**Testing Plan**

**1. Introduction**

This testing plan outlines the approach for validating the functional requirements of the user registration, login, course registration, and payment processing features of the system.

**2. Objectives**

1.To ensure all functional requirements are met

(Validate user registration , log in , course registration , payment)

2.To identify any defects before deployment.

3.proving the system is working well under normal condition

4.validate the security of user data and payment processing

1. **project name**:SRS for Ethio-lense

**4. Scope**

The testing will cover the following functionalities:

1.User Registration

2.User Login

3.Course Registration

4.Payment Processing

**4. Testing Strategy**

**4.1 User Registration Test Cases**

| Test Case  ID | Description | Input | Expected Result |
| --- | --- | --- | --- |
| 1 | Register with valid name, email, and password | Valid name, unique email, valid password | Registration successful. |
| 2 | Register with a duplicate email | Valid name, duplicate email, valid password | Registration fails.  this email is registered |
| 3 | Register with invalid email format | Valid name, invalid email format, valid password | Registration fails.  error message displayed. |
| 4 | Register with incomplete format | Valid name and email with out password, valid name and password with out email ,valid email and password with out name | Registration fails. This is required |

**4.2 User Login Test Cases**

| Test Case ID | Description | Input | Expected Result |
| --- | --- | --- | --- |
| 1 | Login with valid email and password | Valid email, correct password | Login successful; user redirected to home page. |
| 2 | Login with invalid password | Valid email, incorrect password | Login fails; error message displayed. |
|  |  |  |  |

**4.3 Course Registration Test Cases**

| Test Case ID | Description | Input | Expected Result |
| --- | --- | --- | --- |
| 1 | Display list of available courses | User navigates to course registration page | List of courses displayed. |
| 2 | Register for a selected course | Select a course from the list | Registration successful; |
| 3 | Record of enrolled courses | User checks enrolled courses | Enrolled courses displayed correctly. |

**4.4 Payment Processing Test Cases**

| Test Case ID | Description | Input | Expected Result |
| --- | --- | --- | --- |
| 1 | Make a payment through PayPal | register, proceed to payment | Payment processed successfully |
|  |  |  |  |
| 2 | Handle payment failure | Simulate payment failure scenario | Error message displayed; |

## 5. Resources Required

**Teste**r: mati and mchealay

**Tool**: pytest

## Schedule

**Testing type start date ende dete**

Registration testing 15/1/2025 17/1/2025

Log in testing 18/1/2025 19/1/2025

Course registration 20/1/2021 21/1/2025

Payment testing 22/1/2025 25 /1 2025

**7. Risk Management**

Potential Risks and Mitigation Strategies

| Risk ID | Risk Description | Impact Level | Mitigation Strategy |
| --- | --- | --- | --- |
| 1 | Resource availability may be limited (example : lack of internet access) | medium | Ensure having access to backup internet solutions (e.g., mobile data) |
| 2 | Lack of documentation leading to inefficient testing processes | medium | Ensure all testing processes, test cases, and results are thoroughly documented and accessible |

1. **approval**

Name: mati

Role: tester

Date:26/1/2025