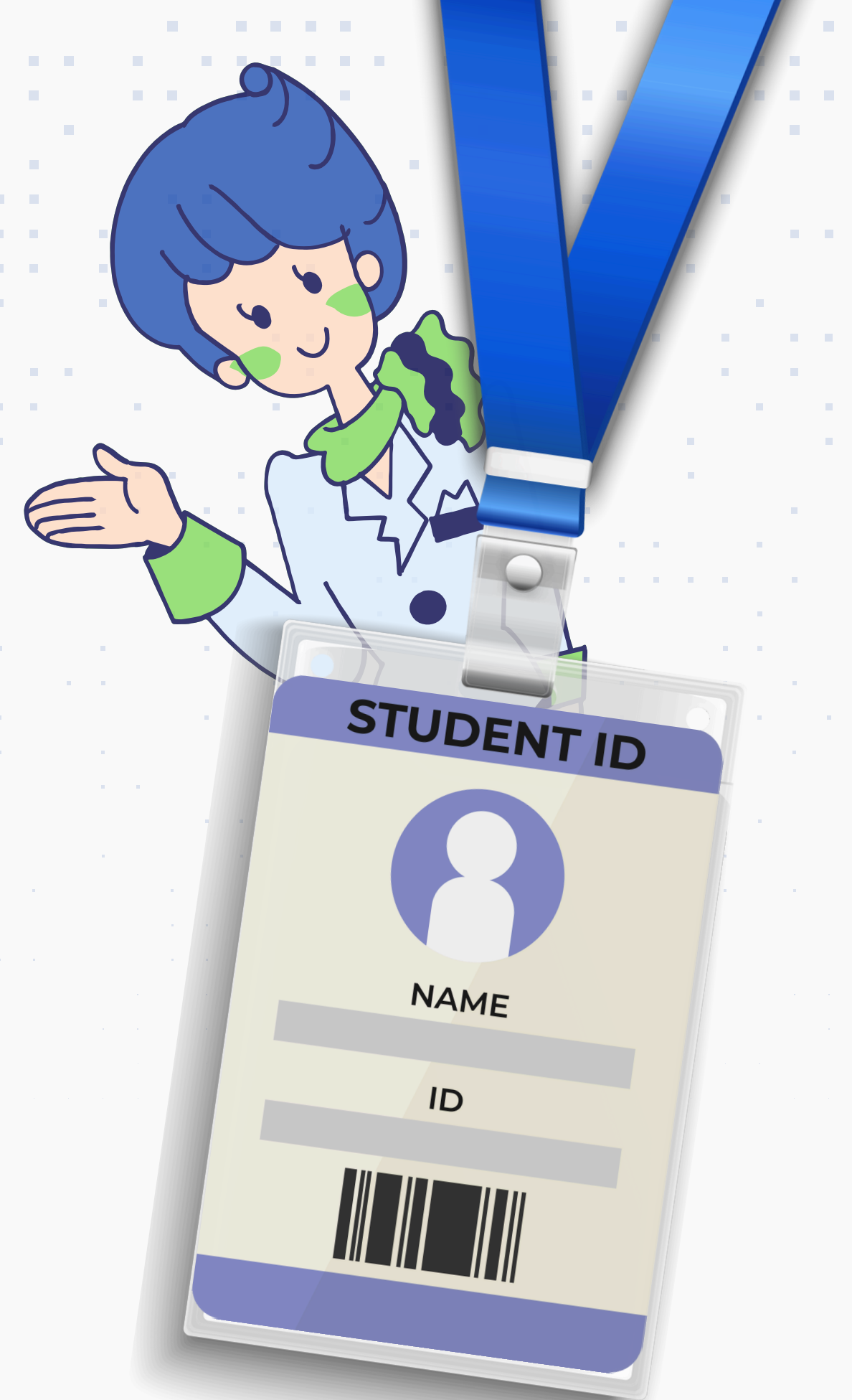


