Department of

COMPUTER SCIENCE AND ENGINEERING

Senior Design Day 2025

INFORMATION TECHNOLOGY

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AttendU – Group 3

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Abstract:

AttendU aims to increase classroom efficiency by automating the traditional manual attendance-taking process and reducing instructor workload. Instead of manual roll calls, students can securely log in to our system and record their own attendance, which is then verified in real-time using facial recognition. To further ensure authentication, we've implemented IP-geofencing to verify that students are physically present during scheduled class sessions.

Students can access an interactive dashboard to view their attendance history, receive automated notifications of upcoming classes, and be alerted about class check-ins. Instructors can monitor attendance records in real-time, make modifications to attendance records, and export class attendance data in the form of a CSV file. Additionally, instructors are automatically notified when a student reaches five or more recorded absences, allowing for early intervention. Administrators maintain oversight through role-based access controls, which allows them to create, manage, and remove users and classes, while also ensuring secure and efficient system operation.

Our system integrates facial recognition, IP geofencing verification, and smart notification features to provide a reliable, user-friendly, and more modern solution for managing university attendance. Overall, AttendU streamlines attendance management and enhances the classroom experience for both instructors and students.

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