Session 2 meeting

**Date & Time:** January 11, 02:17 AM

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Welcome everybody.

We are in a session number two.

Session number two of our class. I'm just reminding you that we have a recording of session one here, which we did on January 6.

Then we have notes which I was making in notepad and then we have voice transcription, which is Basically, whatever I said, it's like 30 pages of my text and it's a

downloadable Microsoft word file in case you might need Okay, so we go to this session too.

And hopefully you did the homework, which includes watching the video on user interface testing and a couple of things, you know along I mean, down below, we have multiple bullets here,

each and every bullet to represent certain things to be done.

And again I'm creating notes for you here in Notepad. We just discussed the Colibri and we said, Thank you very much to our volunteers.

So now guys since some of you are sending money our way. So I just want to tell you that here is the link where it goes But on the other hand,

if you go to your class page, part of that name, blah, blah, blah. Now it has the payment button.

We didn't have it before. It is a kind of new thing um, and So if you go to that button if you push it, so you will come to that same

page and you can pay with Google pay when you put it to them. Shopping cart, you will see more options.

So you can proceed to check out, Yeah, and when you go to checkout, you will have certain options.

So you can go with Zala you can do Paypal. You can do credit card But guys, there are certain priorities here.

Which I put into that file, and I'm saying if you are in us, so is the preferred way of pain.

So in terms of how much they charge us, so comes with no charge at all. So whatever you pay comes to us.

Swift means bank transfer if you're outside of the United States. So you can do Swift. Just ask me what ask me for the data which comes with Swift.

I will send it to you individually. Paypal is the next one. And the worst case is credit card and Google pay They charge us 3 percent if you are in us

and 4 percent if you are outside of us, even in Canada. So money, wise.

It's much nicer if you use Zala okay or swift if you are outside of it. I mean it's okay if you pay any other way.

But if you have kind of choices, so I just want you to know which choices are more preferable to us.

So we are reminding you that here is the school website, Our program website because we have campus and that is the campus website.

Here is the class page which we are using for the first -- 3 sessions we are in Session two.

So for the first -- 3 sessions we are using that page and then you will use your dedicated class page with many, many things on it.

Yeah, and it says here class pitch for the first -- 3 trial sessions.

That is the forum where we put our homework and to register on that forum.

It will ask you. Give me. Why are you here? Random question? Why are you here? What brought you here, so that is the answer?

And what else So before we go to the quiz and maybe some bug report, I wanted to emphasize Why exactly guys.

We look at the user interface issues and prior to that, I just want to tell you there are 3 things which give you the job There are 3 major things we

do many different. You know we cover many different topics here, but in terms of skills in terms of you being able to do something to talk about that and so on.

There are just 3 things So test planning, which means you have to be able to write test cases.

So if you can write test cases, guys, you know what's tasting.

If you know what's testing, you can do right, you can write test this case, but reporting.

Obviously, if you find something, you should know how to report that parties very, very simple. Everybody can do it no brainer and then projects.

We will do two projects in that class and there is an optional project number 3, which you can take at additional cost if you want to if you want more projects,

but talking about the project projects will be in the regime.

So you can talk about testing, which means you have to learn how to write test cases.

You should be able to do bug reporting And then the project That is the door opener.

That is how you get into the door. There's many, many, many different things we learn on the top of that.

So that is the key Okay. Now.

A year ago you consider that February 14th -- 21.

We had a group where they ask you, Michael. Can we look at the job market and see demand and supply in different areas.

Demand is something you can do guys yourself, so you don't have to be very smart. I can show you though, I mean, but supply.

How many people are there since I have recruiters access to die and I did it in a class, and it didn't change much.

And it's not about numbers, but it's about proportions. So you can look at different geographic areas and probably Most of you are covered here, so we have Silicon Valley, Los Angeles.

Guys told me in which geographic area you think looking at that in which geographic areas, the demand supply ratio is the best demand supply the best I mean it doesn't change

where you live, live, yeah.

So where you live and but still no any answers here now?

Hm Texas Oyster Austin. Oh, yeah, oh yeah, There is only like one, two -- 16 here.

16, Yeah, if you multiply it by 16 now 16 -- 9, yeah.

Pretty good one Austin. It's pretty.

It's a booming place.

But guys let me tell you, if you look at the worst one, what is the worst one?

Let me see what is the worst one Maybe what probably Chicago Silicon Valley, Yeah, Um, Atlanta, Georgia.

Let me tell you, Chicago, Atlanta, Georgia, Silicon Valley.

And gc. Yeah, gc. Yeah, including Dcr.

Huge and brilliant market. So what I mean, even if it looks kind of, you know, relatively slow in terms of demand and supply ratio.

They are huge and they are extremely favorable. So just I'm not sure if it is of any help.

Guys do like to see that picture. I mean, it's given to you in that file so you can Yeah, looks Adc is pretty, very good.

The There is one thing in Dc, which makes it very different. From other places it has.

Maybe half of these jobs are government jobs.

And probably a government job is not what you want to be your first job. So it is not exactly what we want you to do.

So we want you to work on commercial projects. We want you to grow fast. Your cell is growing fast and all that stuff, so I would say that is But again,

if you do not want to work on a government project, so there are many other jobs there.

Not to mention that in today's world, the very idea of local market, local job market, makes not that much sense anymore because So far 99 percent of jobs are more job,

same as development so and after we deal nicely with the pandemic, so it's still there are going to be many, many, many jobs.

I mean a huge percentage of jobs being remote Um, on the surveys of it, people show that They really do not want to go back to office.

I mean, like 98 percent do not want to work out of office anymore.

See what happens, so people adjusted to new reality and they do not want to go back to the old older one, so just to let you know that local markets are

not what they used to be. They're not limiting you anymore.

Okay, Do you like it? I mean, do you think it's helpful or do you want me to delete that?

Is it of interest look at you you like it lit. It's okay. Okay, so most of the people say keep it okay?

We'll keep it. We'll keep it Justin Gee guy, Just an kit Um, no Why do we include the user interface and usability testing in our program?

Um, I don't know anybody else who would do that, so we are. But remember we pioneered the software testing in 1994.

And at that time it was.

It was very easy key. To the job market, I would say in 94, 95, 96.

If you learned the rules of graphic user interface or user interface tasting, it was enough to get a job at 20 bucks.

