Bilkent University

Department of Computer Engineering

Senior Design Project

Automated Attendance Taking System (AATS)

Final Report

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**Final Report**

Automated Attendance Taking System (AATS)

# 1. Introduction

# 1.1 Design Trade-Offs

# 1.1.1 Cost vs. Accuracy

# 1.1.2 Space vs. Speed

# 1.2 Interface Documentation Guidelines

# 1.3 Engineering Standards

# 1.4 Definitions, acronyms, and abbreviations

# 2.2 Software

# 2.2.1 Server Side

# 2.2.1.1 Requirements

- PHP Version 7.2

- InnoDB supporting storage engine database

- SSL Secured Server through HTTPS

# 2.2.1 Client Side

# 2.2.1.1 Requirements

- Android 4.4 version and above

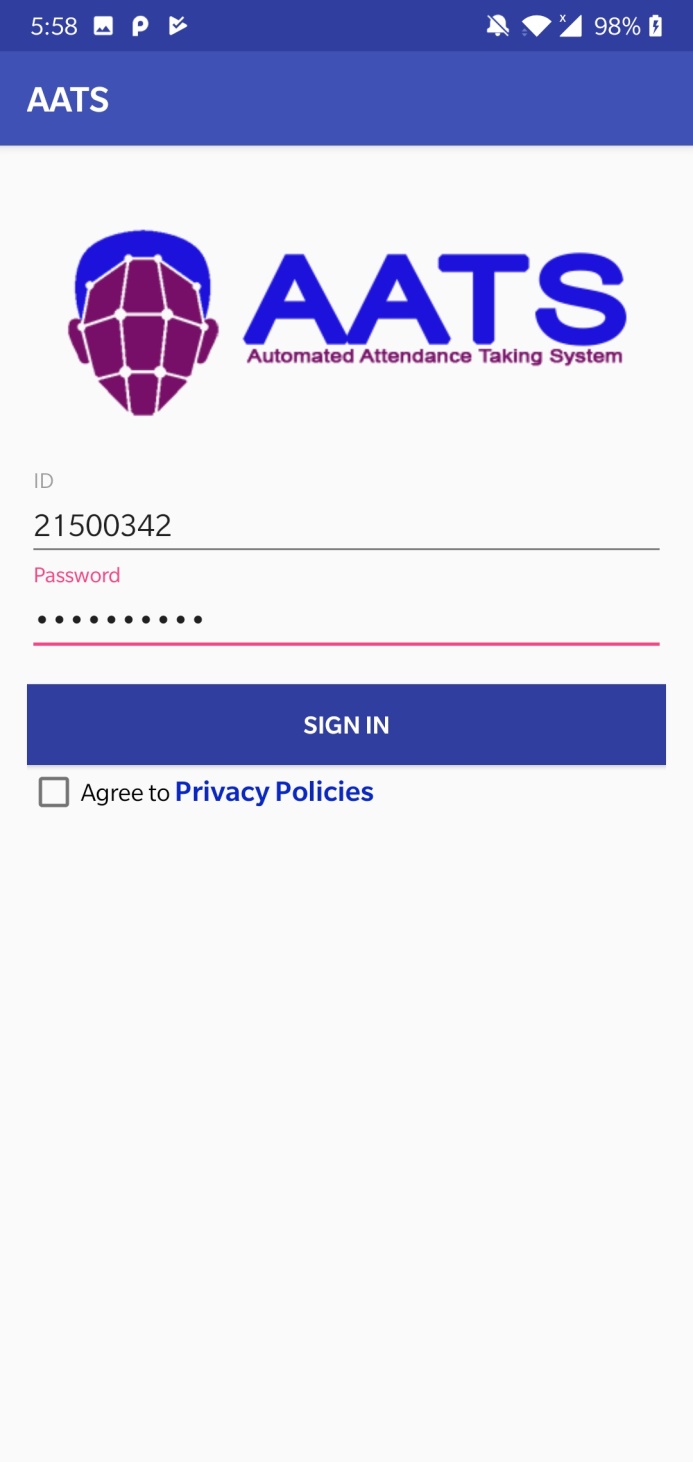
- Permission to use internet connection

- Permission to use the camera feature

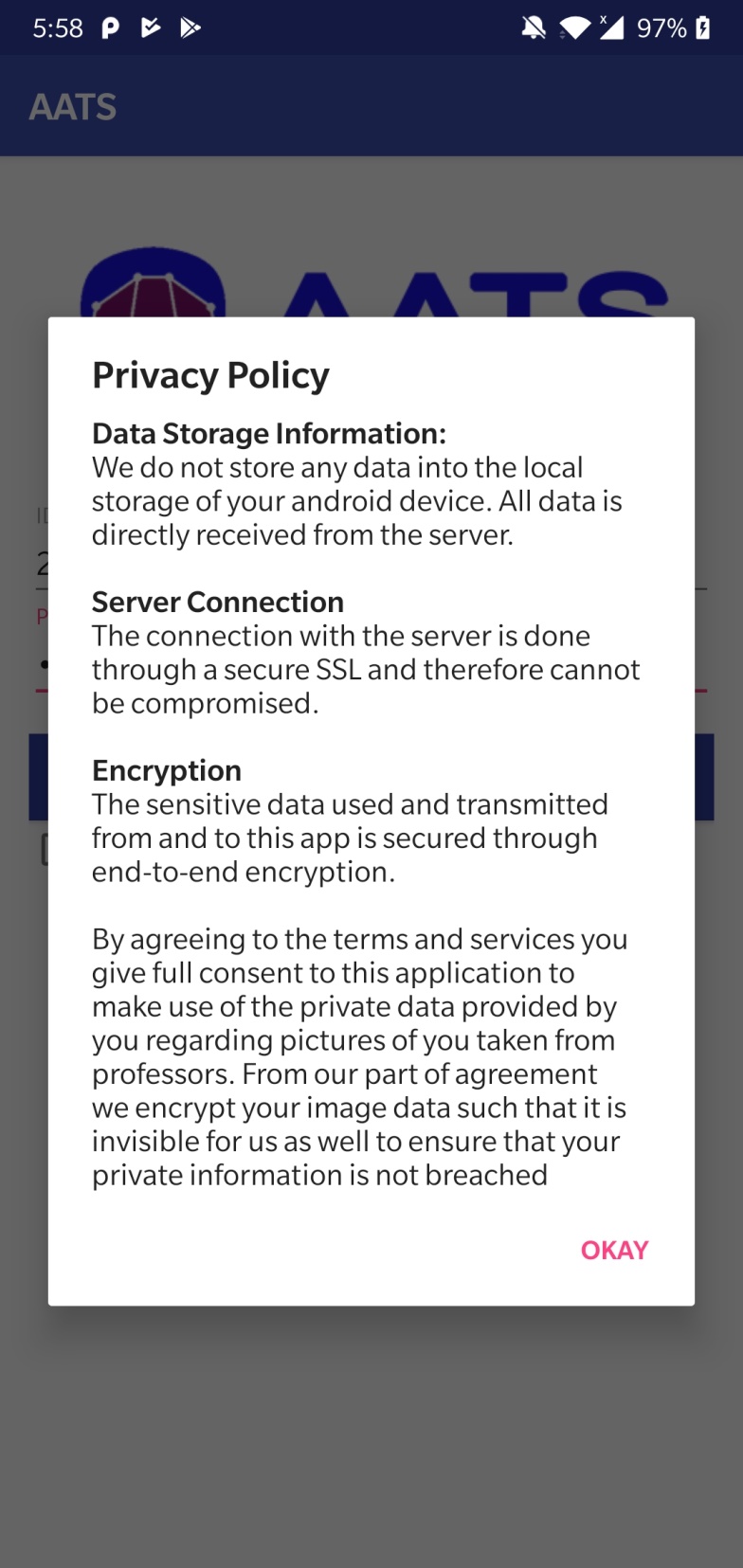
# 2.2.1.2 User Interface

# 2.2.1.2.1 Login Screen

Both professors and students can login through the same screen using their ID and password.

