

Project Breakdown

About this document

This document describes the format of the project from the perspective of sprints. It explains the project phases and sprints. It also includes the goals and tasks for each of the phases and sprints.

Project breakdown

In AGILE development, work is broken down into sprints, not phases. But for educational purposes in this project we added phases to show clear distinction between the different parts of the project.

This project is broken down into 2 phases. In phase 1, Manual Testing procedures will be practiced. Every team will create positive & negative scenarios and manual test cases on JIRA for existing user stories. Tests will be executed manually. There will be 2 sprints in this phase.

In phase 2, we plan to focus on Automating our Test cases. We will be using Cucumber Framework to create and execute our Tests. We will use GitHub for team collaboration. CI/CD will be practiced in Jenkins. Smoke and Regression Testing will be done. There are 3 sprints in this phase.

Phase 1

Prerequisite:

All students must:

- Obtain all required access to Jira and Project Documents
- Get familiar with the respective project as:
 - navigating to the URL,
 - having the credentials,
 - knowing the functionality of the modules of the app/web page
- Have taken SDLC, Agile, Manual testing and STLC, Bug life cycle classes.
- Have a general understanding on JIRA implementation.

Objectives:

At the end of phase 1, all students should be able to:

- Have a good understanding on roles & responsibilities in an AGILE team
- Explain Scrum ceremonies and content of them,
- Write functional test cases against the positive and negative scenarios of the ACs,
- Implement Jira usage like creating test cases, test execution, participating in a sprint
- Perform manual testing.

Sprint 1:

During the first sprint, teams will:

- Meet the team members
- Learn the documentation
- Learn the application generally
- Write functional test cases for Manual Testing
- Get familiar with the Jira board
- Start practicing AGILE meetings

Sprint 2:

During the second sprint, teams will:

- Keep learning the details of the application
- Keep practicing AGILE meetings
- Write more test cases
- Groom the backlog accordingly
- Execute manual test cases
- Write scenarios for the smoke test

Phase 2

Prerequisite:

Before starting the second phase :

- Classes/reviews about the following should be finished:
 - Selenium
 - Cucumber
 - Git
 - CI/CD (needed for final sprints)
- Backlog grooming should be done

Objectives:

At the end of phase 2, all students should be able to :

- Create basic BDD framework
- Create, edit and complete basic Jira components like test, test set, test execution, bug, etc.
- Automating smoke tests
- Start building regression suite

Sprint 3:

During the first sprint, teams will:

- Develop BDD test automation framework
- Automate test cases created during the first phase
- Create Jira tests for every test case in the BDD framework
- Start automating smoke tests
- Start creating regression suite

Sprint 4:

During the second sprint, teams will:

- Collaborate on framework using Git and Github
- Continue automating test cases
- Automate smoke tests
- Continue building regression suite
- Schedule automated smoke test in CI/CD (optional)

Sprint 5:

During the third sprint, teams will:

- Collaborate on framework using Git and Github
- Continue automating test cases
- Automate smoke test
- Schedule automated smoke test in CI/CD
- Continue building regression suite