25 So it was enough and but Hm in today's world what it does so number one you start reporting back from the day one.

You get a job And you need time to learn how the application works. To be able to report functionality issues, but you don't have to know anything about how it works

to report user interface issues. So, which makes a very good impression. You just started today and you reported 20 bucks today.

So it helps you to make a good impression. It helps you to keep the job number two.

Few people in that world have any idea about the user interface rules. They have no idea about that guidelines, you know existing.

So you bring certain expertise which other people don't have so kind of unique contribution to the quality of the product.

And it's easy to pick up. You don't have to be a rocket scientist. You don't have to be an engineer.

You don't have to be a kind of strong power user here. So you get some marketability and some instrument for keeping the job.

You know for impressing people and it costs you nothing clearly, and while doing that we still report bugs.

We still develop some test cases in parallel, so I consider that to be a very helpful thing.

In understand him. What software testing is about Okay now, guys Okay, we are switching to the we are switching to the quiz.

Which you are supposed to do, and some of you did. Where is the squeeze, okay?

Let me refresh So how many people did that 99 out of 99, maybe 15 did it within the last half an hour which is not the best way of doing it.

Okay, let's still go there.

Let's go there and we are going around the same a set of questions and answers.

Interview questions and answers, so number one user interface standards and guidelines are established by who this, so we have Microsoft 36 per person guys Microsoft does it for windows applications, so

you cannot say it's 36 percent. I mean Microsoft, does it 100 percent does it? For specific type of application or windows applications.

It's done by Microsoft but can present us government 100 percent when it comes to web applications, web is not owned by any private company.

Or public company. So then if it is not owned by anybody and Uncle Sam steps in and says okay, I'll take care of it.

So it is 100 percent taken care of by Us government when it comes to web applications.

Industry best practices industry best practices will eventually incorporate will be incorporated into the rules in the guidelines.

It doesn't happen in one day. First those industry best practices come to existence, then they kind of proliferate.

They become common, very common, and then they become part of the guidelines.

So, um, policies of your employer.

What is the question? The question is where the guidelines and standards are coming from. So definitely your employer might impact that your employer might say I don't care about user interface

at all. Yeah, it's possible, but it's not a guideline.

Um, but That is how your company operates. Yeah, they might do that.

International conventions Thanks God, no international conventions on user interface. And again thank you very much. Stanford University.

They have nothing on user interface. I understand 5 people respected Stanford University up to the level of kind of believing in their interest.

They have no interest Okay, so different organization. Different entities are responsible for guidelines for different type of application Microsoft for Windows Government Us government for Web Apple for Apple Products Google

for android product, Anthon and applications define regression testing.

We actually talked about regression testing. I believe we did talk about it yesterday, but let's see what we've got.

Making sure that software error was fixed Yeah, just two people. It's wrong. That is wrong. It's called verification of fixed bugs.

In reality, so it does not regression test, making sure The software is not broken while fixing bugs.

So we are saying it's not because of exactly in which exactly way we modified the software.

It could be fixing bugs. It could be developing further the application, so it is not about fixing bugs.

Making sure that previously fixed bugs are not back and new release.

Um, there is a testing like that called testing for returning bugs.

It's kind of rare one, but but it exists because in certain situations, bags have a tendency to come back after being fixed in the while Let's say you fix them today

and it comes back in a week. For two weeks, so there are things like that, but it's not a regression testing.

And then we have 83 percent making sure no new error. We're introduced while making changes to whatever change is good.

Retesting fixed bug reports by execution steps to reproduce Well, that is pretty much how you make sure the bug is fixed.

But it's not a regression test. Good, so making sure regression testing, making sure that no new errors were introduced while making changes to the code.

We have two people commenting here. Let's take a look um, partial rotation of modified. Yeah, that is a polished stuff.

Guys. We do not cap We do not like Cappy Paste. We want you to memorize things and deliver them off the top of your head.

Not by Cappy, Priest or anything What do you prefer white or Black box testing?

That is a kind of positioning type of a question. It's very common for an interview by the way, so they want to understand.

What is your interest?

So if you say I want to do White Box testing It means two things First, you are not interested in Black Box.

You have to understand guys, if you say White box testing It means you are not interested in Blackbox testing.

They will not consider you for blackbox testing position anymore. If you want to do white box testing, then the question is, are you qualified.

Do you have skills necessary skills, which you actually don't have? I mean you It takes lots of time and effort and not everybody can do white box testing.

So if you cannot do White box Station, but you tell them I want to do White Box Station.

Most likely that opportunity doesn't exist anymore.

So when you are answering a question like that, you want to keep all the doors open.

All the doors open if you, if you have to shut one door here, you shut the white box testing door because you pretend to get the black box testing position.

So white box is kind of in the skies, you know. And black box testing is here just in front of you.

But ideally you would try to keep all the doors open and you're saying as most of you choosing here.

I want to do black Box But I would like to get involved into White Box testing as well.

I mean, if there is an opportunity to sign me in Here we have another one which has black box, which is correct.

But it is what I'm trained to do. It's a little bit miserable. It means I would rather do something more glorious.

I just I'm not just capable. There is some negative connotation here.

Okay, so black box, but we keep the second door open to us. And but in case you have an opportunity, I will really appreciate the opportunity to get into the white

box test incubation.

So we have 7 comments here, okay?

I haven't tested much yet, so I don't no miserable you are saying I'm nobody You don't want to be nobody.

Still, I'm decided not enough knowledge again.

You don't know what you want. You don't know who you are.

You are saying I don't know enough to do it.

Both ways as far as it follows allows you to seize the issue from Consumer point of view developer skill.

Oh, The question is, What do you prefer? I mean, if you have a choice, of doing one or another one.

Which one would you would you choose? That is the question So you have to choose I haven't done any, but I would love to master both I haven't done any.

I don't know I'm open.

I can learn I can take a class in city college. It's all miserable. You do not want to look miserable.

If there is an opportunity, I would like to get involved in automation.

There was no question about the tension. The question was black or white.

A damnation could be done in in the Black Box Way if you use tools such as Selenium web driver.

For example, that stuff is on the black back side, but but you, you're not answering the question, which is not good at all.

I'm looking for blackbox position, but I would like to get involved in the white Box testing as well.

Eventually, blah, blah, blah boss is not an answer. The question is which one? Reach out of two, yeah, Okay, what is quality?

Um, Yeah, I've got that question myself when I was going to an interview. So what's quality and got and Okay, so there is a story to that question.

