

SQA Tools

Topics

- ▶ Test Management Tools
- ▶ Defect Tracking Tools
- ▶ Communication Platforms and software
- ▶ Wiki Tools
- ▶ Version Control Tools
- ▶ More Tools

Test Management Tools

The background features a series of overlapping, semi-transparent geometric shapes in various shades of blue and teal. These shapes are primarily located on the right side of the slide, creating a modern, abstract design. The colors range from light sky blue to deep forest green, with some shapes having thin white outlines.

Test Management Tools

- ▶ **Test management tools** are used to store information on how testing is to be done, plan specific testing activities, and report the complete status of quality assurance activities
- ▶ Examples: Test Collab, PractiTest, Xray, TestRail, etc..

Test Management Tools

- ▶ Test management tools usually provide several core functionalities. These are:
 - ▶ Test Planning and Design.
 - ▶ Requirements Capture.
 - ▶ Test Execution and Analysis.

Defect Tracking Tools



Defect Tracking Tools

- ▶ **Defect Tracking Tools** are used to record, report, assign and track the issues (bugs, tasks, enhancements, etc.) in a software development project.
- ▶ Examples: Jira, BugZilla, Monday, Backlog, etc..

Defect Tracking Tools

- ▶ The benefits of using the defect tracking tools are:
 - ▶ Guarantee that bugs found in the system actually get fixed
 - ▶ Way to ensure follow-through
 - ▶ Provide valuable metrics and analysis on defect trends
 - ▶ Fast release of high-quality software
 - ▶ Better communication and team connectivity
 - ▶ Increased productivity

Communication Platforms and software

The background features a series of overlapping, semi-transparent geometric shapes in various shades of blue and teal. These shapes, including triangles and polygons, are arranged in a way that creates a sense of depth and movement, primarily concentrated on the right side of the frame.

Communication Platforms and Software

- ▶ The collaboration and communication platforms and software are used to connect and integrate most essential business components.
- ▶ Examples: Zoom, Slack, Dropbox, Google Workspace, Microsoft Teams, GoTo, etc...

Communication Platforms and Software

- ▶ Benefits and tools provided by communication platforms
 - ▶ Simplify team communication
 - ▶ Document collaboration tools
 - ▶ File sharing tools
 - ▶ Chat and messaging tools
 - ▶ Knowledge base tools
 - ▶ Voice and video conferencing tools
 - ▶ etc.

Wiki Tools

The background features a series of overlapping, semi-transparent geometric shapes in various shades of blue and teal. These shapes are primarily located on the right side of the image, creating a modern, layered effect. The colors range from light sky blue to deep forest green. The overall composition is clean and minimalist.

Wiki Tools

- ▶ A wiki is software designed specially to help people create, collaborate, edit and share content in an organized way
- ▶ Usually, it's a single source of knowledge for all the employees in an organization which can be created, edited, and shared by anyone.
- ▶ From Wikipedia: *“Wiki is a hypertext publication collaboratively edited and managed by its own audience directly using a web browser. A typical wiki contains multiple pages for the subjects or scope of the project and may be either open to the public or limited to use within an organization for maintaining its internal knowledge base.”*
- ▶ Examples: Confluence, DokuWiki, Notion, etc..

Wiki Tools

- ▶ **Benefits:**
 - ▶ Improves collaboration and communication
 - ▶ Transparency in the organization
 - ▶ Provides faster onboarding by training new employees
 - ▶ Preserves the knowledge

Version Control Tools



Version Control Tools

- ▶ Version control, also known as source control, is the practice of tracking and managing changes to software code.
- ▶ Version control systems are software tools that help software teams manage changes to source code over time.
- ▶ Examples: Git, CVS, SVN, etc..

Version Control Tools

▶ Version Control Benefits:

- ▶ Version control systems allow you to compare files, identify differences, and merge the changes if needed prior to committing any code.
- ▶ Versioning is also a great way to keep track of application builds by being able to identify which version is currently in development, QA, and production.
- ▶ As a QA, you can easily download the current version of the application to your local environment using the version control system and be able to keep track of the versions you're testing.

Mobile Automation Testing Tools



Mobile Automation Testing Tools

- ▶ Mobile Automation Testing Tools used to automate testing of mobile applications.
- ▶ These tools can reduce the time needed for the testing process and the chances of human errors during test execution.
- ▶ Examples: Appium, Espresso, TestComplete, etc..

Mobile Automation Testing Tools

- ▶ The major benefits of automated testing:
 - ▶ Cost-Saving
 - ▶ Fast Development and Delivery
 - ▶ Increased Productivity
 - ▶ More Accurate Tests
 - ▶ Immediate Feedback
 - ▶ CI/CD and DevOps Implementation

More Tools

The background features a complex, abstract geometric design. It consists of several overlapping, semi-transparent shapes in various shades of teal and blue. These shapes are primarily located on the right side of the frame, creating a layered, modern aesthetic. The overall composition is clean and minimalist, with the text 'More Tools' positioned on the left side.

More Tools

- ▶ API Tools
- ▶ Performance/Load Testing Tools
- ▶ Security Testing Tools
- ▶ Multi-Browser Testing Tools
- ▶ Multi-Platform Testing Tools
- ▶ etc.