

INTRODUCTION

This Test Summary Report provides an overview of the testing activities conducted for the JPP Compiler Web Application from 15 April 2025, April 19 2025

The goals of this reports are to show the following:

- Status of test cases executed
- Identified defects.
- Recommendations for improving testing in the upcoming page

This is the status of all the test cases that are run on the Web Application:

Test Cases Status	Results
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Total Number of Test Case	52
Passed Test Case	39
Failed Test Case	13
Blocked/Skipped Test Case	0

Defects Status

This table lists the number of defects in the based on their priority

Defect status	Results
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Total number	13
Blocker	4
Critical	5
Major	2
Minor	2

This table lists the number of defects in the based on their type

Total number	13
Functional	10
Usability	3

Recommendations & Suggestions :

Below are the List of improvements needed for the JPP Compiler Web Application:

Create Account

- Need improvement on create account functionality with valid credentials
- Implement real-time validation (e.g., email format, password strength).
- Send a confirmation email to verify user identity.
- Need improvement on Terms and conditions
- Need improvement on sign up and also with different account (eg; Google, apple,Email)

Visualizer Page

- Need improvement on long and complex code conversions
- Display Python input on the left, JS output or visualization on the right.
- Add a quick tooltip or guide: "Paste your Python code here and see step-by-step JS translation."
- Provide pre-filled examples (e.g., loop, function) to help first-time users.

Playground Page

- Need improvements on different language code conversions

Overall Website

- Clearly state the purpose of the website on the landing page.
- Include a simple form for users to submit issues, feedback, or suggestions.
- Link to basic Python/JS tutorials or docs for beginners.
- Need improvement on visualizer not intuitive for first-time users