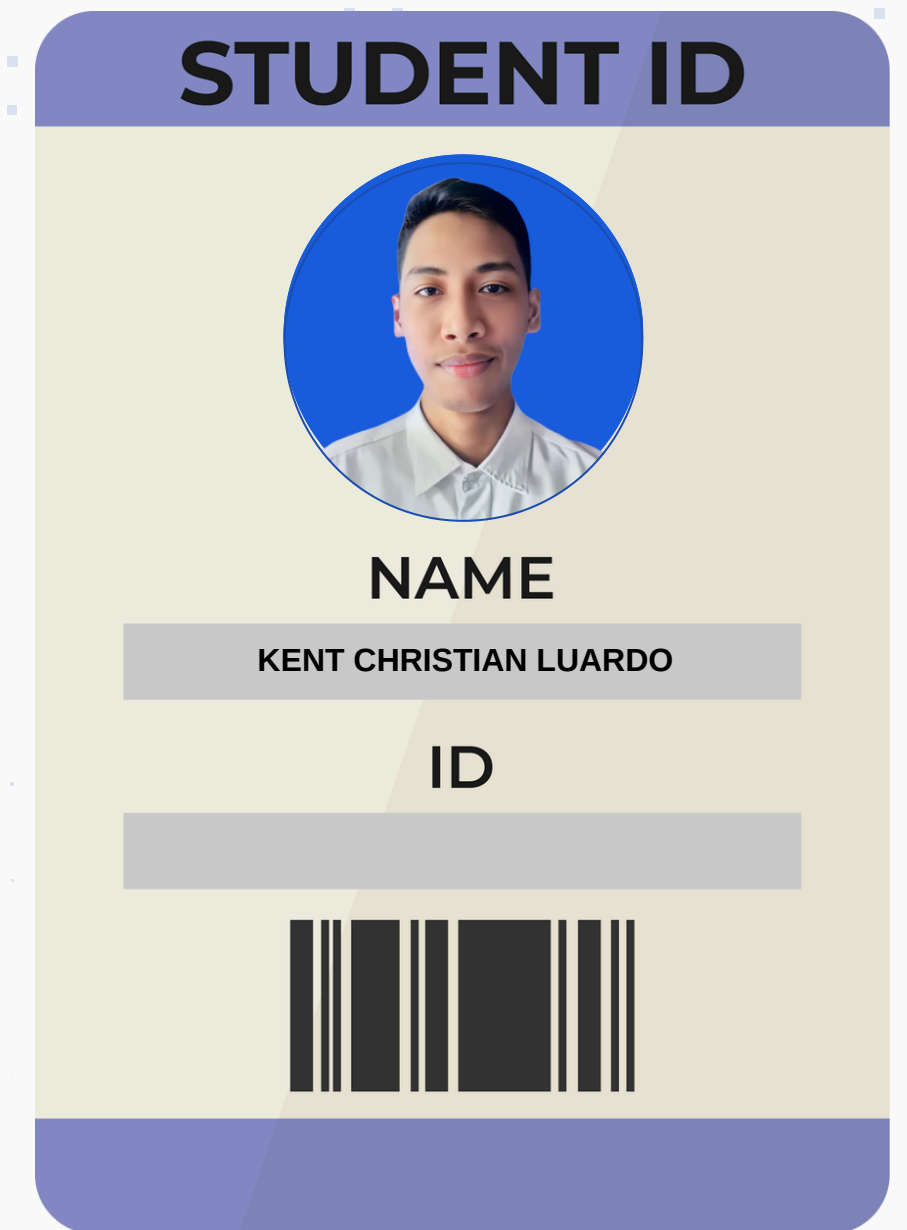
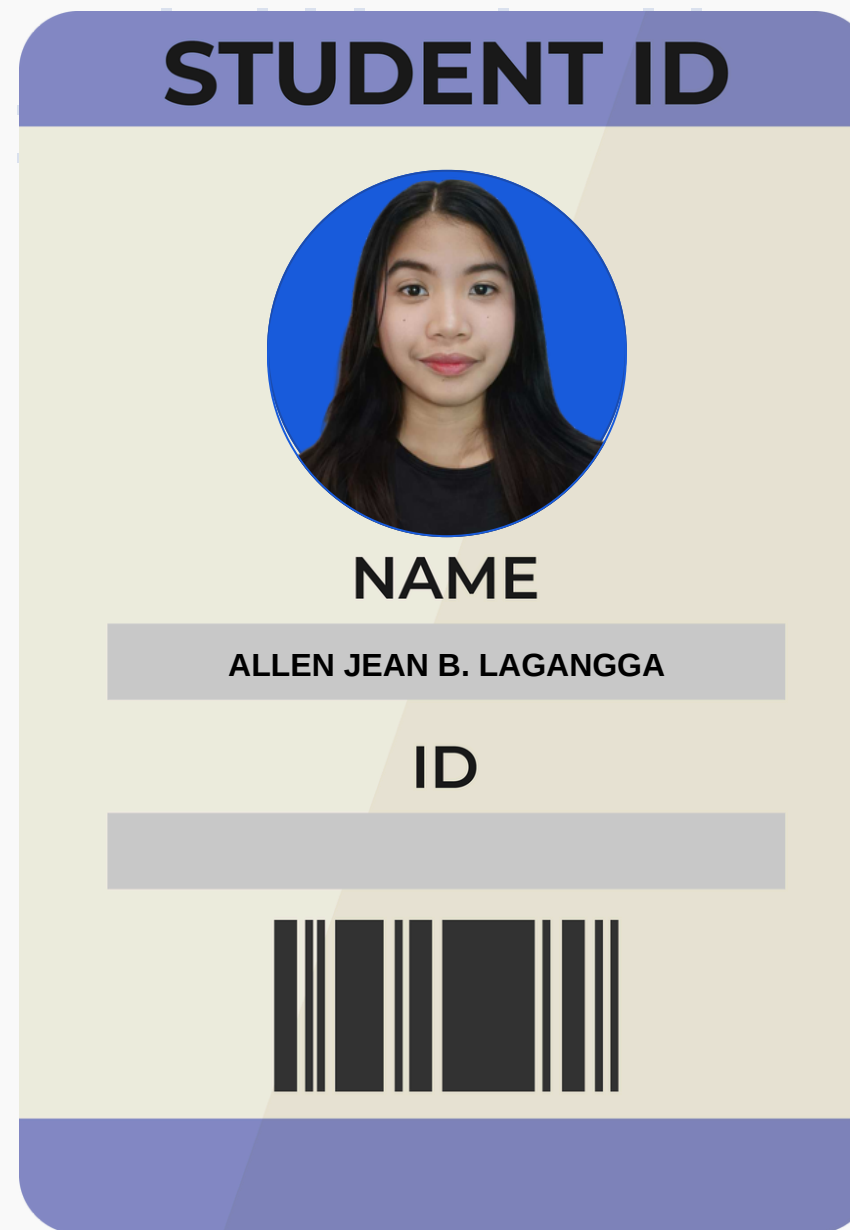