Um, quality is to make sure the application is mittens requirements.

Okay, guys, I did teach you here. In that class that quality has two different perspective. If you look at it from user perspective from customer perspective or you can you look

at it from a quality assurance perspective. So that quality is to make sure the application is meeting the requirement.

And by the way, there was nothing about software qualities. There was nothing about application quality. So why are you talking about application at all?

So and you're bringing just so first of all, you're not answering exactly that question. Secondly, your answer in the question from the position of someone working in QA but We discussed

last time that it's much better to beat the competition rather than comment with the goods so better answer is better than just just correct answer.

So if you bring both perspectives so consumer perspective and perspective, that answer will be much more complete, and it will make you much more a difference.

I mean the reader. It will make you special compared to other people apply into that same position.

Customer satisfaction.

As infection is consumer perspective, subjective terms, okay?

Uh, quality is customer satisfaction, but from her perspective, it's How close the actual product is to intended product?

Yes, So that is the answer we pretty much want you to come with. We want you to come with both with two perspectives because we want you to beat the competition.

We want you to make an impression of being the real best. Okay, so do not resist guys.

Learn what we tease you and you're going to be the best Yeah, Unfortunately, most of you are staying on one side or another site Not really.

You're not making me happy with the tensor here, okay? Developers tests are quote what software testers are needed for and it looks like we have something Yeah, developers, Tester.

That software testers are needed for so guys regression testing. Developers have no time for regression. It doesn't mean they don't do it at all.

They might do a little bit, but if we talk about solid regression testing, comprehensive regression testing That is on you.

If you don't do it, nobody will do it okay. That is why testers need so developers test their for sure.

They do test their card But regression testing is something they just have no resources to do regression testing.

Negative test. Same thing. They do not have resources unless you do negative testing. Nobody does negative testing And then testers are looking at bigger pictures.

They look at the software from consumer perspective, so they do not look at this module or that module because developers develop certain units of code As a developer, I know how

that unit is working how that unit is working, how people are going to use that software, so my units are working, but a tester is looking at much bigger picture a

much broader picture. That is why That is what testers do which developers do not do. Let's see what you answered guys testers are needed during an application development to ensure that

there are no bugs or other issues.

It is very good to understand the question because if you do not understand the question, so it means I mean, it's not exactly how you get a job, okay?

The question was not what testers do. The question was why testers are needed if developers test their code anyway.

That is the question nobody is asking you what testers do developers do lots of testing now why we need someone else who does testing.

So here you just didn't answer the question at all.

Okay, it wasn't the big deal of a question. Actually perform regression and negative to contribute developer with distinct I don't know what that part means.

At least regression at negative, OK? Needed because they are establishing organization test. Plain back trading bug reporting.

That is, that is true. That is true, but that is primarily about software testing department. So why do we need Software testing department?

Why do we need Software testing organization?

That organization is needed to create certain processes Yeah, But when we compare developer to a tester, So why?

Why do we need a tester If developer does the testing, so one person is testing another person station?

So we just wanted to emphasize specific types of testing So I'm not saying your answer is the wrong.

No but it is It is an answer to different questions. That is the answer to the question.

Why do we have a department versus what is different in testing done by testers. Also testing done by developers, which is Basically the I testers do regression testing negative testing, looking

at bigger functional bigger functional areas. Okay, good developers do partial testing. They don't Hi, spend their time to testing.

They do spend huge time to test to test more time. Need to go blackbox testing in this job.

For software testers.

Doesn't answer the questions the way we wanted you to answer that question, so we don't do not really need your intuitive kind of contribution.

We need you to learn what we teach And I would say there's a huge difference between your intuitive based on pretty much nothing, you know.

A vision of things versus learning from people who have been doing that for We got 3 decades of the they didn't testers are more focused on different types of testing from

user perspective. Negative for regression.

Negative and regression testing are not necessarily done from user perspective.

So basically what you just said that negative and regression testing are black box testing Dan from user product, it is not true.

It is not true, so you entered a certain perspective here, which doesn't belong here, and you have no reason to do that.

Why are you making those assumptions testers do most of the negative testing Okay, most of the regression testing test software application at system level you can.

You can say that, okay? Guys keep going, so you understand where we are.

What is Gray box testing, so we have white box testing. We have grey box testing and we have, I mean, white Box, Black Box and Gray Box.

If we go to the forum where we have interview questions answered in a kind of elaborated way.

Let's see what it says about Gray Box. It has black box Grey Box. Yes, let's go there So it says that is the most elaborated definition.

It says gray box testing is using structural design and environment information. Complete or incomplete.

To expand or focus blackbox testing and to enhance testing productivity by using appropriate methods and tools So what you learn from this stuff is at the minimum that black box Grey

box testing is an extension of Black box system. Okay, So when you do blackbox testing, if you get certain tools which allow you to go beyond the user interface, that is

how you do gray box testing. So If you have certain tools or you are using certain methods, for example, you might write a simple program.

Piece of code, or maybe Sequel statement so extent so gray box testing is an extension of black back testing.

Don't ever say it is a combination of black and white Don't ever say that I've seen that on Wikipedia.

It is dead wrong. Anytime you go to the code, it is white box testing see what I mean.

It is a white boxer. You cannot combine anything Um, so using methods tools is specifically oral languages.

You cannot just Somehow, with no additional resources extend the black box testing yet White box testing.

You need something extra programming languages, certain tools, and so a lot of web testing is done in grey box areas through when you test guys web applications.

Lots of testing will be done in a grey box testing area. We have a project here, which you will do with Jane and so you will use You will do some

rest. API testing. You will do lots of nice things about this stuff. Let me see if we have any anything on Gray Box now.

Oh yeah, we have in your in your not, but So extension of blackbox testing, yes. Some extra knowledge is needed, yes?

A lot. Most of the web testing is Grey Box testing tools or programming languages will be used And then we have 3 examples I can cure.

Move them a little. Yeah, we have 3 examples. Example number one.

You're right and execute sequel statements so Sequel statement is a structured camera language. Structured language is the language you use to send I chose the database and then database returns you

sum which you asked to return So you're right and execute this sequel statement against the database to validate the data integrity.

For example, you register at Amazon Dot. Com.

And while registering, you provided your information, your first name and last name your email. Your. I don't know social Security number.

Your credit card number God knows man types of information And that information is stored somewhere in a record in a record database record.