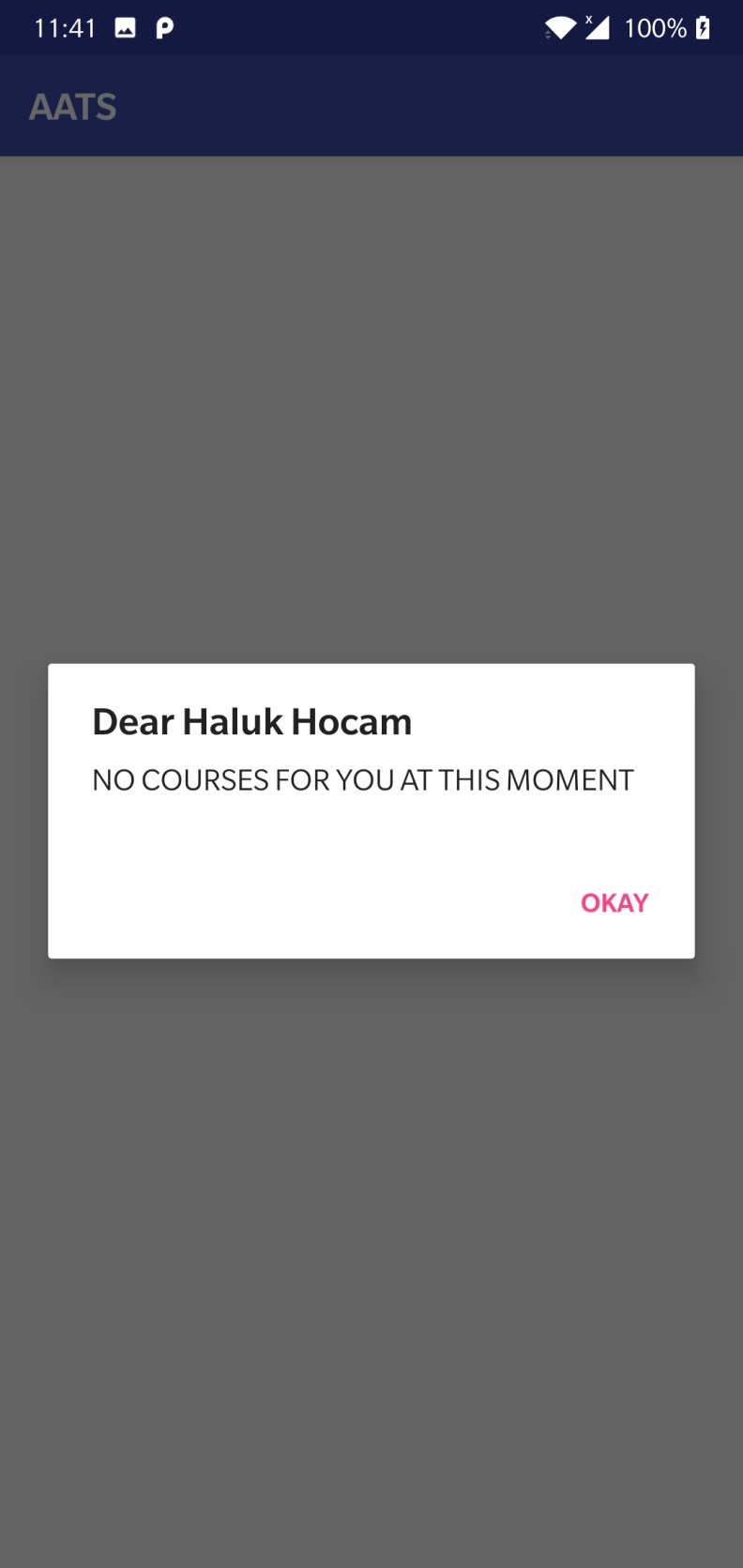


# Privacy Policies



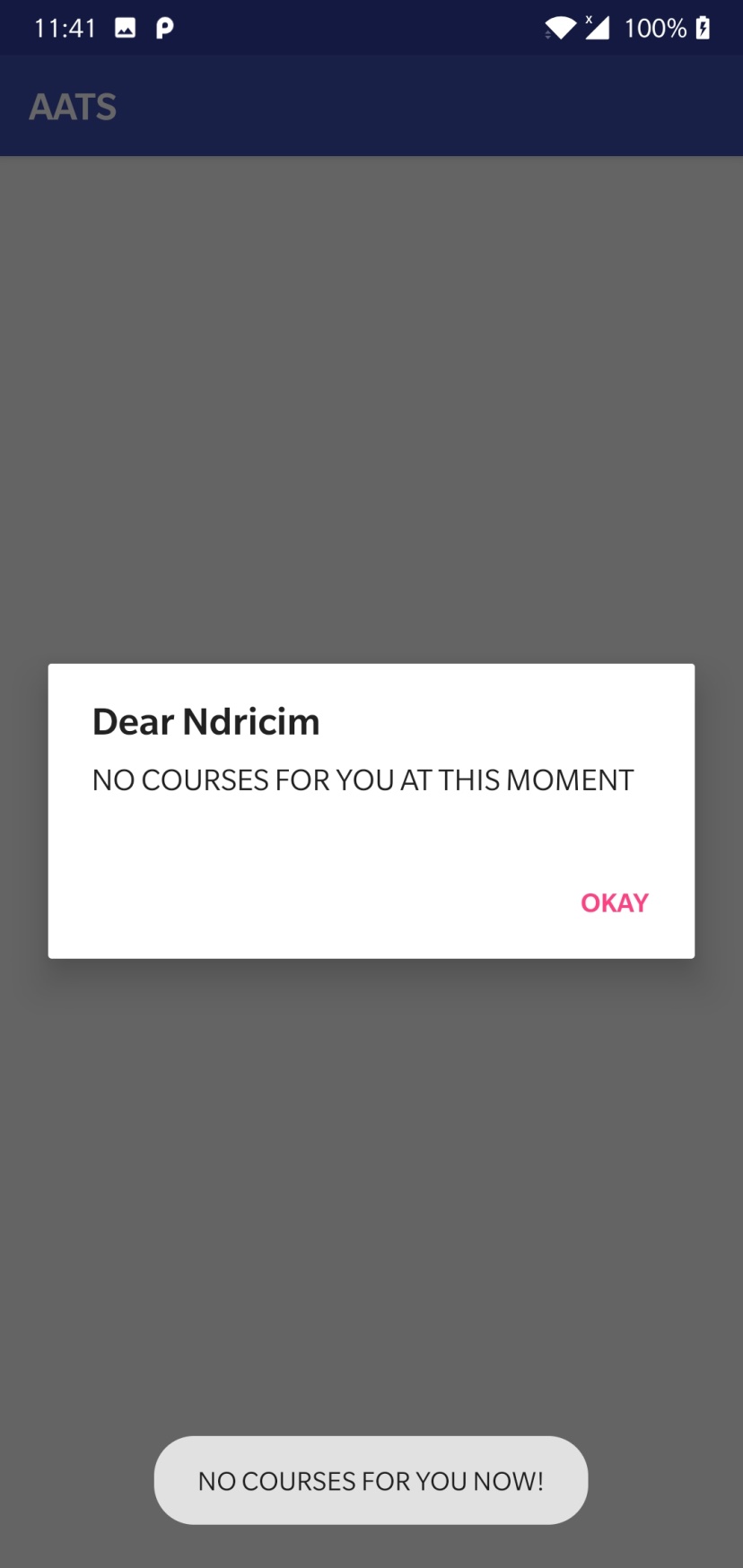
# 2.2.1.2.2 Professor No Course Screen

When the professor logs in outside of the class hours a small dialog box appears notifying them that there are currently no courses at that login time for the professor.