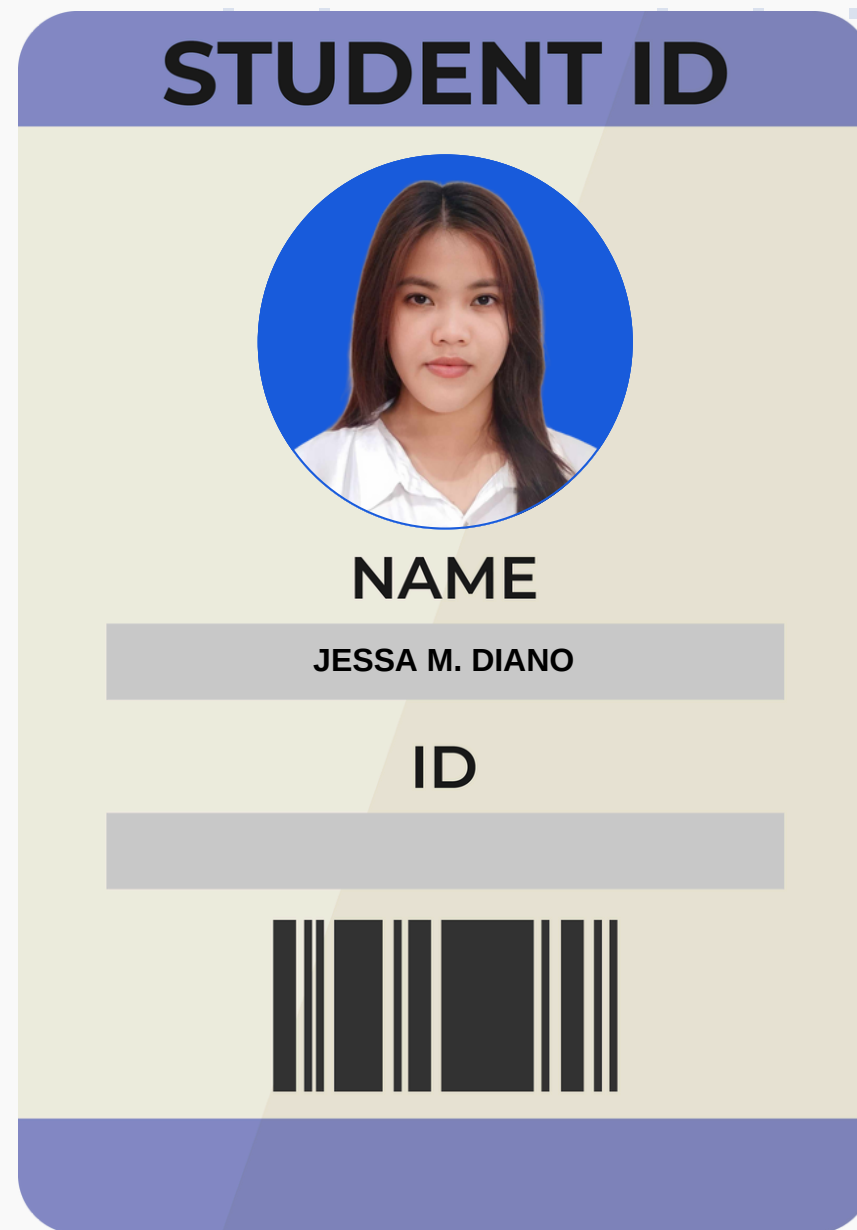