So what you do? You write a sequel statement and you get out of the database. It comes to you of what was actually saved So you know what was supposed to

be safe. When you enter that, but God knows what was actually saved. I mean there is no guarantee what actually saved is exactly what should be saved.

So that is called testing valid data and data integrity. So is the data you know, in place, not corrupted, not modified.

So that is an example of grey box testing, so you do not use user interface on one hand.

On the other hand, you do not deal with any source code of the application. So it is in between.

It's in between Black and um, and there is nothing with Whitebox testing. I mean, you don't touch the call.

But you have certain tools. You have sequel Statement Sql as a language, and you have certain tool in which you write and execute the sequel statement and so And you have

some knowledge, partial or complete of how the dating structure where it is valuable, and so example, number two analyzing or parsing log files.

Imagine when you buy a book on Amazon There are 3 servers server is basically a computer.

You can think about it as a computer.

There are 3 computers, servers, which record certain data So, we sure were applications were database here.

We will talk more about that when it comes to testing web applications, but so far you just have to realize that there are 3 computers run on 3 different Or maybe

more than 3 applications and whatever happens gets recorded in a log file. Log file, so then since you know what is supposed to be recorded So now you can write.

You can open the file and just search Europe, but the log files are huge. I mean they might have millions of lines.

So instead you can write a short program. For example, in Csharp and coral, whatever language you know, so it will go through the entire files and find exactly what you want

to find there. For example, that is a grey box testing real Tpi taste increase, postman. That is what you're going to do in our class.

Postman postman is a tool Um, there is some data exchange between web Server and your browser.

Um, so some information goes back and forth and and postman allows us to see what exactly goes there.

What goes there at what comes back And that is that is another example of Grey Box testing.

Okay, guys, tell me if you might not have the complete idea of what a great box station, but tell me if you have some idea, at least some idea So it

is not black Box. It is not white box. It is an extension of black box It is never a white box no ideas to complicate it.

You do not very clear. Some people say it's clear some people, okay?

Some tasting guys. Some testing has nothing to do with user interface.

But at the same time you don't have to go to the source code. So there are 3 types of testing So on Black box, you just pretend to be a user

white box. You work pretty much as a developer. You work with a source code and there is some area which is neither one So you don't have the interface to use

and you don't. You don't have to go to source code future You'll just use some knowledge.

Maybe some protocols Maybe some sequel, maybe some, you know programming cancer methods you can use to debug software and evaluate bearable.

What are you talking about? I mean, I mean really It is not answering my question at all.

Gi bag, so you don't have to debug software love I mean the Bagan software will be clear.

Clearly the Whitebox testing. There is no grey box testing there.

Oh, If Black Box Bell book testing is without using source code, as such as the definition of black bug testing, so black bug testing is about not dealing with the code

at all. Would all testing not involve in source code? Can be considered a gray box no black box testing black box testing has nothing to do with source code, but it

is still black bug testing. It's not gray bag test.

In Gray box testing you do not use. You do not work with user interface. Man Okay, guys, API means it's an abbreviation.

For standing for application programming interface.

You will come to the concepts.

We have a couple of places in our course where we deal with APIs closely.

It's going to be in our project. It's going to be in estimation.

Part of the class, so you will deal a lot with Ap. Okay, I'm just giving you certain certain examples which you might better understand later on but at least we discussed

that I kind of made some preliminary notes, yeah, Oh okay, we keep going no here so gray box testing.

What are you saying? Using the complete incomplete information to expand or focus blackbox testing to invest testing productivity.

Yeah, that is a copy paste stuff. I told you I do not like copy paste extension of blackbox stating when certain tools are used to test sorter.

Okay, Grey box testing is using design environmental functional information about software complete incomplete again. As as close it is to the Kappa staff, so it is not what I want.

I mean, I really want you to talk about it in your own words. But at least at least if you are using our definitions, at least do not copy paste.

Do it or not memorize it. But no happy place Okay, keep going What are the common stages of software development life cycle?

Last time? The question was what is the software development life cycle and we said It is a conceptual model used in Project management.

Where a software development process is um, kind of considered in stage, yeah.

In stages.

Now and that one is about Waterfall software development lifecycle. So agile is is slightly different.

So what are the common stages now? The question is not what is the software development lifecycle, but what are the common stages?

Of software development life, and again, common doesn't mean they are everywhere. And it doesn't mean that stages are limited to the common stages, but something most typical, which exists in many

situations.

So what? We have planning analysis, design implementation implementation means coding programming. Testing and maintenance one, two, 3, 4, 5, 6.

Yes, I like it. I mean, it's a good one.

What do we have in our notes here?

What are the common stages? Yeah, what are formal analysis requirements?

Design coding testing maintenance It's pretty much pretty much same thing.

Um, in waterfall model, the most common stages are analysis design development, Okay, Analysis requirement, architecture. Yeah, Architecture is another word for design.

Yeah, implementation is another word for coding.

The cementation documentation, I wouldn't say documentation is is a common stage in today's world.

Um, I used to be okay. Okay, so guys, typical problems in software requirements are And we actually answer that question.

But let's see what you are saying. Okay, we give you choices ambiguities. There are 3 actually ambiguity is number one So requirements could be ambiguous.

Incomplete. Yeah, that is the most popular, but incomplete, ambiguous means You might interpret that in multiple ways, not uniquely identifying the thing so there is no uniqueness.

You might kind of have different interpretations of that um, contradictory 67 overall guys, I would say is the 3 most popular.

Here are the correct ones, so software requirements could be ambiguous incomplete and contradictory.

So that is, that is what software requirements might be in terms of what kind of problems might be there.

So when you look at my suggestion to you is guess When you look at requirements Do not ask yourself Is it possible that There is some ambiguity or some incompleteness, or

maybe some contradictory staff here it is there all 3 are there, guaranteed That is what you have to understand as a mature tester, and someone who is naive, you know, you

might say, What if you know what if it's so ideal because humans are so ideal? They are created by the god you know Not really nice.

So we are not ideal. We make mistakes.

We do not pay attention to certain things and ambiguity, incompleteness and contradictory requirements. There are all 3 are there.

You will find them. If you pay attention Good. What do you have here? Let me see Um, well, no, no What do you have a?

Actually you did. Yeah, you did pretty much the right thing. Yeah, Who is better, tester, Yeah, who is better tester the one who submits more bug reports the one who has

more bugs fixed So actually two most popular ones. Better test, okay? Now the question is, how do we know who is the better test.

