# ÇANKAYA UNIVERSITY • CENG 382 WEB DEVELOPMENT 2024 – 2025 Spring

## FINAL PROJECT REPORT

Project Name: Classroom Reservation

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#### 1. Project Information and Objectives

#### a. Project Scope:

The scope of this project is a web-based system that classroom reservation system that allows instructors to submit and manage classroom reservation requests during academic terms defined by the admin. The admin has full authority to create terms, manage instructors, handle conflicts and holidays, and review feedback. Instructors make class reservations requests and feedbacks then send notifications to the admin for these actions.

The platform supports responsive UI, calendar-based scheduling, conflict detection, feedback collection, and system logging, and it is built using C# with .NET Razor Pages, Entity Framework (MS SQL Server), and Bootstrap.

## b. <u>Users:</u>

Those who will primarily benefit from the new system and those who will be affected by the new system include:

Admin: Responsible for term creation, user management, reservation approvals, and system monitoring.

Instructors: Can request, edit, or cancel reservations and submit feedback about classroom conditions.

## c. Objectives:

- The system shall provide password-protected access for both admin and instructor roles.
- The system shall allow instructors to submit reservation requests via a calendar UI.
- The system shall flag scheduling conflicts and prevent approval until resolved.
- The system shall detect public holidays using a third-party API and warn users.
- The system shall collect 5-star feedback from instructors, linked to specific classes.
- The system shall log all actions (logins, submissions, approvals, etc.) for auditing.
- The system shall send email notifications for reservation actions (approval, rejection, etc.)

## 2. Project Implementation (How does your system work?)

a. Database Diagram:

