

INNOVATION CHALLENGE TEST PLAN

Introduction:

This test approach document describes the appropriate strategies, process, workflows and methodologies used to plan, organize, execute and manage testing of software projects within Innosabi Innovation Challenge to compile Happy Path Testing.

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The Feature to be tested:

Innovation Challenge feature is to be tested. Inserting Title idea, Description for Idea then continue with Submit the idea.

On the submitted idea page, add a comment under “Using autonomous robots to drive supply chain innovation” article.

The Feature not to be tested:

The features that are mentioned below are not to be tested because they will not be considered until next release.

- Hardware Interfaces
- Software Interfaces
- Database logical
- Website Security and Performance
- Participate and Following button on the comment page.

Out of Scope:

Testing activities starts with the URL “<https://e2e.innosabi.com/>” and testing ends at the <https://e2e.innosabi.com/topic/detail/default/1/participate/1/suggest>” route.

Required information:

Information are useful to starts the test.

The user uses valid credentials;

- A valid email address
- A valid password with capital and lower case letter(s), number and special character.

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Testing activities include only exploratory testing. Therefore, there is no user story, requirements or acceptance criteria. The Test will be built on Tester's previous experience. Tester should focus on for the happy path. Testing activities do not include other types of Tests.

Risks: Without any documentation or guidance, testing activities may fail to cover some important parts of the product. Tester should keep checking if any important part of the product is missed with the time pressure.

Tools:

- Manual testing: A laptop/Desktop computer, internet and Innosabi's website, provided video from Innosabi.
- Automation testing: a laptop, internet, a Java IDE (IntelliJ), a maven project with Cucumber BDD framework.

Test Environments:

- Windows: Windows 10: Edge, Chrome (latest), Firefox (latest), Safari (latest)
- Mac OS X:, Chrome (latest), Firefox (latest), Safari (latest)

TESTING

Integration Test

Unit Integration Tests

Unit integration tests will be performed by the developers.

System Integration

- "Innovation Challenge"-> Submit Idea

To test the compatibility of different systems like front-end and back-end Testing will be performed.

Smoke Testing

The main purpose of this test is to check the basic and important functionality of the module that will be tested. The test cases that should be in smoke test suit will be decided by the team members and Product Owner (PO). Smoke test suit will be run daily at 5 AM. Test Result will be sent to the team's email. To trigger the Smoke Test suite, Jenkins will be used as a CI/CD tool.

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Acceptance Testing

The User Acceptance Testing team is responsible for acceptance test.

Regression Testing

Automated Regression suite will be executed as part of Regression. There are two type of Regression Test suites.

- **Minor Regression Test Suit:** Every module has it is own test suit. At the end of each sprint, the regression tests of the modules that are updated or new functions added during the sprint will be run.
- **Major Regression Test Suit:** This test suite includes all the critical and important test cases and will be executed one week before release date to see that the product is ready to release.

Risks & Mitigation

No	Risk	Mitigation
1	The tests cannot be completed during the sprint	Provide review of estimating agile story points.
2	Hardware failure during testing	Make ready IT team, also maintain backup.
3	Team members lack the required skills for website testing	Plan training course to develop the skills of the team members.
4	Lack of cooperation negatively affects the productivity of the team members	Plan out-of-work activities which can create good relationships between team members.

NOTE: After submitting idea, the user should add comment at the end of the page, however there is no submit button which gives to option "Comment as Admin" and "Comment as User. As an user, the tester inserts the comment by clicking on Comment button without those mentioned options.