# O teu banco fácil Preparado para todos os dias?

**Testing** 

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Framework(SAFe)

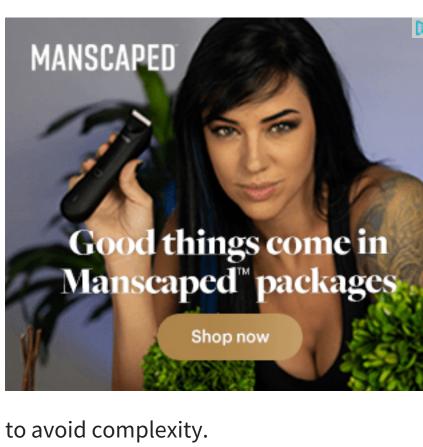
Testing Life Cycle

Web Testing Checklist

**Scrum Testing** 

Web Testing

## Scrum Testing Methodology Tutorial: What is, Process, Artifacts, Sprint **Scrum in Software Testing**



Scrum in Software Testing is a methodology for building complex software applications. It provides easy solutions for executing complicated tasks. Scrum helps the development team to focus on all aspects of the software product development like quality, performance, usability and so on. It provides with transparency, inspection and adaptation during the software development

## Scrum Testing is a testing done in scrum methodology to verify the software application

**Scrum Testing** 

requirements are met. It involves checking non-functional parameters like security, usability, performance etc. There is no active role of tester in the process so it is usually performed by developers with Unit Test. Sometimes dedicated test teams are needed depending on nature & complexity of project. **FEATURED VIDEOS** 

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• Scrum Artifacts • Ceremonies (Processes) in Scrum

In this tutorial, you will learn-

Key Features of Scrum Methodology

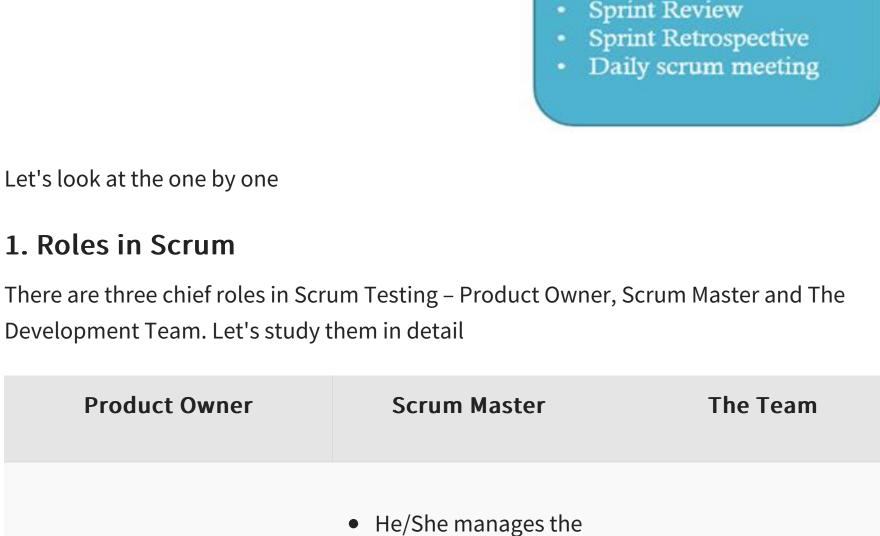
• Role of Tester in Scrum

• What is Scrum?

• Roles in Scrum

- Testing Activities in Scrum • Test Reporting
- **Key Features of Scrum Methodology**
- Following are Key Features of Scrum-

