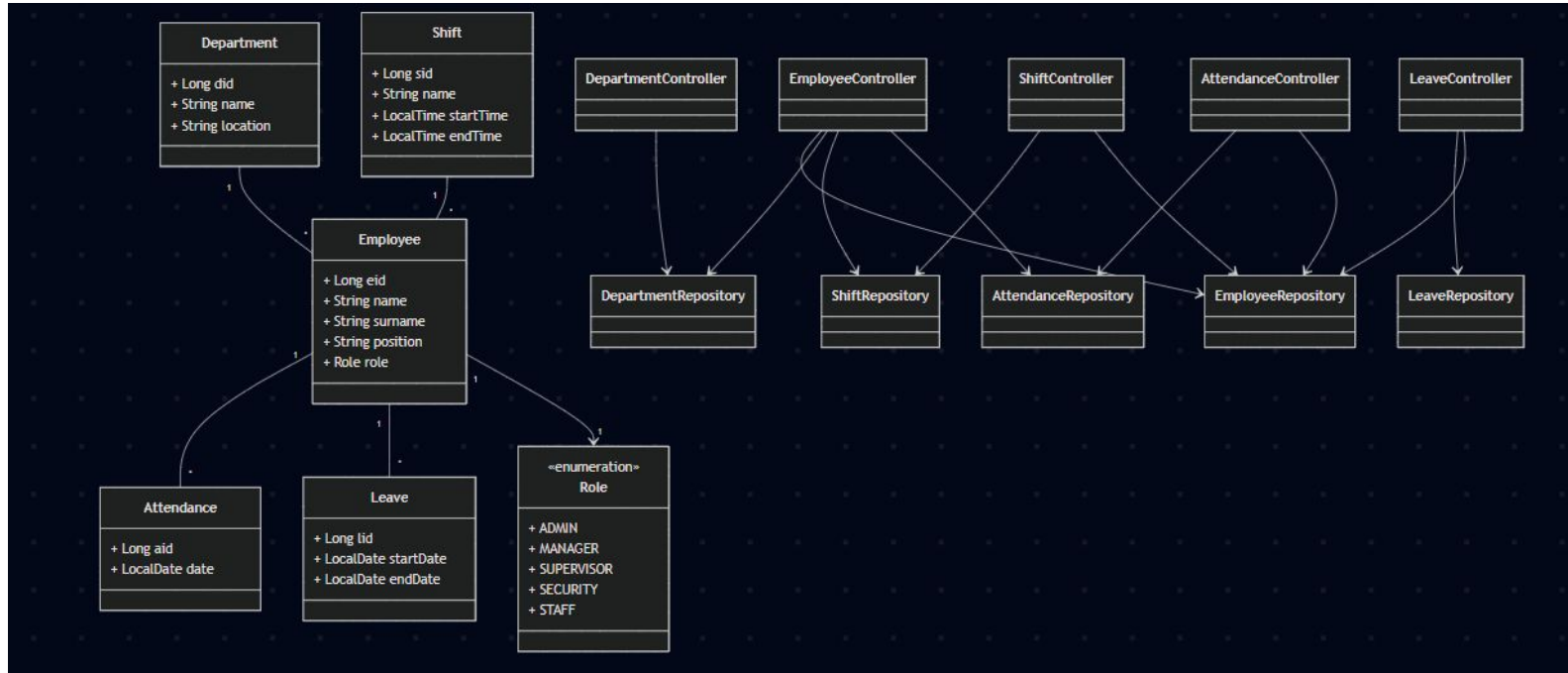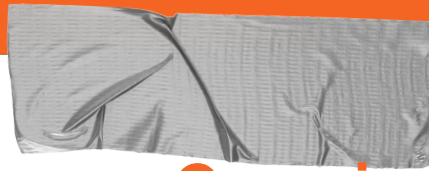# Polats Didzis Ozdemir

JAVA Final Project Defense

UML DIAGRAM

Software Overview

System for managing departments, employees, attendance, shifts, and leaves

Web-based application using Spring Boot and Thymeleaf

Features: CRUD operations, scheduling, viewing

Public landing page for general access

Ability to download files (Currently only pdf)

Architecture & Technologies

Spring Boot DevTools
Speeds up development by automatically restarting the app and live-reloading static resources whenever you change code or templates

Spring Data JPA
 Simple interfaces and get create/update/delete and search methods .It also handles database relationships and transactions without extra code.

MySQL Driver
MySQL is fast, reliable, and easy to tune and i had previous experience with it.

Thymeleaf
 We chose Thymeleaf because it's simple and stable perfect for quick testing and non-fancy UIs. It was also the templating engine used in our lectures, so i already knew how to use it without a learning another method.

Main Difficulty

New ideas popped up constantly during coding, and because my architecture/structure wasn't set up to handle them, i ended up refactoring and rewriting most of the code to make able those changes.Shortly my main difficulty was not planning.

Unfinished Ideas

➔ Domain-based email accounts for every user to login and have according permissions.

➔ Use those email accounts to let staff self-service leave or sick-day requests.

➔ Add a one-click export/download feature for attendance records, sick days, and shift schedules.

5. Software Demonstration

Thank you for your attention and time!