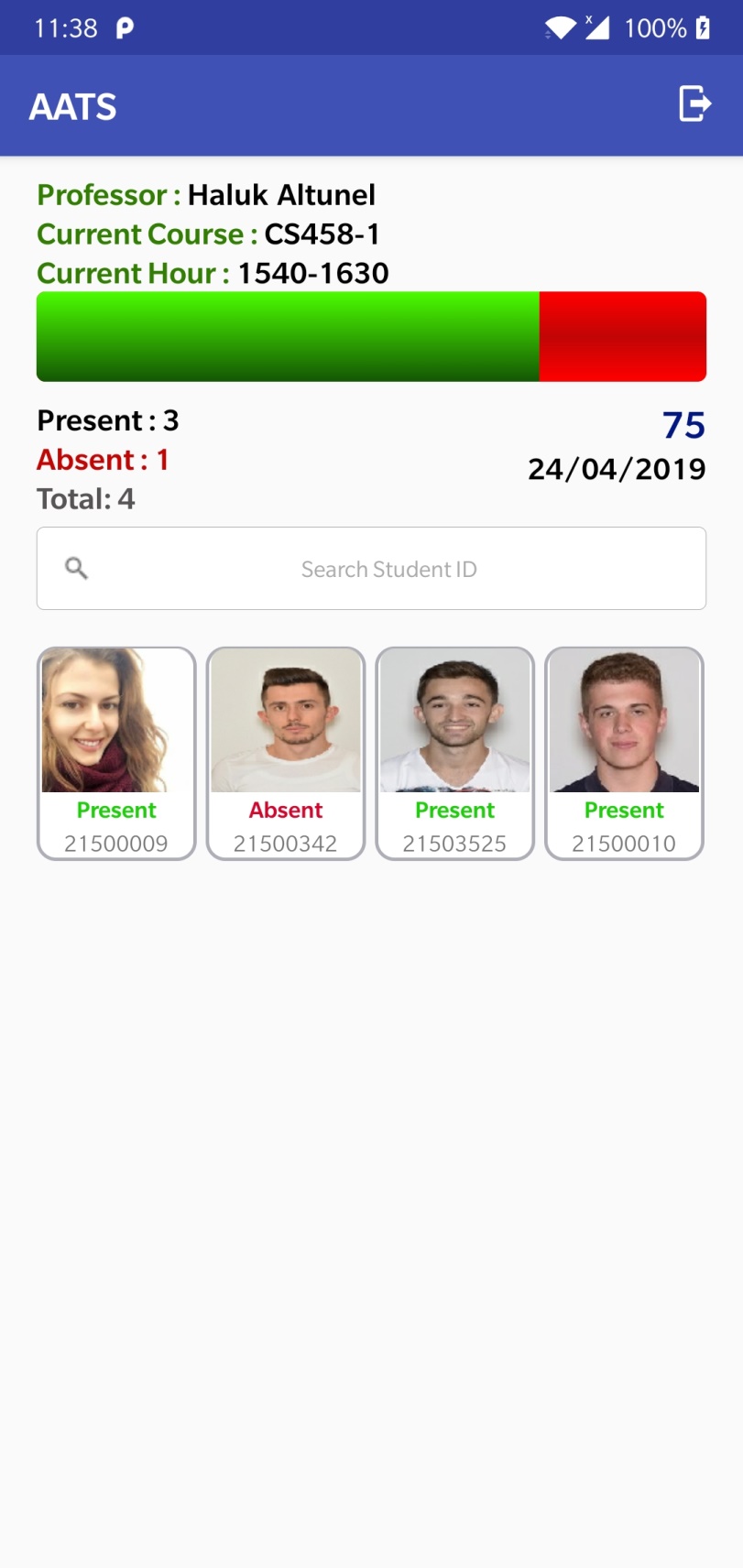
# 2.2.1.2.3 Student No Course Screen

When the student logs in outside of the class hours a small dialog box appears notifying them that there are currently no courses at that login time for the student.



# 2.2.1.2.3 Professor Main Screen

When the professor logs in successfully the following screen appears, where the live results of the raspberry pi image recognition show which students were marked present and which not after the recognition. Other relevant data regarding attendance ratio for the class can also be seen.



# 2.2.1.2.3 Student Main Screen

When the student logs in successfully the following screen appears, where the live results of the student’s attendance status appears. The following example shows that the student was not recognized for that hour.

