

**Atatürk University Computer Engineering**  
**2025-2026 Fall Semester Mobile Programming Course Term Project**  
**Res. Asst. Satuk Buğrahan Öztürk - Res. Asst. Mustafa Kaya**  
(Due Date - Project Evaluation - December 29, 2025 - 9:00 AM - 12:00 PM, E2 Classroom)  
At the specified time, be in the classroom, present your Mobile project, and receive your project score.

## **Smart Campus Health and Safety Notification Application**

### **Project Description**

This project aims to develop a system that allows users to quickly report incidents such as health, safety, environmental, lost-and-found, and technical malfunctions occurring on campus via a mobile application, view them on a map, track their status, and update them by administrators. Users report incidents through a simple interface, while the Admin role manages these notifications, changes their status, and issues emergency announcements when necessary. The application provides a centralized digital notification platform that aims to improve security and communication on campus.

### **Roles**

#### *User*

- Create incident notifications.
- List, filter, and search notifications.
- View notifications by location on the map.
- View notification details.
- Follow or unfollow notifications.
- Receive notifications when the status of a notification changes.
- Manage profile and notification settings.

#### *Admin*

- View all user notifications.
- Update notification statuses (Open → Under Review → Resolved).
- Edits the notification description if necessary.
- Admin can terminate incorrect or inappropriate notifications.

- Admin can send an emergency alert to all users instantly.

## **1. Login and Registration Screen (15 Points)**

### **Log In**

- Log in with your email address and password.
- The user role (User/Admin) is automatically assigned after successful login.
- An appropriate error message is displayed for incorrect logins.

### **Register**

- Name, email address, password, and department information are collected.
- The default role for new registrations is User.

### **Password Reset**

- An information screen simulates a password reset link being sent via email.

## **2. Home Page – Notification Flow (20 Points)**

### **Notification List**

- Each notification row contains the type icon, title, description, creation time, and status (Open/Under Review/Resolved).
- The list can be sorted chronologically from top to bottom.

### **Filtering**

- Filter by type
- Open
- Following
- Notifications within the admin's jurisdiction

## **Search**

- Keyword searches can be performed within the title and description.

## **3. Map Screen (20 Points)**

### **Pins on the Map**

- Notifications are marked with different colors or icons based on their type.
- The user can zoom in/out on the map.

### **Pin Information Card**

- Clicking on a pin displays a small card containing the type, title, and how long ago the notification was created.
- The "View Details" button on the card takes you to the notification details screen.

## **4. Notification Detail Screen (15 Points)**

### **Information Fields**

- Includes the title, type, description, creation time, location (minimap widget), and optional photos.

### **Status Management**

- Users can only view.
- Admins can update the status from this screen:
- Open → Under Review → Resolved

### **Follow / Unfollow**

- Users can add the notification to their follow list. When you unfollow, you are removed from the list.

## **5. Create New Notification Screen (15 Points)**

### **Form Fields**

- Type selection
- Title
- Description
- Location selection (device location or map marking)
- Photo addition (optional)

### **Submission**

- Form validation is performed.
- A notification message is displayed to the user when the notification is successfully created.

## **6. Admin Panel Screen (10 Points)**

### **Notification Management**

- The admin can list all notifications on a single screen.
- The type, title, description, location, and user information are displayed for each notification.

### **Status Update**

- The admin can instantly change the status of a notification as needed:
- Open → Under Review → Resolved

### **Issuing Emergency Notifications**

- The admin can issue emergency notifications to all users through a dedicated module.

## **7. Profile and Settings Screen (5 Points)**

### **Profile Information**

- Name, surname, email, user role, and unit information are displayed.

### **Notification Settings**

- The user can select which types of notifications they want to receive.

### **Followed Notifications**

- All notifications followed by the user are listed.

### **Log Out**

- Logs out of the application.

## **8. Notification and Reminder System (10 Points)**

### **Status Updates**

- The user is notified when the status of a notification they are following changes.

### **Urgent Notifications**

- Urgent notifications issued by the admin are sent to all users.

### **Project Submission**

- The project must be completed in groups of 2-3 people. Each student in the group must contribute equally to the project.
- All students must upload the project to the designated submission section on the DBS.

- Files to be uploaded to the DBS:

- o Project file (Zip)

- o Technical report (PDF)

- ☐ Project summary

- ☐ Screenshots and screenshots

- ☐ Technologies used

## **Git Usage**

- Git usage is mandatory.

- The Git repository must contain:

- o Regular commit history

- o Step-by-step progress showing the development process.

## **Use of Artificial Intelligence**

- Directly generating code with AI is prohibited. Complete code sections such as screens, functions, classes, components, etc. cannot be taken from AI.

- Adding code received from AI to a project without understanding it is prohibited. Students must be able to explain all the code they add during the presentation.

- AI may only be used for consulting purposes. Non-code-generating support such as error descriptions, concept learning, and feedback are permitted.

- The Git history must be organized, and the development process must be visible. Large blocks of code uploaded at once are considered suspicious. If necessary, a small section can be rewritten during the presentation.

- If an AI usage violation is detected, the relevant section will not be considered for evaluation. If necessary, the project may be completely invalidated.