

LAB REPORT : SPRINT 1 RETROSPECTIVE

COURSE CODE: CSE 404
COURSE TITLE: SOFTWARE ENGINEERING AND ISD
LABRATORY

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January 07, 2025

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1. Sprint Introduction

The focus of this sprint was to develop a feature-rich website for the JU Exam Office Management System, aimed at creating an efficient platform for students and teachers to handle exam-related tasks. To ensure secure and streamlined access, the system incorporates a role-based login mechanism tailored to different user types.

Following the Agile Scrum methodology, our team worked collaboratively to achieve this goal. During Sprint 1, we concentrated on implementing key features derived from prioritized user stories, establishing the groundwork for the system's core functionality. We conducted regular Scrum meetings every two days to share updates, address challenges, and ensure team alignment.

At the end of Sprint 1, we presented the implemented features to our teachers for feedback. Despite encountering several challenges along the way, these experiences proved invaluable, providing insights that will help us refine our approach and enhance our strategies in the upcoming sprint.

2. My feature Review

2.1 Features Implemented in Sprint 1

2.1.1 Apply for Certificate

Feature Details:

- Only valid students can apply for the **certificate** of a degree

- The application process involves:
 - Selecting the specific degree for which the **certificate** is required.
 - Choosing a payment option to complete the application
- The application will be approved only if all prerequisites for obtaining the **certificate** are met

Key Feature Highlights:

This feature aims to offer students a seamless and user-friendly experience for **certificates** applications. The process is designed with clear and simple steps to guide users through selecting a degree and completing payment options. The system ensures accuracy and transparency by seamlessly verifying eligibility. Moreover, it is closely integrated with the role-based login system, ensuring both security and efficient operation.

2.2 Daily Scrum Meeting 1

What I Did Yesterday

- Reviewed my user story
- Familiarized myself with our coding conventions
- Reviewed Toggl
- Reviewed tools for the project

Problem Faced

- Challenges in documenting the Architectural Pattern(MVT)

What I Will Do Today

- Work on resolving the issues related to MVT implementation

2.3 Daily Scrum Meeting 2

What I Did Yesterday

- Create a new branch locally and started works
- Set up all necessary models

Problem Faced

- No issues encountered

What I Will Do Today

- I will develop django app for "Apply for Certificate"

2.4 Daily Scrum Meeting 3

What I Did Yesterday

- Configured `models.py`, `views.py`, and `templates.py` for "Apply for Certificate"

Problem Faced

- Facing some issues

What I Will Do Today

- I will solve my issues, perform unit testing, follow coding standard and write documentation for "Apply for Certificate"

