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**CSE6224 Software Requirement ENG**

**Project Part 1**

**Title: Campus Event Check-in System**

**with Student ID and Payment Integration**

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## 

## **Vision**

To develop a clever, safe, and intuitive digital platform that integrates student ID authentication and payment processing to modernize campus event participation, improving accuracy, efficiency, and engagement for both event organizers and students.

## **Scope**

The scope of this project encompasses the design, development, implementation, and maintenance of a Campus Event Check-in System integrated with the university’s student ID database and payment processing platform. The system aims to streamline event registration, attendance tracking, and financial transactions associated with campus activities. The platform will include the following key features and functionalities:

1. **Student Authentication via the University ID System**Allow students to securely log in using their university-issued student ID credentials, which ensures smooth access and secure authentication.
2. **Event Registration and Check-In Management**Allow students to register for events online and check in digitally at the event venue through QR codes, NFC scans, or student ID validation.
3. **Ticketing and Payment Integration**Support ticket purchases and on-site transactions through secure integration with the university's payment gateway, accommodating various payment options.
4. **Real-Time Attendance Tracking**Provide real-time monitoring of event attendance, enabling organizers to access up-to-date participation statistics and manage entry flow efficiently.
5. **Organizer Dashboard and Event Analytics**Provide event organizers with a centralized dashboard to create, promote, and manage events, along with analytics for attendance, revenue, and user engagement.
6. **Automated Notifications and Communication**Send automated confirmation emails, payment receipts, reminders, and follow-ups via email or push notifications to attendees and organizers.
7. **Reporting and Data Export**Create reports on participation rates, ticket sales, and student engagement and allow for data exporting for administrative or academic purposes.
8. **Compliance and Security**Ensure compliance with data protection policies and university IT security standards, maintaining the privacy and integrity of student information.

## **Goals**

The Campus Event Check-in System aims to improve event management and student engagement through digital integration. The platform will achieve the following goals:

1. Simplify event check-in using student ID or QR code-based authentication.
2. Integrate with university systems to process payments and verify students securely.
3. Use real-time digital tracking to improve the accuracy of attendance.
4. Enhance user experience through a user-friendly interface for registration and check-in.
5. Support organizers with tools for event creation, promotion, and analytics.
6. Ensure data security and compliance with university policies.
7. Provide scalability for use across various types of campus events.
8. payments for register?
9. provide the system to an event for on-site purchase or online buying ticket?
10. checking the attendance details with the ticket details？(ticket verification)
11. use student id to login the system (only for university student)
12. website just for an event or others university’s events (multiple)
13. can see details of event, can view the events that register and pay already
14. can scan the attendance on that event day
15. discuss mode can or not using ms team and write some chat without recording
16. can use google docs instead of microsoft word because docs also can view the history

For this Campus Event Check-in System with Student ID and Payment Integration

1. Login
   * Admin login with fixed account
   * Student login with student ID
2. After User Login
   * camera scan attendance function
   * real time notification to remind the user the date of the event
   * register the event online?
   * payment base on multiple method ( register fee,event purchase fee )
   * how to design in the system (register on-site)?
   * ( optional ) event dashboard (can view the event that post by the admin)
   * received payment receipt(system,email)
3. After Admin Login
   * generate QR code
   * report for user’s payment
   * real time attendance tracking (show total ticket and total people attend
   * (optional) admin can add the new event in the admin dashboard