- Roles
- Product Owner
- Team Product backlog



He/She defines features of

team and look after

• The team is usually about

daily ceremonies

Scrum Process @Guru99

Sprint

Restrospective

Daily

Scrum/Work

Daily Scrum Meeting

the product.	the team's productivity	5-9 members
<ul> <li>Product Owner decides the release date and corresponding features</li> </ul>	<ul> <li>He/She maintains the block list and removes barriers in the development</li> </ul>	<ul> <li>It includes developers, designer and sometimes testers, etc.</li> </ul>
<ul> <li>They prioritize the features according to the market value and profitability of the product</li> </ul>	<ul> <li>He/She coordinates with all roles and functions</li> </ul>	<ul> <li>The team organizes and schedule their work on their own</li> </ul>
<ul> <li>He/She is responsible for the profitability of the product</li> </ul>	<ul> <li>He/She shields team from external interferences</li> </ul>	<ul> <li>Has right to do everything within the boundaries of the project to meet the sprint goal</li> </ul>
<ul> <li>He/She can accept or</li> </ul>	<ul> <li>Invites to the daily scrum, sprint review</li> </ul>	Actively participate in

and planning

Sprint

Planning

meetings

Sprint

Backlog

Sprint 1

Backlog

Sprint 2

A scrum process includes

Product

Backlog

reject work item result

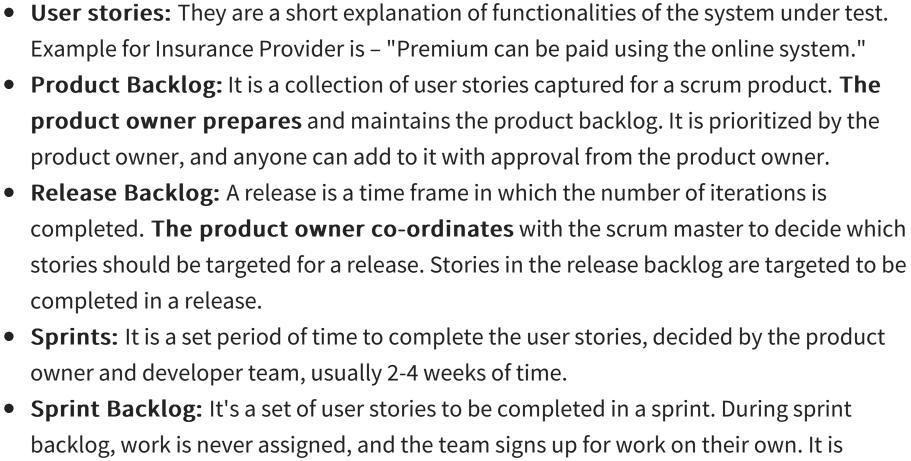
Release

Release 1

Release Backlog

Release 2

2. Scrum Artifacts



progress is tracked.

should be tested.

**Sprint** 

- owned and managed by the team while the estimated work remaining is updated daily. It is the list of task that has to be performed in Sprint • Block List: It is a list of blocks and unmade decisions owned by scrum master and
- updated daily • Burndown chart: Burn-down chart represents overall progress of the work in progress and work completed throughout the process. It represents in a graph format the stories and features not completed
- backlog into the sprint backlog; it is hosted by scrum master. The Testers estimate effort to test the various stories in the Sprint Backlog. • Daily Scrum: It is hosted by scrum master, it last about 15 minutes. During Daily Scrum, the members will discuss the work completed the previous day, the planned work for

the next day and issues faced during a sprint. During daily stand-up meeting team

• Sprint Review/ Retrospective: It is also hosted by scrum master, it last about 2-4

• **Sprint Planning:** A sprint begins with the team importing stories from the release

were learned. **Role of Tester in Scrum** 

In formal scrum process there is NO Teste

hours and discuss what the team has accomplished in the last sprint and what lessons

### There is no active role of Tester in the Scrum Process. Usually, testing is carried out by a developer with Unit Test. While product owner is also frequently involved in the testing process during each sprint. Some Scrum projects do have dedicated test teams

depending on the nature & complexity of the project.

finish testing for each of selected user stories.