How do we decide? What are the criteria?

And if If you say okay, the one who impacts the quality of the product more is the better test Who is who has a stronger impact, so the impact doesn't come

from bug being reported. Impact comes from bug being fixed So the someone who has more bugs fixed has so created more impact and rather than someone who just reported reported reported

bugs and nobody cares about what he reports and nobody wants to fix it, and basically it's a waste of time and it's not just a waste of his time, but he

is also a distraction. You know other people from there work to look at his, you know.

No, are you bug reports?

Kay so, and this is pretty much what you jets or 71 percent good What is ad hoc testing?

I mean, if you guys if you come with an assumption assumption And this assumption is all bug reports are equal in terms of importance in terms of quality in terms of

in all the aspects of life. Yeah, if all the bug reports are equal, then whoever reports more bugs, you know.

Um, has more impact and the probability of the bug report being fixed doesn't depend on anything.

I mean, they all have the same probability of being fixed. So if you make all those assumptions So then it's just about quality.

Quality quantity of bug reports. But if you admit that bug reports are different in their quality in their severity in their impact on the quality of the product overall and how

difficult or how easy it is to find that back and so on.

So since bug reports are different, so we are saying okay? Are they fixed or not?

What is Ed Hock tasting kik Let's see what you are saying.

Oh, the most popular one is 53 percent a simplified form of exploratory taste.

It is true. It is true. Um, It is true, okay? Let's talk about Sed Hoc test and go to your Yeah, go to your notepad file.

Exploratory testing, so we are campaign exploratory testing and ad hoc testing, so we know that Ed Hock is a subset as a simplified form of exploratory So exploratory testing.

The name speaks for itself. So we are learning. We are trying to get a better idea of what the solar is about.

It's not that much about finding bugs, but it is more about learning So it has 3 stages stage one.

We're planning And again, it is a very simplified form of playing.

What is this Let's click on that Okay, and then you actually creak And then something happens.

For example, it crashes you say hmm. Look at that. So you learn something So we have 3 stages very simple ones.

No sophistication at all, and they are going one by one. They're not helping at the same time.

They are one by one you plan. First. You execute after and you learn thereafter.

Now Ed Hook is slightly different. It has all 3 stages, but now they are happening at the same time.

So you plan you execute and you learn at the same time.

It used to be called Man citation because it kind of resembles the behavior of a monkey, but guys it is just resembling because monkey cannot plan.

Monkey cannot lure monkey, just execute Um, so it used to be called monkey testing as a slang term for many years.

But now guys, you don't do that because now monkey testing and you're gonna loan. That is a legitimate name for some mobile application test So monkey testing is not just a

link. It's a cure now. So don't call ad hoc testing monkey testing, but it looks very Hawaii, you know.

Looks like there is no meaning and about what this person is doing, bom bom bom bom energizer bunny, you know bom bom bom bom bom But Wes exploratory testing people find

lots of bugs and amazingly, If you go if I go with you to Amazon Dot. Com, or just right Amazon Dot.

Com and I type we have to take books. Yeah, devices. Two books are books, okay? We have books and we say exploratory Explorer or testing software is okay.

Exploratory software testing. He amazingly, guys became books on that stuff.

Guide to advances that sponsored Sponsored, okay? Look at that exploratory software testing And by the way, Mister Baker, I mean, is a big name and software testing.

He is local, he immediately. He used to be local here to Silicon Valley. I did go to his event a couple of times, a main gensan.

What else I don't know the Chinese staff um, Mm, maybe more to, yeah, Okay, Explore reduce risk and increase confidence with Exploratory Testing another one, 2013 Maybe more, maybe more.

I don't know Um, so my point is guys there are books on exploratory testing. It is not something which is obvious.

Intuitive. Ineffective makes no sense and this and that It is a very kind of interesting concept.

Simplified time of exploratory testing in which test plan execution opinion at the same time.

The main person purpose is to explore, okay? I like that one random. No playing It is not true.

There is some playing.

It is happening at the same time. You know, as execution and learning, but it's not that much random.

I mean you can. You cannot call it random, completely random. It's not it is. I mean, it looks like yeah, from outside.

It looks like, but it does not random testing without documentation documentation guys. Why are you even talking about documentation here?

You might have documentation and still do export test plan execute random use of software functionality a simplified form of exploratory testing to our planning execution learning our cop at the same

time. Brilliant Okay, Um, clean clean execution happens at the same time, okay? I mean you are okay.

Let me see if we have anything in our not bad, which we didn't touch today.

Um, ole application under test. It's an abbreviation um, typical, very common abbreviation, Aut application under Test subset test.

And gave us a card Yeah, So far we've covered pretty much what's in our file and we still have some time a I mean you have choices.

You can say, It's enough for today because we did it for an hour. Or you can say Hey, let's go and do some some tasting.

Let's write some bug rip ports is apt.

More Okay, okay, More for the money, yeah?

No, my okay. Let's work. Go over the bugs, okay? Okay, let's do it this way.

Um, last time we did it We wrote some bug reports here.

Some bug reports for energy to come, then we are coming with some rules of bug reporting.

I will remove them um, Happy path. I explained what happy path operation bullets for today's activities.

Okay, I'll keep it so we will do some bug reports. Okay, let's see what we've done before and that is the application with test.

Yeah, Energy telecom. Here is the application, which you practice with You've watched the webinar on user interface.

Issues and we have some least some check rates. The most common frequently happen in user interface problems, like 5 or 6 of those, and we asked you to deal with that

form, focusing on user interface issues, not functionality. It does have functionality problems, but we said don't pay attention to functionality.

Just focus on user interface. And let's see what we've done last time. So we can continue starting, um, where is yeah?

So last time we said, Hm number one in search my invoices section. All the labels should have a column at the end Yeah, the contact information part of the beach.

It's his first name last name. Street address, City State ZIP email phone honestly energy telecom. It was about energy combat a second Yeah, sure, No, it is not energy to Congress

No, no, no, no, no I'm sorry. It is not that one bug reports that one is to.

I'm sorry. So, okay, let's go to toe today they have two. Actually, we have to go to toilet totally It's going to be Yeah, Porto, Dot com.

I believe something like that.

