**TEST PLAN FOR MODULE REGISTER & LOGIN IN GITHUB.**

1. **OBJECTIVES**

The goal of this test plan is to verify the correctness, reliability, and usability of the Register, Login, and Forgot Password functionalities. The testing ensures that input validation, error handling, and user authentication flows work as expected**.**

1. **SCOPE**

In-Scope:

* Registration with valid and invalid data.
* Login with valid/invalid credentials.
* Forgot Password flow (email validation, reset link).

Out-of-Scope:

* Payment module.
* Profile update and other advanced **features not implemented in this version.**

1. **TEST STRATEGY**

* **Techniques:** Functional Testing, Boundary Value Analysis (BVA), Equivalence Partitioning (EP), Negative Testing, Usability checks.
* **Type:** Manual testing.
* **Focus:** Input validation, error messages, and flow correctness.

1. **RESOURCES**
   * **Tester:** NGOC HAN (self-practice project).
   * **Tools:** Excel (Test Cases & Bug Reports), GitHub (Version control & defect tracking).
   * **Environment:** Local development environment, browsers (Chrome, Edge).

* **Equipment:**
* Laptop: Windows 11, 8GB RAM, Intel core i3.
* Network: Wi-Fi 6 (1201Mbps).
* Mobile: Androi ( Redmi note 14).

1. **TIMELINE**

* **Day 1–2:** Analyze requirements, prepare Test Plan & Test Cases.
* **Day 3–5:** Execute test cases, log defects in GitHub.
* **Day 6–7:** Regression testing after defect fixes, finalize reports.

1. **ENTRY & EXIT CRITERIA**

Entry Criteria:

* Application is deployable and stable for test.
* Test data is prepared.

Exit Criteria:

* All planned test cases executed.
* No open critical or high-severity defects.
* Test report completed.

1. **RISKS & ASSUMPTIONS**

Risks:

* Missing validation in certain flows may block other scenarios.
* Browser compatibility issues may occur.

Assumptions:

* Test environment behaves similarly to production.
* Email service is available for Forgot Password feature.