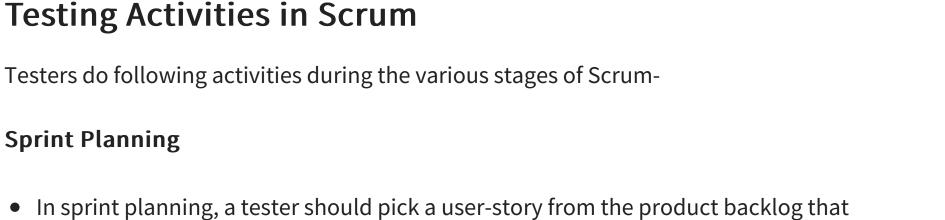
• As a tester, contribute to the prioritizing process

• Support developers in unit testing

• As a tester, he/she must know what sprint goals are.

The next question is, what tester do in a scrum? Following note will answer

3. Ceremonies (Processes) in Scrum



• As a tester, he/she should decide how many hours (Effort Estimation) it should take to

• As a tester, he/ she can bring any backlog item that cannot be completed in the current

various open source or paid tools available in the market. This proves effective in

• Coordinate with customer and product owner to define acceptance criteria for

• At the end of the sprint, the tester also does acceptance testing(UAT) in some case and

ensuring that everything that needs to be tested was covered. Sufficient Test coverage

• Test user-story when completed. **Test execution is performed** in a lab where both tester and developer work hand in hand. Defect are logged in Defect Management tool which are tracked on a daily basis. Defects can be conferred and analyzed during the scrum meeting. Defects are retested as soon as it is **resolved** and deployed for testing

sprint and put to the next sprint • Tester is responsible for developing automation scripts. He schedules automation testing with Continuous Integration (CI) system. Automation receives the importance due to short delivery timelines. Test Automation can be accomplished by utilizing

• As a tester, he/she attends all daily standup meeting to speak up

can be achieved with a close communication with the team.

• Executing non-functional testing for approved user stories

confirms testing completeness for the current sprint

• Review CI automation results and send Reports to the stakeholders

## • As a tester, he will figure out what went wrong and what went right in the current sprint • As a tester, he identifies lesson learned and best practices

report.

italki

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**Acceptance Tests** 

**Sprint Retrospective** 

- **Test Reporting** Scrum Test metrics reporting provides transparency and visibility to stakeholders about the
- Burn down chart: Each day, Scrum Master records the estimated remaining work for the sprint. This is nothing but the Burn Down Chart. It is updated daily. A burndown chart gives a quick overview of the project progress, this chart contains information like the total amount of work in the project that must be completed, amount of

work completed during each sprint and so on.

500

Remaining Work [hours]

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Velocity history graph: The velocity history graph predicts the velocity of the team reached in each sprint. It is a bar graph and represents how teams output has changed over time.

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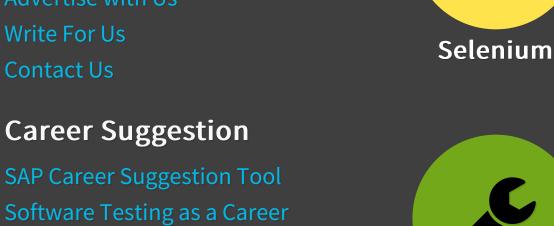
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Project Summary The BFSI



project. The metrics that are reported allow a team to analyze their progress and plan their future strategy to improve the product. There are two metrics that are frequently used to

The additional metrics that may be useful are schedule burn, budget burn, theme percent complete, stories completed - stories remaining and so on. Do you have any tips or experiences to share for Scrum Testing? Do leave a comment below-

Time [working days]

13

**Sprint Burndown Chart** 

**Software** Bug **Assurance Tracking Vs Quality Testing Control:** Live **Tools Project:** (Defect What's the

What is Quality Assurance?

Report a Bug



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• Scrum has a short fixed schedule of release cycles with adjustable scope known as **sprints** to address rapidly changing development needs. Each release could have multiple sprints. Each Scrum Project could have multiple Release Cycles. • A repeating sequence of **meetings**, events, and milestones • A practice of testing and implementing new requirements, known as **stories**, to make sure some work is released ready after each sprint Scrum is based on the following 3 Pillars-Scrum Master Sprint backlog Burn-down charts Ceremonies · Sprint Planning Sprint Review