Id RoleId ClaimType ClaimValue

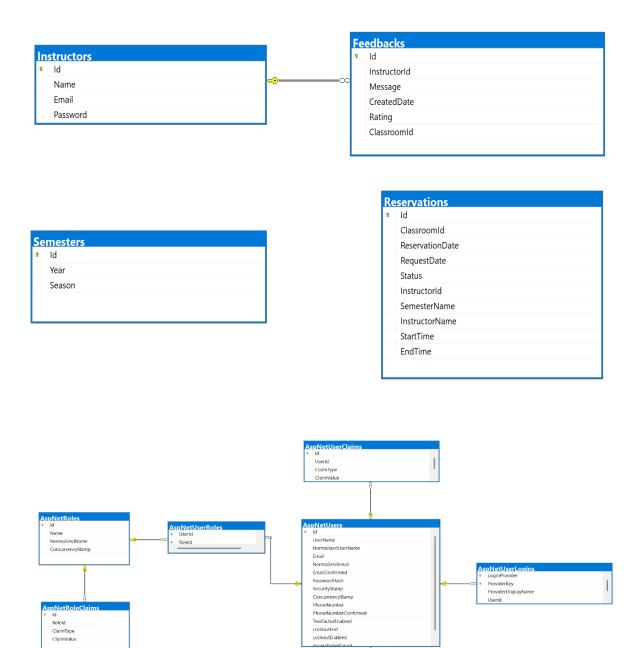


Figure 1. Database diagram

## b. Context Diagram:

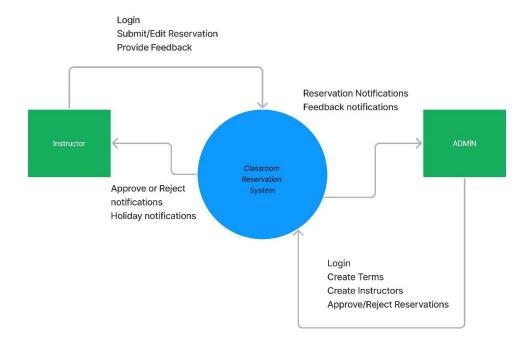


Figure 2. Context Diagram

## c. Workflow Diagrams

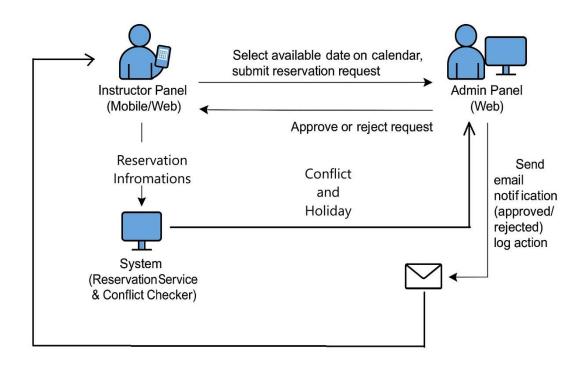


Figure 3: Workflow Diagram

## 3. Project Results (Screenshots and their explanations)

### a. Login page:

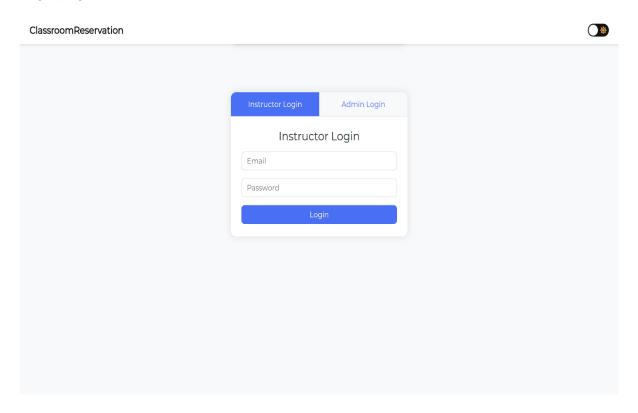


Figure 4: Login Page screenshot

## b. Admin Panel:

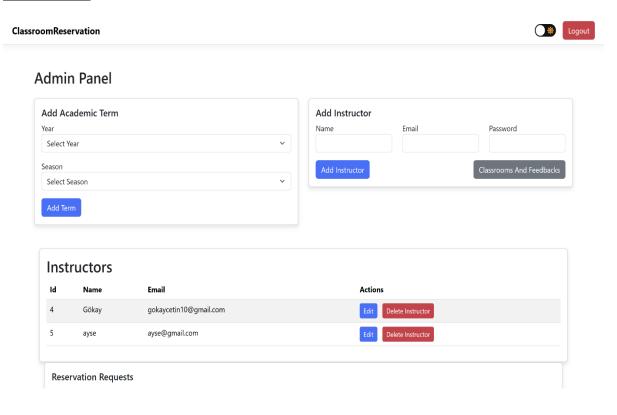


Figure 5: Admin Panel screenshot

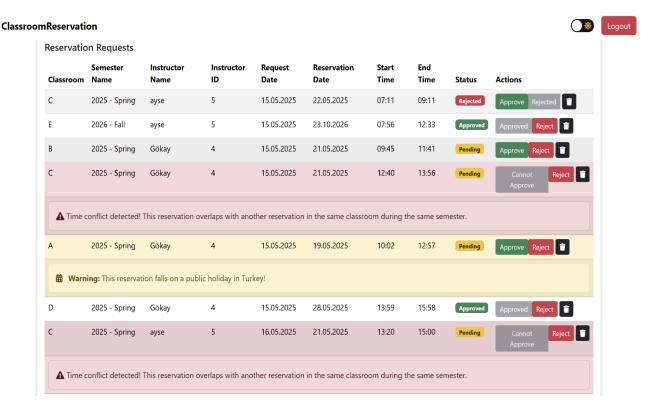


Figure 6: Admin Panel screenshot

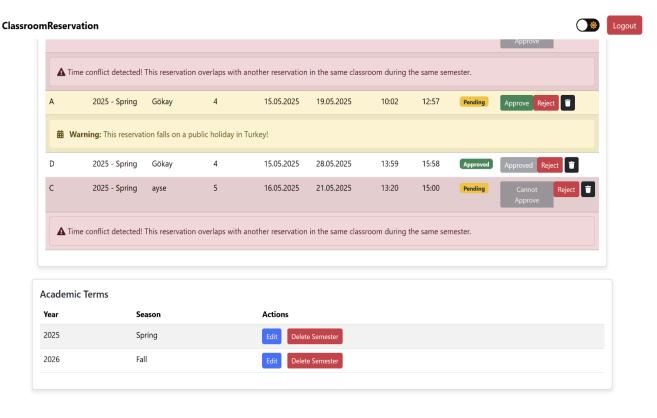
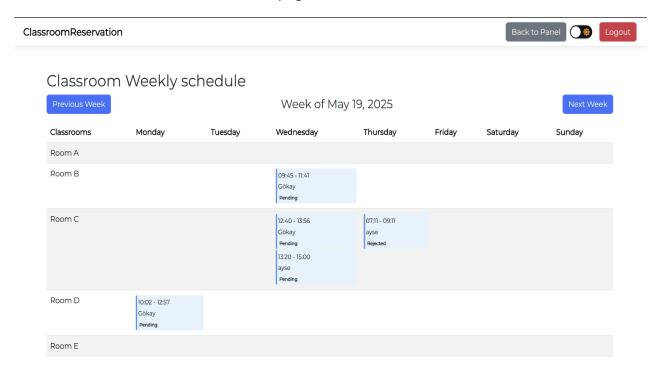


