National University of Computer and Emerging Sciences Chiniot-Faisalabad Campus



**metabase**

Software Quality Engineering

### Semester Project

### Summary report

### BS (SE) 5A

## Team Name: zzwave-testing

## Team Member’s:

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# **Summary Report for Automation Testing in Metabase Project: -**

# ***Project Overview:***

The automation testing phase for the Metabase project, with each member responsible for their specific tasks related to writing test cases along their selected module, implementing automation, and using test management tools for efficiency and collaboration.

## *Team Members and Responsibilities:*

1. **Each Team Member:** Responsible for writing GUI (Graphical User Interface) test cases for the Metabase application. The focus was on testing the user interface for usability, functionality, and responsiveness. Test cases covered a wide range of user interactions with the Metabase web interface.
2. **Each Team Member:** Focused on writing API (Application Programming Interface) test cases for the Metabase project. API testing involved validating the interactions and data exchange between various components of the application. Test cases covered API endpoints, data validations, and authentication checks.
3. **Each Team Member:** Led the effort to rewrite all test cases into Gherkin language. Gherkin is a human-readable language that enhances collaboration and clarity. It ensures that everyone, including non-technical stakeholders, can understand the test scenarios. Additionally, the team member integrated the test cases with the selected test management tool, TestRail, to streamline test case management and execution.

## *Key Project Phases:*

1. **Test Case Writing:** Each team member diligently wrote comprehensive test cases for GUI and API testing. This phase involved designing scenarios, defining test steps, and outlining expected outcomes.
2. **Automation Implementation:** Automation scripts were developed based on the written test cases. Automation tools and frameworks were employed to execute test cases efficiently and consistently. This phase aimed to reduce manual testing efforts.
3. **Gherkin Conversion:** Team Member 3 translated the existing test cases into Gherkin language. This transition was crucial for improved communication and collaboration within the team and across different stakeholders.

## *Results and Outcomes:*

* GUI and API test cases provided comprehensive coverage of the Metabase application.
* Automation of test cases reduced testing time and increased efficiency.
* Gherkin-based test cases improved readability and collaboration among team members and stakeholders.
* The team achieved a more structured and organized approach to testing, which positively impacted overall project quality.

## *Conclusion:*

The automation testing phase for the Metabase project was executed successfully by a dedicated three-person team. The team's efforts in writing, automating, translating, and managing test cases contributed to comprehensive and efficient testing. The implementation of TestRail for test case management further enhanced the project's organization and quality.