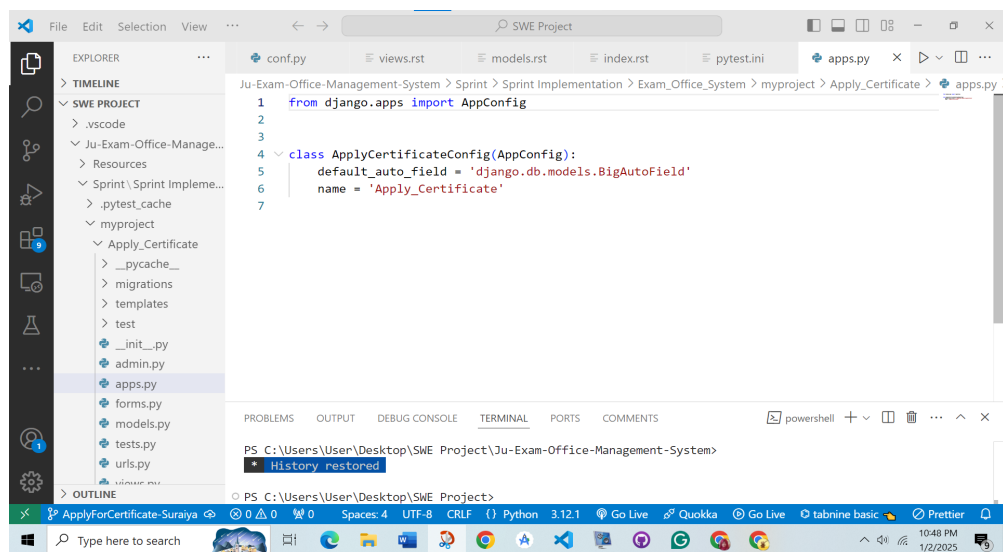


Figure 2.1: Created ApplyForCertificate App

2.5 Daily Scrum Meeting 4

What I Did Yesterday

- Solved my models issuesdocumentation using Sphinx
- Completed implementation of assigned functionalities
- Completed documentation using Sphinx
- Performed unit testing on two modules

