**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** |
| --- | --- |

| 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** |
| --- | --- |

| 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

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