Figure 7: Admin Panel screenshot

## c. Admin Panel -Feedback and Classroom page:



## Classroom Ratings

Figure 8: Weekly schedule screenshot

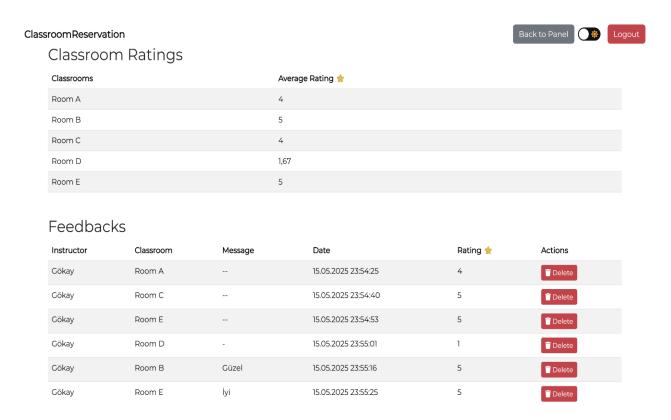


Figure 9: Classroom Rating and Feedbacks screenshot

### d. Instructor Panel:

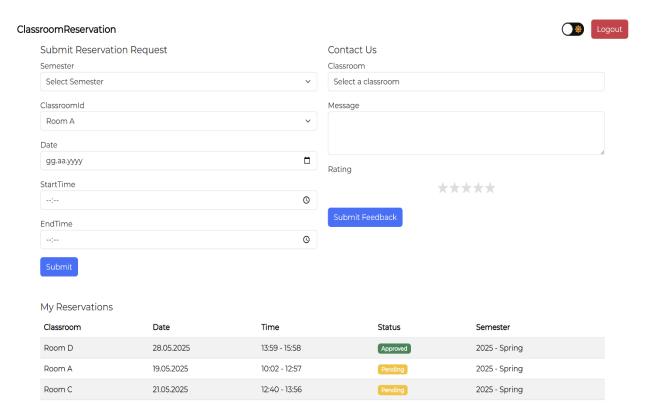


Figure 10: Instructor Panel screenshot

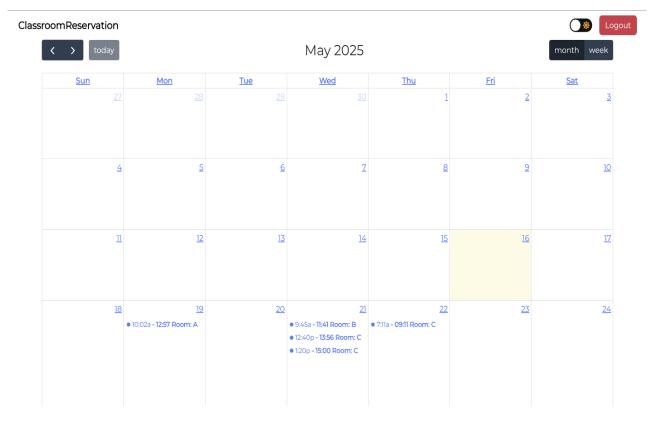


Figure 11: Instructor Panel screenshot

## e. <u>Dark-Mode:</u>

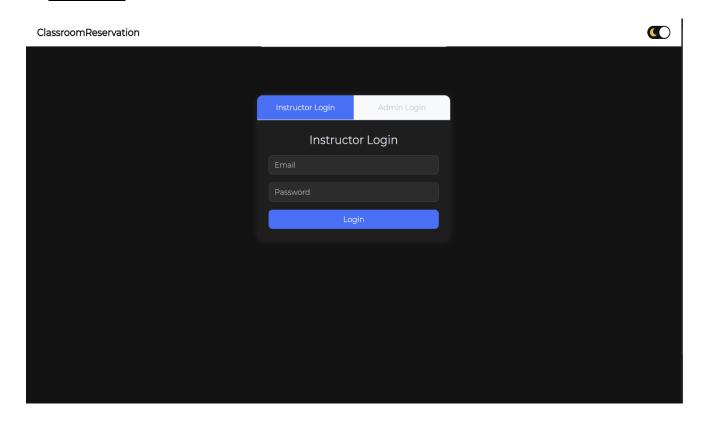