Problem Faced

- Facing issues with unit testing

What I Will Do Today

- Will try to solve unit testing related issues

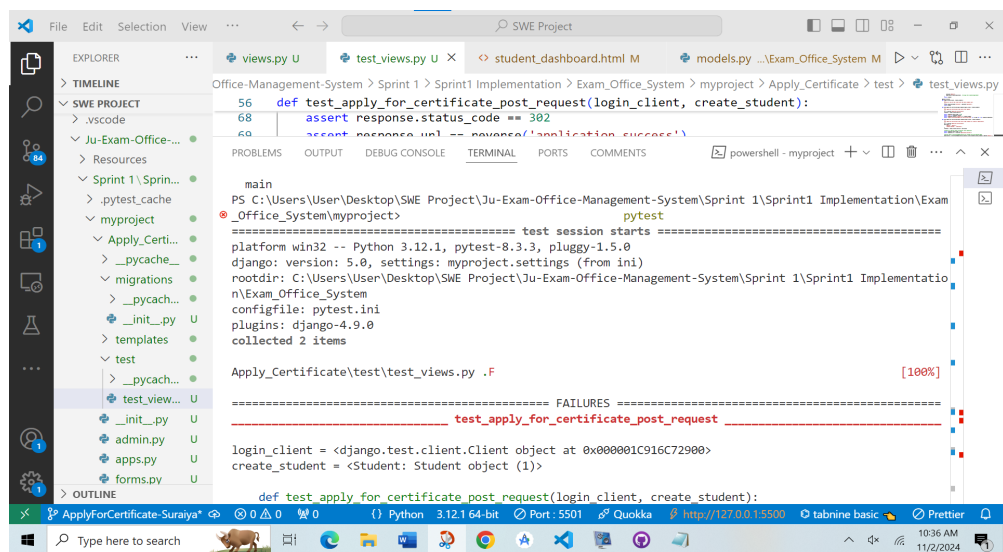


Figure 2.2: Unit Testing

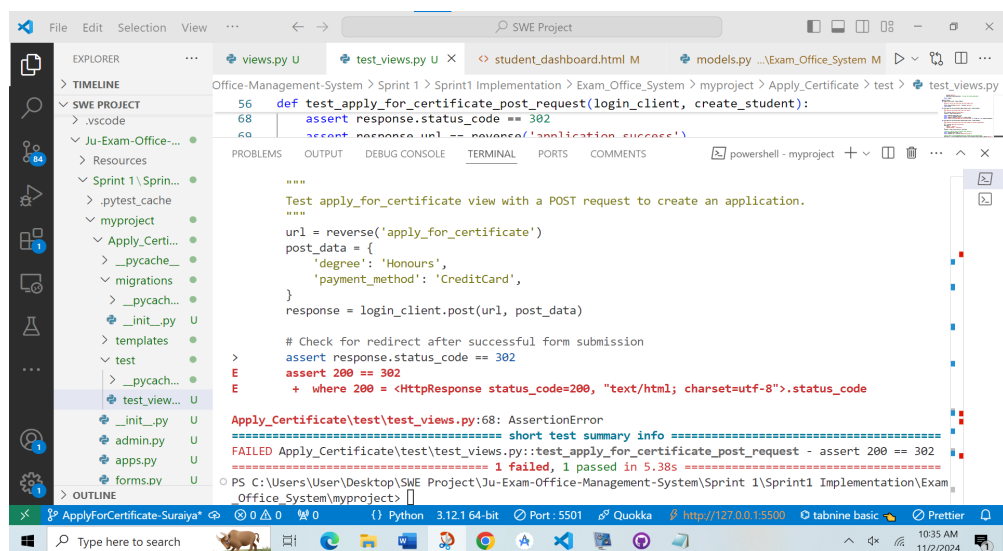


Figure 2.3: Unit Testing

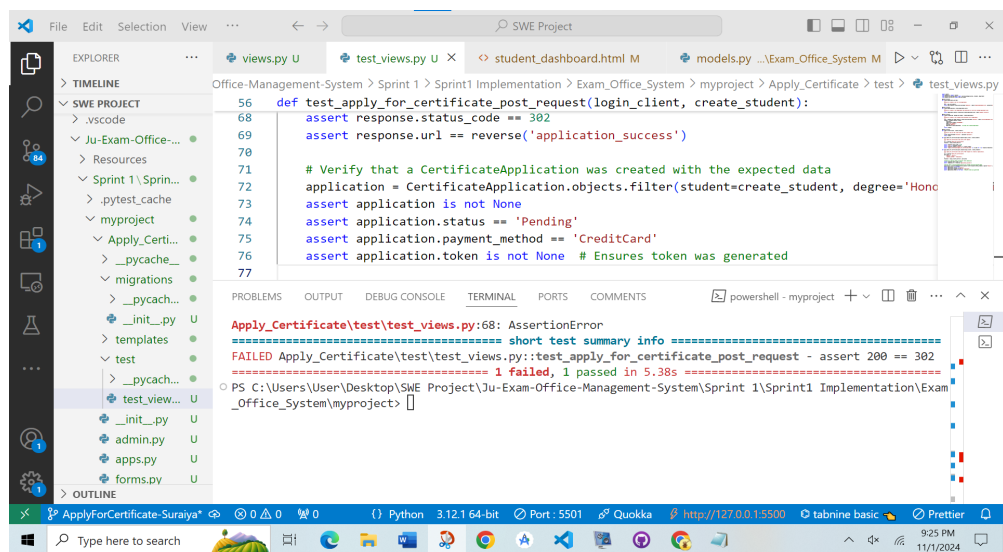


Figure 2.4: Unit Testing

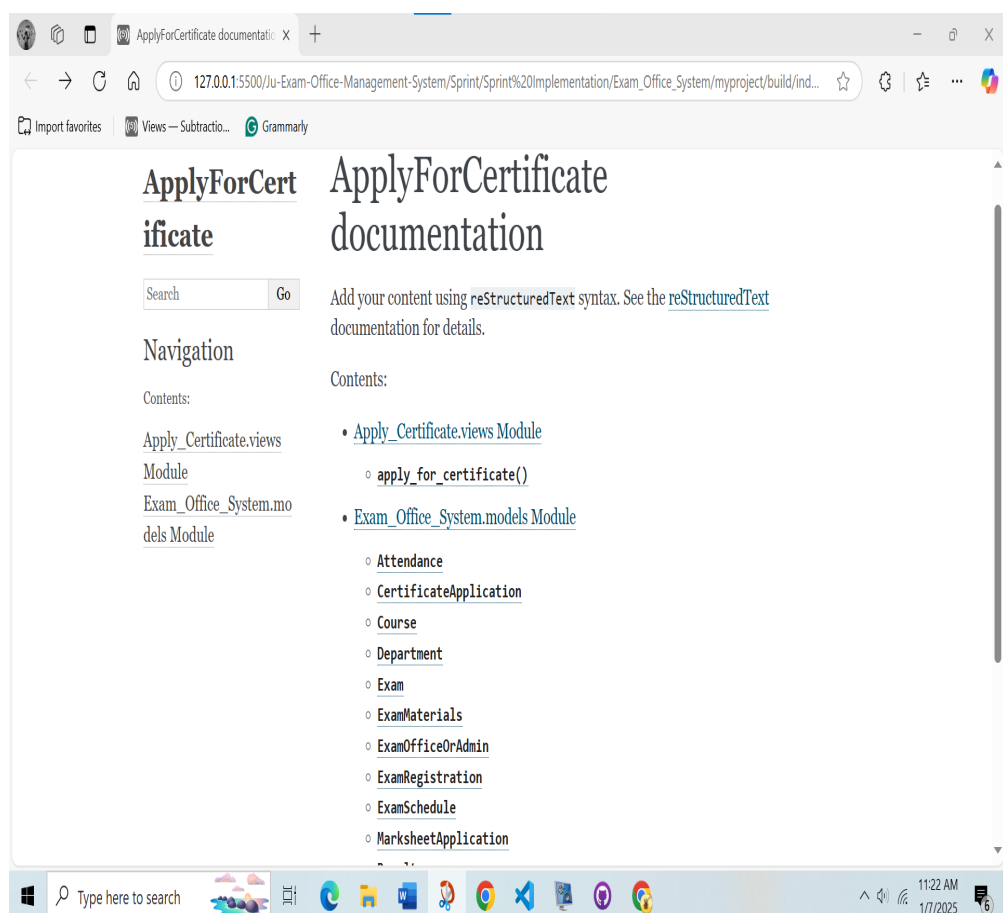


