



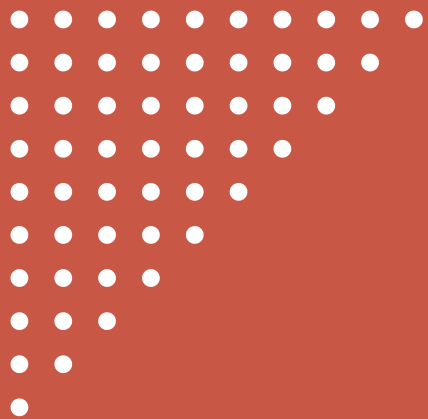
8

Software Testing Types



Chaya Devi

[LINKEDIN.COM/IN/CHAYA-IS-DEVI](https://www.linkedin.com/in/chaya-is-devi)



#01

Unit Testing

Focus	Individual code units (functions, classes, modules)
Goal	Verify unit produces correct outputs for given inputs
Performed By	Developers
Benefits	Early bug detection, faster development, easier debugging



#02

Integration Testing

Focus	Multiple integrated units
Goal	Ensure units collaborate seamlessly and exchange data correctly
Performed By	Developers or testers
Benefits	Uncover integration issues, detect interface problems, enhance system stability



#03

Interface Testing

Focus	Interfaces between systems/components
Goal	Verify interfaces function correctly and data flows smoothly
Performed By	Testers specializing in interface technologies
Benefits	Reduce integration and deployment issues, improve interoperability



#04

System Testing

Focus	Complete software system
Goal	Ensure system meets overall requirements (functional, non-functional)
Performed By	Testers
Benefits	Catch system-level issues, validate user experience, build confidence in functionality

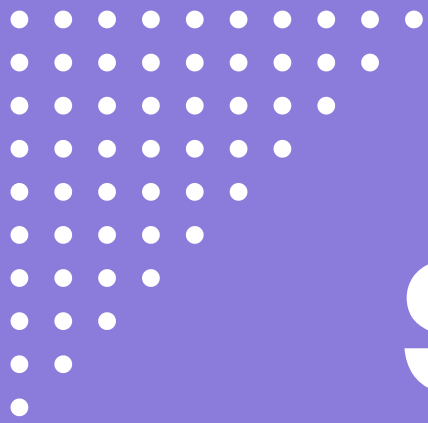


#05

Regression Testing

Focus	Re-run existing tests after code changes
Goal	Prevent regressions (reintroduction of previously fixed bugs)
Performed By	Testers
Benefits	Maintain software quality, reduce defects, build confidence in releases





#06

Smoke Testing

Focus	Basic functionalities of a build/release
Goal	Identify critical issues preventing further testing/user interaction
Performed By	Testers or developers
Benefits	Save time and resources, prioritize testing efforts





#07

Sanity Testing

Focus	High-level checks after changes
Goal	Verify core functionalities are restored
Performed By	Testers or developers
Benefits	Provide quick feedback on potential regressions, avoid unnecessary testing



#08



Acceptance Testing

Focus	System's ability to meet user needs
Goal	Ensure system is acceptable to stakeholders and fulfills its purpose
Performed By	End users, business analysts, or independent testers
Benefits	Align with user expectations, increase deployment confidence, reduce post-release rework





Chaya Devi

[linkedin.com/in/chaya-is-devi](https://www.linkedin.com/in/chaya-is-devi)

Join Me on My Testing Journey

**Follow my journey for more insights
into the world of software testing.
Let's learn and grow together!"**