Yeah, so that is the page Can you imagine guys? If you get to the team for an interview, they still give people that thing It is an actual page given to

people who come to Oracle for an interview, specifically the Toile team of Oracle Oracle tortures that company at some point, so And it says in the church, my invoices section search

my invoices. We have labels, invoice number customer purchase order and from amount label does have column here.

Can you say It does have colon, but the rule of the game is And you've learned that if you watch the webinar for Session two and the rule of the game

is each label should end up with the column.

So you might report that problem from another perspective, you might say inconsistency. Inconsistency is the big word.

It means they are not consistent. They're not done in the same style.

So you might say inconsistency either. Remove that Callen from here or give a column to all the labels you would do that if You do not know the rules of user

interface.

But you do know the rule and the rule says each label should come with a column.

So that is why we have that bug reported says in search my invoices. Yeah, it's called search pine voices in search pine voices and I put it in double quotes.

Which means it's not just words. It's a name of the control name of a certain section button and in search my voices section All the labels should have a column at

the end, so basically that bug report is of I. It's not a problem bug report. It's a solution bug report.

It's a solution bug report, so a rule of bug reporting bug bug report is wiser is off either solution or problem Hi, so both are fine.

I mean There's nothing wrong in solution, bug report or problem bug report. The thing is, if you can make it a solution It is more valuable, so you save time to

developer who doesn't have to research it anymore.

But if you're not sure it is a solution, there is a solution. I mean, unless you are 100 percent sure, right a problem bug report So problem back report will be

kind of inconsistency, so you decide But I'm just telling you there is some inconsistency, so section should have a column.

So that is the solution. Do it this way like it incorrect number of results per page.

11 instead of 10 results per page list book So we have results per page here, says 10 So give me 10 results per page and in reality, it has 11 So,

one, two, 3, 4, 5, 6, 7, 8, 9, 10, 11 So the bug report says we have 11 instead of 10 good number 3 inconsistency in date format in voice date.

Field in Voice date field is here in the voice date field okay in voice data. Field 6, 5, 2011, 6, 5, 2000 til 11 versus invoice date column 22 August 2011

invoice date column. Okay, Look at that. Compare this format. In that form. So here the month comes in letters.

Then we have dash and dash to separate the month and here and here we have slash to separate day month and year, so they are not consistent.

Both formats are valid formats. They are just not consistent.

Guys so far So far, guys, do you understand the complain? Do you understand? What is the problem?

Okay, some people are complaining that something is not clear guys, whatever is not clear, Ask me after the class if it is something bigger.

If it is a small thing to just ask me right now and I will tell you you're not supposed to be perfectly clear 100 percent clear, you know, from the very

first minute of the class it comes with some exercise, you might watch that video another time and the It's a cake again.

There is nothing complicated here. We might be going too fast.

Maybe. And we have for faces. A small crowd here. How big is the crowd? The crowd is took over 200 people, so 218th at the moment, so we were all having

different kinds of capacity in learning of new information, but again you have your own path. You don't have to be doing it with the speed of someone else.

Really. Most of the study happens when you are not in the class. So that is how it and we are here to help guys.

Whatever specific questions you might have, just ask us um, OK, go through energy to complex. Hey, we have two of those we will okay.

Let's switch to energetic comment. 10 minutes, okay?

Will we use Jira to ride bag rip? Oh, yes, Oh yes, absolutely. When it comes to the projects, you will use zero absolutely here and there was one more here.

Num first cell in status column Please jacket misspelled jacket is misspelled any place Yeah, that one -- first column.

Yeah, first cell in invoice Oh no, I'm sorry rejected. There are two places where it is misspelled, so one is here.

Rejected that another one is here in the name of the in the name of the column, okay?

Let me see guys what you've done.

Um, in the forum, so we have. I'm sorry Okay, if we go to online, that is where you do your homework.

We have energy telecom project end Actually, I do not see anybody working with Orange um, Interesting.

Okay, you didn't do anything for okay? Let's switch to energetic and arteria com. Here is your here is your class Okay, some energy.

Tell you come Let's go back. Yeah, that is the energy telecom.

And then Let me go here. Bug report story.

I get crap Hm bug forts energy community. We have half an on the G. Telecom, so you didn't do much with go there, okay?

Today is simpler. It's all about user interface.

Okay, keep going No, yeah, so So what did you report? I will go guys one by one and I will take one bug report.

For one person, so we will not go through all bug reports of the first -- one -- 3 days ago.

Um, Okay, or ZIP mean you item accept letters your success and only digits. Okay, let's take that one Okay, guys anything no Hm Um, when you look at the ZIP menu

item, just 3 words ZIP mean you item anything you want to see? Do we have ZIP menu item?

Easter menu item here. Called the ZIP.

It is not the menu item, guys. We do not have menu items. We do not have any menu on that page menu item will be here when I go to let's

say file again. Those are menu items, new new window open, but those are menu items.

If you go to porno Dot, com.

Let's say that net of botnet, our program page and it comes with with the community. Then we have menu items, contact us menu item videos, menu, items, testimonials, menu items.

We have menu items here, but we do not have any menu. On the Energy Telecom page, Just no menus, ZIP ZIP is the text field.

Yeah, ZIP. Or just field ZIP field. Okay, So what we like is that ZIP is in double quote.

He says okay? Means specific control on the screen accepts letters accepts letters Yeah, but you're saying what it does, Buggy port is pointing to the conflict So something which happened happens

instead of subject, which should happen Yeah, so the ZIP field accepts letters Instead, instead wolf Bean Oh, digit only It's only so I am phrasing.

A little bit. Field accepts letters instead of or being digits, only file safe guys. Tell me Is that a solution bug report or is it a problem bug report?

Is it a solution bug report or problem? Bug report?

Solution or problem. So problem Um, okay, okay, you can say it's a problem. In reality guys, what you said is make it digit.

Only make sure it's digit only so basically, it is more about solutions and the problem I mean you can interpret that in different ways.

In different ways. It looks like a problem, but in reality it is about solution.

Solution is provided here.

Okay, let's go to the next one. See, It's all relative more default input focus, guys, default input focus is a key if you have something which fits to your screen If

there is a webpage and God knows where where that end of that page, you do not see that page default input focus makes no sense.

It should be completely on your screen. So you understand what's going to happen if you um, input.

Oh, I'm sorry. I apologize. I was thinking about default button. I apologize. No default input. Focus.