Figure 2.5: Performed Documentation

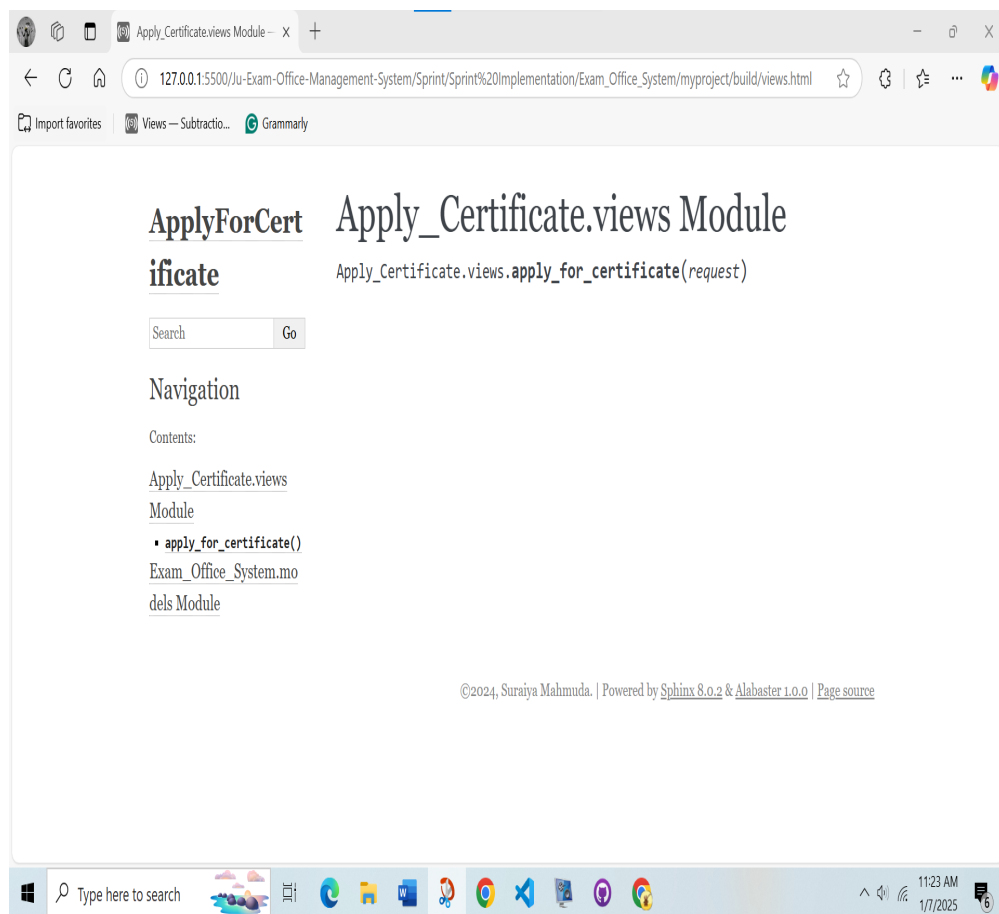


Figure 2.6: Performed Documentation

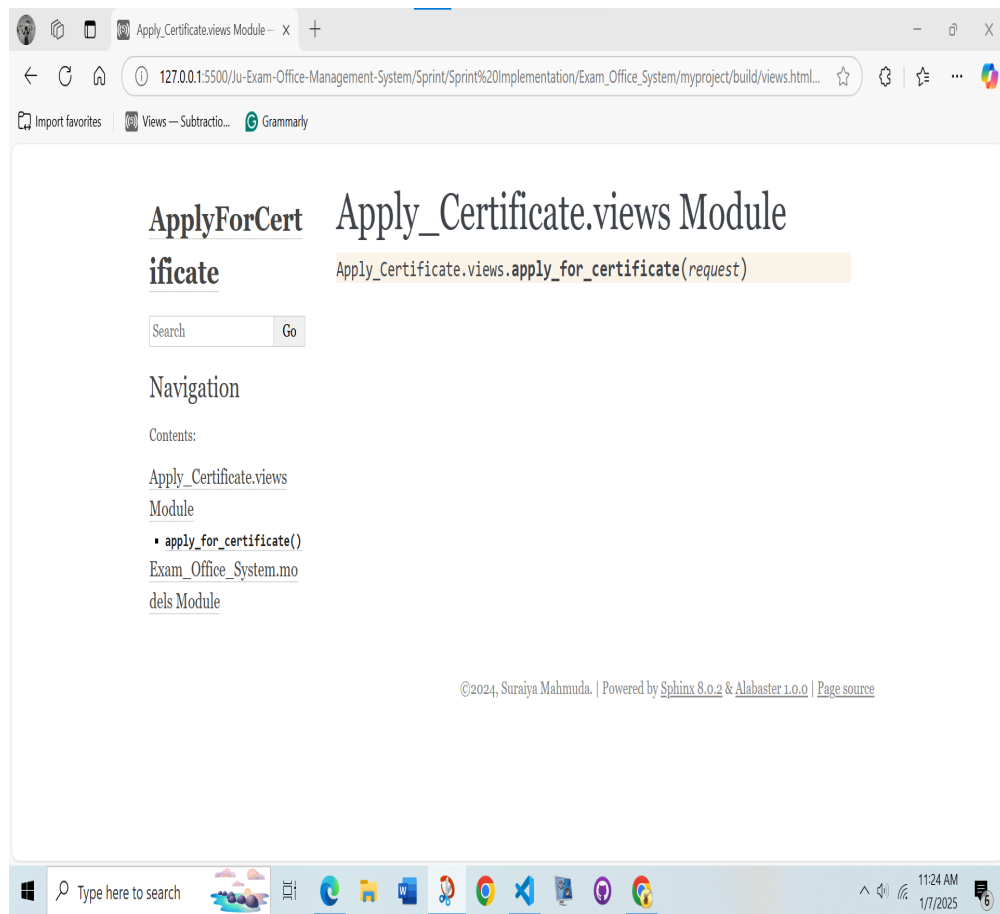


Figure 2.7: Performed Documentation

3. Sprint Review

Sprint 1 Retrospective Meeting

What Went Well for Me

What Went Well for Me

- Successfully implemented the "Apply for Certificate" feature, ensuring its functionality and meeting the requirements

- Performed unit testing and added thorough documentation for the `models.py` and `views.py` modules
- Consistently followed the team's established coding standards and best practices

What Went Wrong for Me

- While performing unit testing for all modules, I encountered issues in one module where the tests failed