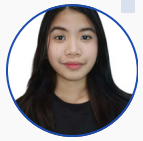
PROJECT X: Automated Attendance Tracking System Requirements

PRESENTER: ALLEN JEAN B. LAGANGGA JESSA M. DIANO KENT CHRISTIAN LUARDO



J.A.K. OF ALL TRADES



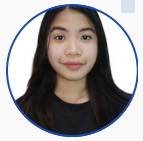


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System Overview:

The Automated Attendance Tracking System ensures efficient, accurate, and secure attendance monitoring through barcode scanning, cloud-based storage, and secure access controls.





System Users:

The system shall support three primary roles:

- R00.01: **Administrator**
- R00.02: **Instructor**
- R00.03: **Student**





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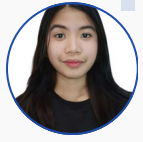
1. User Management Requirements

- **R01.01** Authorized users shall register instructors and upload their ID photos, full name, instructor ID number, program, and faculty details.
- **R01.02** Authorized users shall register students and upload their ID photos, full name, student ID number, year level, program, and faculty details.
- **R01.03** Authorized users shall be able to amend, delete and view all data in the system, ensuring proper management and oversight of records.



1. User Management Requirements

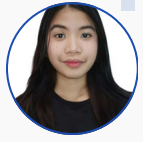
- **R01.04** Authorized users shall allow an authorized user to have one or more registered devices for attendance recording.
 - **R01.04.01** Each registered device shall be assigned to only one instructor.
 - **R01.04.02** Registered devices can be:
 - **R01.04.02.01** Mobile phones
 - **R01.04.02.02** Computers
- **R01.05** Authorized users shall register courses and assign course details.
- **R01.06** Authorized users shall assign instructors to courses, specifying the sections they will manage and their corresponding schedules.



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1. User Management Requirements

- **R01.07** Authorized users shall enroll students in courses, specifying the assigned instructor, schedule, and section.
- **R01.08** Authorized users shall unregister an instructor's registered device when necessary to maintain security.
- **R01.09** Authorized users shall track and locate a registered instructor's lost device to prevent unauthorized access.



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1. User Management Requirements

- **R01.10** Authorized users shall generate reports.
 - **R01.10.01** Reports shall include:
 - **R01.10.01.01** Lists of registered instructors per faculty
 - **R01.10.01.02** List of registered students per faculty
 - **R01.10.01.03** List of registered courses per faculty



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2. Attendance Tracking Requirements

- **R02.01** Authorized users shall record attendance using barcode scanning via registered devices.
- **R02.02** Authorized users shall mark students as "dropped" if they accumulate three consecutive absences.
- **R02.03** The system shall generate attendance reports and allow authorized users to download attendance records in CSV format on a monthly basis for further analysis and record-keeping.



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2. Attendance Tracking Requirements

- **R02.04** The system shall allow students to:
 - **R02.04.01** Access their personal attendance records via a designated student portal.
 - **R02.04.02** Track their attendance history and monitor their presence across different courses.



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3. Security Requirements

- **R03.01** The system shall implement Role-Based Access Control (RBAC) to ensure appropriate data access permissions.
- **R03.02** The system shall employ data encryption to maintain confidentiality and protect sensitive information.
- **R03.03** The system shall require Multi-Factor Authentication (MFA) for instructor logins to enhance security.
- **R03.04** The system shall utilize HTTPS with SSL encryption to secure all communications.



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4. Infrastructure & Deployment Requirements

- **R04.01** The system shall utilize a secure and scalable cloud-based database for data storage.
- **R04.02** The system shall be both accessible and scalable to accommodate increased usage.
- **R04.03** The system shall function as a standalone platform and will not include API integration with other university systems at this stage.



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5. Project Timeline

- **R05.01** An initial system review shall be conducted on May 15, 2025.
- **R05.02** The system shall be fully deployed and operational by May 22, 2025.

THANK YOU