Default input focus would help see what happens. We'll just let me refresh I refuse. I start typing and it doesn't type at all so and I should have to click here

to give input focus to that field and then So default input focus, default input focus would help apologize, so I was talking about default button.

Yeah, I like it. So let's take it from here. No default input focus.

Um, Now the question is, Do you have any suggestion or any kind of solution like stuff for that?

So you can say no. Yeah, you can say no default in good focus.

Um, on the page on the page and you might say here No. What is the name I'm sorry.

What is the name I've first name, Okay, First name first thing Mhm first name field.

I might be a good candidate So you're not exactly saying do it this way, but you're saying look at maybe, maybe Maybe, which is nice, so I'm coming with the proposal

here. So which might make the developer's life easier? Or at least there is something to consider here Um, okay now, guys You probably remember that when we talk about software testing

and I will go to the previous session here.

When we talked about software testing, we No. What is it?

No, I'm sorry um, no September 6th.

No online. I'm um, boom boom, yeah?

When we go to the previous session, um, we looked at what is so for taste. Do you remember Um, is it here now?

We talk. That software testing is about verification, validation and error detect detection. Maybe not in that way.

Verification validation error detection verification means we make sure that the requirement is properly implemented. Validation means we're sensitive requirement.

Makes sense now coming back to that bug report, which we just did no default input. Focus on the page.

Uh, can I say it is kind of about validation? There is no requirement which says make it put it there.

Yeah, there are user interface rules. Which are not exactly product requirements. What do you think? I mean, does it make sense to say that default input focus requiring the default input

focus is more about validation, Looking at the kind of requirements. You're not saying anything rather than implementation of requirements.

What do you think validation again, guys It is open to interpretation. I'm just trying to kind of um, no involve you in that kind of thinking.

Process. No default input. Focus on the page.

So if yours name field might be a good candidate.

To accept default input, Fox. So you open the page and it's here. You start typing and it goes to the for its name.

Okay, Good. Keep going to keep going.

Um, um, button, Clear inactive displays. Pop up error after tap.

Our God Oh God, Yeah, okay, Interesting. So button clear.

I would still put double Cd here. But clear Problemen inactive Let's go to the bottom, so a button clear.

It's perfectly fine, so I can push the button next you so. And there is no term active when you talk about the button.

Or user interface element user interface, Aliment could be disabled or enabled If it is disabled, I cannot use it.

But that one is not disabled. I can creek here I go back. I can click here, so they are nothing is disabled here number one What did you want to say?

I mean, really, when you said it is disabled. It is inactive unreal It is perfectly active, even though we do not use the word active toward buttons.

So displays pop up error after test So if your step is something you do on your mobile device.

In windows applications in web applications, there is no tap I mean it is specific to mobile applications.

Number one, so the display pop up error Okay, Okay, guys, let's talk about that stuff now.

We hell no errors. Oh, let's say error. Okay, errors.

Let's see messages again. Let's see messages So we have something which is error message.

Samson which is a warning message warning music. What else error warning Um, I don't know. Let's see if there is more coming.

So what happens when you clear the button When you push the button clear Okay, color. Then error message comes error message comes, and when why in the world you call it

pop up. I don't know. I mean some error message.

You can say that error message pops up but it is not a pop up message, so pop up message is a specific type of window.

So there is some message, okay? And when you look at those messages They might be specifically warning messages.

Okay, let's put it that way. Warning messages could be error messages could be confusing.

Water in terms of bug reporting, confusion or misleading Mm So you understand the difference, so confusion means you have no idea what it says.

Miss Legend means it asks you to do something which makes no sense, which is not going to bring you to the solution or something like that.

So we have. Definitely what we have here is an error message. And that our message, I would say it is both It is misleading, and it is confusion.

It says here invalid data request God knows what does it mean? I mean, what invalid error 17?

God, how many more errors they have for me? I mean it's really confusing and then there is a part which is decision call technical support or restart your computer.

It is totally misleading stuff.

So What?

How I would rewrite that bug report? I would say, Yeah, Hm, okay? Let's say push Oh button clear.

Okay, let's say bush Uh, you do not click buttons. You push buttons, so even if you click on the button, So that is how you push them Now you click on

the pixel on your screen, and if button is behind the pixel where you clip click on, so then you push the bar.

So push button clear, then what happens then?

Misleading both confusing the in message pops up. Yeah, you want something to put it up at Nothing huh?

Is cleat with it That is how I would write that specific bug report so guys, just making sure you understand what I'm doing, You understand the logic behind my thinking I

email field doesn't allow a special. That is not the place where you write bug reports. Okay, so you had to write bug reports to that file to the forum topic.

You're you are with me. Okay, guys. Good again, it is simple. And remember, you have to know 3 things how to write this cases how to write bug reports and how

to talk about the project.

And all that common is coming and I would say two months from now guys Technically speaking, you can ask for issue and go to the job market in parallel with finishing

the class, we really support that So the sooner you go to the job market The sooner you get a job that is my vision of that.

Okay, so I would like you to see you on the market rather than just being in the class, so going to the market going to the class that is that kind

of ideal way Um, what's it? What the hell is that so my okay, it enter numbers in all the required field?

It's like steps enter numbers in all the required fields enters specific speck symbols not required field center.

Is possible to inject Javascript injection Uh, you are not within the guidelines, which we have. You didn't even look at the bug reports reported by other people, and so you basically

fall out of the kind of the paste we forego um, the button submit can recognize only 3 wrong inputs.

I have no idea what you just said.

The box buttons do not recognize anything button has no a function of of recognizing buttons cannot tag the box of textbooks of button submit and clear has different sizes.

Okay? Okay, different sizes. Let's take a look um, Yes, if you look at submit, an clear obvious is a submit button.

The word submit is has larger characters at the same time. The size of the submit button and the size of the clear button are different.

So I would say I will put in this way.

Um, where here make reports for energy to record, I would say number 4 number 4 Oh submit And there Lear buttons not consistent insistent in front fund size and dimensions Okay,

Okay, keep going Hm books, books, books, um, Hey, State books got incorrect Bc State monkey Let's try that one number 5 So what is the nature of the problem?

State state is the least box here.

State is the least box It has many minor states And some of them are not United States States.

So for example, the one mentioned here, which is what Bc, Yeah, Oh, Bc. Let's see British one We have a British column which doesn't belong there.

So how would we put that in words I would do it in a stronger kind of format as a solution.

A state least box state at least the box at least books But hey, you move Yes, hit you move Bci.