Figure 12: Login Dark Mode screenshot

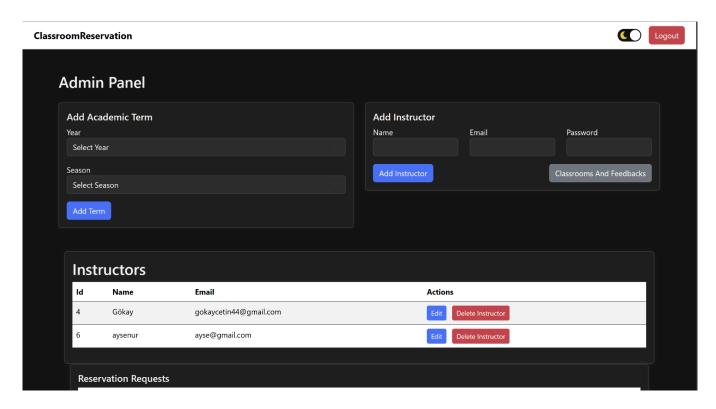


Figure 13: Admin Panel Dark Mode screenshot

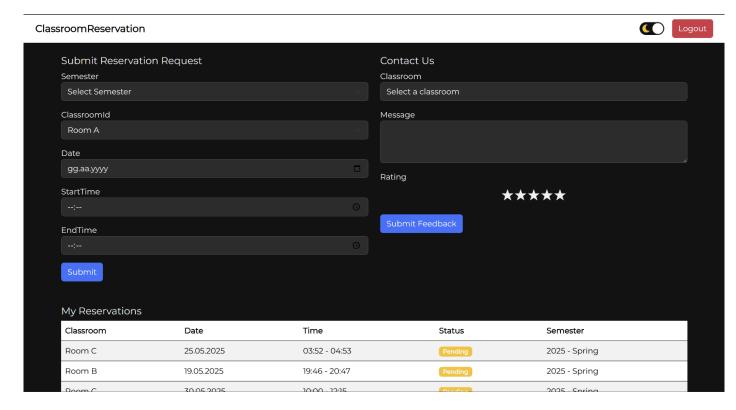


Figure 14: Instructor Panel Dark Mode screenshot

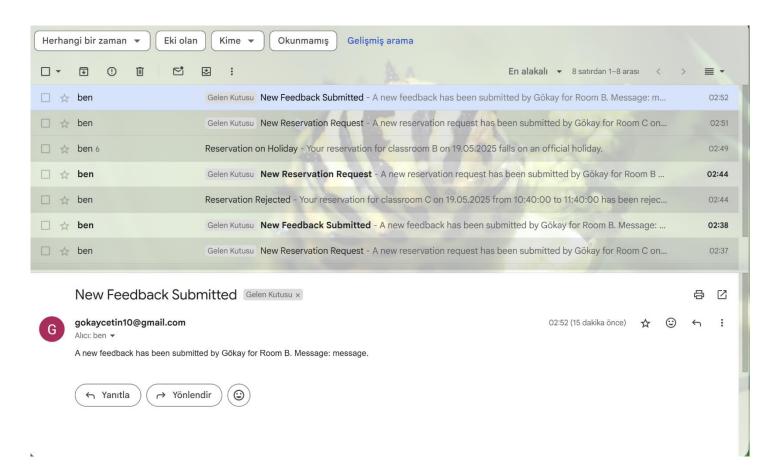


Figure 15: Admin Mail screenshot

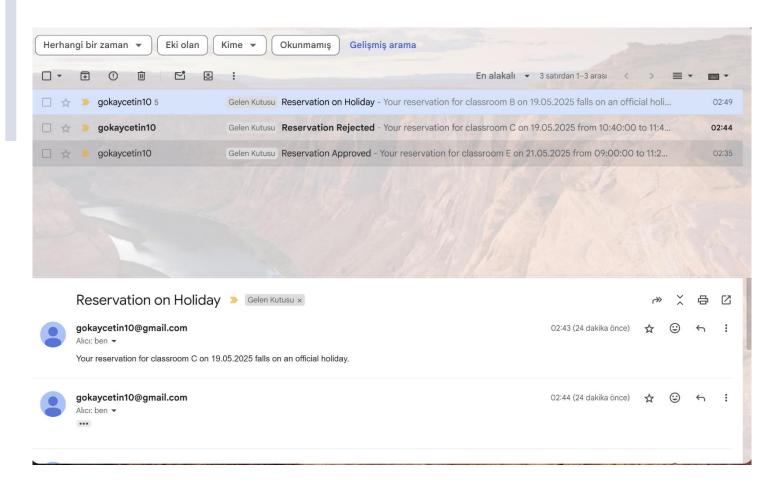


Figure 16: Instructor Mail screenshot

## 4.Demo Video

https://www.youtube.com/watch?v=EILZPPQVvg8