

# Weekly Report 1

**Report Period:** 9 – 15 Dec 2025

**Prepared By:** 21 Dec 2025

## **Summary:**

We set up the spring boot project with Maven, added required dependencies, and initialized basic security configurations.

## **Task / Objective / Achievement:**

Task	Assignee	Status
Project Setup	Ang Panha	Done
Code Integration		Late
Security Implementation	Et Anchhy	Done

## **Details**

- Project Setup (by Ang Panha):
  - Set up springboot via Spring Initializr:
    - Build: Maven
    - Java: 21 LTS
    - Springboot: 3.5.8
    - Group: `edu.itc`
    - Artifact: `enrollment_scheduling_system`
    - Name: EnrollmentSchedulingSystem
    - Packaging: Jar
    - Configuration: Properties
  - Added dependencies:
    - Spring Framework:
      - Spring Boot Starter Web
      - Spring Boot Starter Actuator
      - Spring Boot Starter Data JPA
      - Spring Boot Starter Security
      - Spring Boot Starter Thymeleaf
      - Spring Boot Starter Validation
      - Spring Boot Devtools
      - Spring Boot Starter Test

- Spring Security Test
  - Flyway:
    - Flyway Core
    - Flyway MySQL
  - Thymeleaf: Thymeleaf Extra Spring Security 6
  - MYSQL: MySQL Java Connector
  - Lombok
  - H2 Database
- Designed the initial project layout:
- Note: `root` is at '`src/main/java/edu/itc/enrollment_scheduling_system`'
- `<root>/config/`
  - `<root>/controller/`
  - `<root>/dto/`
  - `<root>/model/`
  - `<root>/model/Classroom.java`
  - `<root>/model/Course.java`
  - `<root>/model/Enrollment.java`
  - `<root>/model/Role.java`
  - `<root>/model/Schedule.java`
  - `<root>/model/User.java`
  - `<root>/repository/`
  - `<root>/service/`
- Security Implementation (by Et Anchhy):
- Configurations:
    - Security Config: configures HTTP request filter and password encryption.
    - Data Initializer: implements `CommandLineRunner` to populate default roles, users, and password encoder at application startup.
    - Role-based Success Handler: implements `AuthenticationSuccessHandler` to redirect users to pages corresponding to their roles.
  - Model:
    - Role Entity: populates this entity with fields and methods.
    - User Entity: populates this entity with fields and methods.
  - Repositories:
    - Role Repository: extends JPA repository for role-specific behaviors.
    - User Repository: extends JPA repository for user-specific behaviors.
  - Services:
    - User Details Service: implements the user details service interface.
    - Registration Service: defines the registration service for newcomers.
  - Controllers:
    - Authentication Controller: route users to the authentication pages.

- Admin Controller: route users to the admin dashboard and related pages.
- DTOs:
  - Registration Form: holds the form validation used in the authentication pages.
- Thymeleaf Pages:
  - Authentication Pages:
    - Login Page
    - Register Page
  - Dashboards
    - Admin Dashboard
    - Student Dashboard
    - Teacher Dashboard