That's all I want I mean be straightforward, so you want to remove, you know it doesn't belong there, so you are coming with solution bug report.

Very straightforward So bug report is not any sake. It's just straightforward, okay?

Um, It's bull state drop down mean you have no option for Puerto Rico, Puerto Rico is not a state of the United States.

Sorry to say that, but it is not Okay, um, Uh, Indiana, yeah, Indiana is misspelled Okay, um, Let's deal with that one.

So number 6 um, state, Ste drop down is still drop down menu. Oh no. Oh no It is not a menu.

I mean it. I mean that stuff is, well. It's not a menu.

Number. It's a least box number one, it might be dropped down. It might be of fixed dimensions that drop down.

That thing really makes no difference, so I'm saying again. List books. Listbox State List box, okay?

You please again, Very strong garbage. You please books, books no a in the visit India because we don't have to explain anything very common with a very simple, very obvious kind

of request.

That's it.

So guy so far guys, are you with me?

No again.

You are looking at how I do the bug, and I do not really think much. It's my skill.

You know it is internalized. I don't even think how I do the bug. That just happens.

When I discuss the bug when I explain the back to you, I already do that in a bug report language.

Because that is my natural language of explaining. What is the report about British Columbia has a ZIP in a combination of letter and novel.

British Columbia is not there. I mean it is not supposed to be a Canadian state. It is all for us states.

UK We have requirements for this stuff and you will see them later on in future classes, so we will come back to that application at some point.

Um, Oh, Good, okay?

The we have to rise this report on 4 more bugzilla guys. Baila is just kind of an example, something entertaining stuff, so I will probably remove it since it's not working

reliably because it works to some people. It doesn't work to to other people. I believe with complete means, there is no value in Bugzilla at that point, and you will use

Jira anyway. Eventually, so in I can tell you in today's world. Not many companies use bugzilla anymore because everybody is under nowadays.

So just kind of just kind of a toy to play with, so we don't care about bugzilla at all.

It is not something we wish we really need. Um, why was submitting an assignment in the school forum so problematic?

Return and error is the secret You have to register first and I have to approve your account, sect And you, Natalia registered on that forum kind of Probably today.

Yeah, you had 3 or 4 days to do that. You just did it today. Okay, if I approve your account and the only problem with submission might be if you create,

write your text in Microsoft Word or another word processor, and then you can be paced. To the forum forum doesn't like it.

If you want to copy paste, copy paste first to notepad and then from notepad, it will accept it.

So that is just how that application works. We have no kind of leverage on, um, keep going, Yeah, so Tab order is incorrect is not correct.

After first name input tab goes to refer by instead of last name.

So OK, I like that. It is almost perfect guys. I'm not sure if you, if you recognize that, but that bug report is almost perfect number 7.

Uh, tip order.

A tab order is not correct. I say Tab order the order Let's see problem problem.

Role from from forked from first name fuel fuel, not input from first name field. But Um, yep, tab order, it goes it.

The tab order goes to refer to by instead of last name say again field feel perfect.

I won't make it all upper case here. I wouldn't make it all upper case, but it's almost perfect And here, guys, we have to talk about the rule of 3 Ws.

A rule of 3 baubles is about What makes bug report? Good enough bug report?

Good enough bug report um, bug report, so one W is for what happened it answers the question.

What happened in other answers. The question where acceptance it and your W is for under under each circumstances.

It happened Um, since we talk about primarily user interface issues that the circumstances are not important at the moment because it's always it's in front of you.

You don't have to do anything. You don't have to create circumstances. It's always there. So what happens and where it happens.

Um, the order the order The Order is not import them, so you might start with what happened.

Something is missing, okay?

Or you can say where exactly It happened. You are saying contact contact session.

Blah, blah, blah is mission.

Or you might say with circumstances when user goes from home to work So then something is happened.

In such and such place, do you know what I mean, So the Order of 3 W is just the way you feel it at the moment you come to work, you

right one bug reportedly.

Before lunch, you write same bug report differently slightly differently. After lunch, you write the same bag.

You know again, slightly, differently. So your wife calls you and you write one bug reports somebody else's wife calls you and you write it differently.

So whatever impacts your mood. Whatever impacts your energy level motivation, you are tired or not happy and happy, so it will all impact your bug report because bad reports are a

function of you.

But as long as you are a good tester, your bug reports are always good. You cannot create a pool bug report.

It's going to be OK is going to be OK. At least um, circumstances So guy is guys.

That's 8 Pm locally here, so we've done 7 bugs. We will do more so our session number 3 will allow us to do more Let's see what's going to be there.

Um, So the recording is going to be right here, yeah?

But after I finished the processing section 3 Okay, mastering user interface bug reports, user interface, not functionality, yet we will talk about style and vocabulary of the bug report.

And so what you do, You've watched the pre recorded webinar you again. You repeat those interview questions and answers 13 out of 60, most frequently asked interview questions, guys, not bad.

And you watch nice motivational video here.

And you see more bug reporting rules. We will go over the bug reporting rules next time.

So that is where we're going to be.

Actually, tomorrow guys, you do not have that much time for your homework. Whatever you manage to do again, there is there is nothing specific.

You must accomplish, but the more you do the better practice Um, any question so far guys with me.

Let me see him.

Do we need to write at least 10 bug reports? The more the better. I can write short bug reports, Ontario, if you write 10 -- 12 -- 15 as many as

you as you can.

And you can also look at the bug reports written by other people. You don't know if they are bugs because other people are also students.

They might call Samsung bug, which is not a bug. They might write a bug report in such a way that you have no idea what they really wanted to say, so

it helps to look at other people what they're doing um, What should we do by tomorrow?

Yeah, that homework for Session 3 homework for two more years, two videos and tried bug reports correct?

Yeah, just go. Just go over bullet by bullet by bullet in the session 3 And it's given to you in that bulleted way.

Where to write at least 10 bug reports on the forum. You have just one place on the forum.

Thank you. It was informative.

Um, okay, guys, let me let me. I'm just thinking what I have to finish first.

The webinar or the art Colibri, think, okay. Let's finish the webinar first. Guys. I'll talk to you tomorrow.

Thank you very much, and I hope our volunteers will also take care of them.

Of the calibrating Okay, thank you very much, and it was a pleasure to entertain you today.

And I'll talk to you tomorrow. Thank you.

Yes, Hey, so Yeah,

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