Learning Outcomes

- Gained experience in writing and executing unit tests with well-defined test cases using PyTest
- Improved collaboration through the use of Discord for discussions and Trello for task management and distribution
- Learned to effectively track time for specific tasks using Toggl
- Applied coding standards and architectural patterns to maintain a consistent project-level codebase
- Enhanced code readability and maintainability by adding documentation with Sphinx
- Effectively utilized GitHub for version control and Git Wiki for maintaining task-based documentation

4. Sprint 1 Result Overview

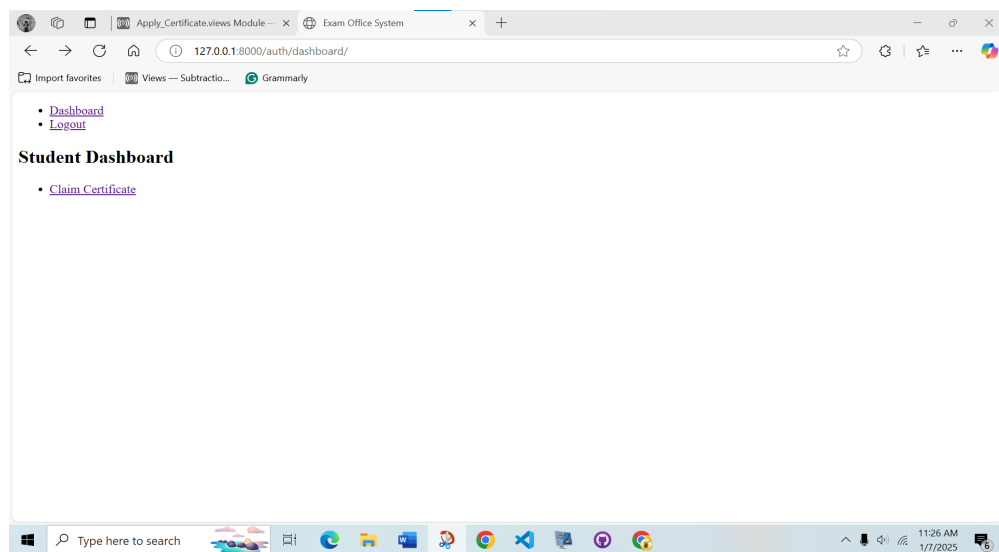


Figure 4.1: Submission page

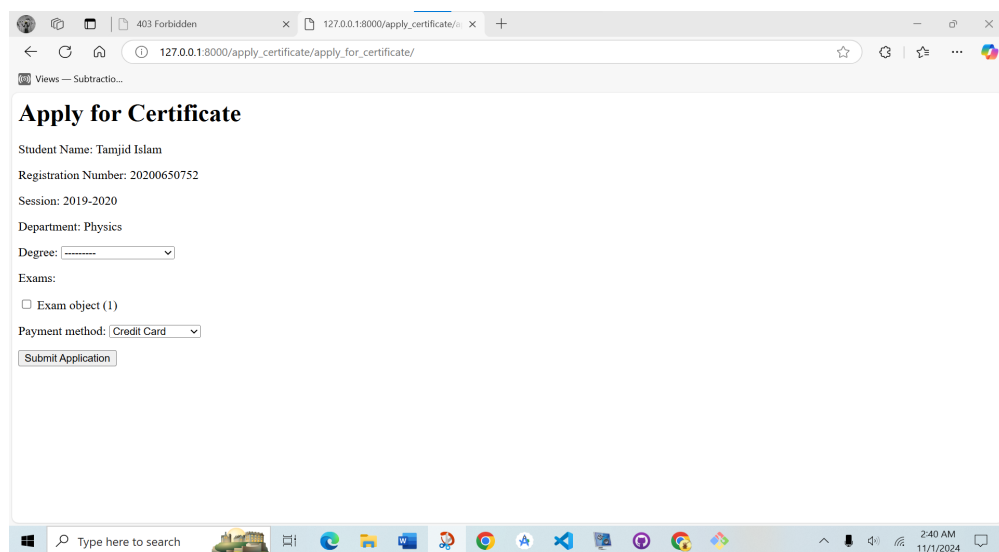


Figure 4.2: Submission page