

Use case descriptions

Phase_1

1. User Authentication

- **Use Case Identifier and Name:** UC1 - User Authentication
- **Initiator:** Administrator/HR Personnel
- **Pre-condition(s):**
 - The user must have valid credentials (username and password).
 - The system must be operational and accessible.
- **Post-condition(s):**
 - The user is successfully authenticated and granted access to the system.
 - If authentication fails, the user is informed and prompted to re-enter credentials.
- **Main Success Scenario:**
 1. The user navigates to the login page of the system.
 2. The user enters their username and password.
 3. The system validates the credentials against the database.
 4. If the credentials are correct, the system authenticates the user and grants access.
 5. The user is redirected to the appropriate dashboard or main screen.
 6. The user is logged in and can access authorized functionalities.
- **Goal:**
 - To verify the identity of users and grant them access to the system based on their credentials.

2. User Management

- **Use Case Identifier and Name:** UC2 - User Management
- **Initiator:** Administrator/HR Personnel

- **Pre-condition(s):**
 - The user must be logged in with sufficient permissions to manage user accounts.
 - The system must have existing user accounts that can be managed.
- **Post-condition(s):**
 - User account information is updated, deleted, or modified as requested.
 - The changes are saved to the system database and reflected in the user management interface.
- **Main Success Scenario:**
 1. The user accesses the user management section of the system.
 2. The user searches for the specific user account to manage.
 3. The user selects an action (e.g., update, delete) for the chosen account.
 4. The user enters the required information or selects the appropriate options for the action.
 5. The system processes the request and updates the user account accordingly.
 6. The system confirms the successful completion of the action to the user.
- **Goal:**
 - To allow administrators and HR personnel to manage existing user accounts, including updating information and handling account statuses.

3. User Registration

- **Use Case Identifier and Name:** UC3 - User Registration
- **Initiator:** Administrator/HR Personnel
- **Pre-condition(s):**
 - The system must be operational and accessible.
 - The administrator/HR personnel must have valid permissions to register new users.
- **Post-condition(s):**
 - A new user account is created in the system with the provided information.

- The new user's details are stored in the database, and they receive initial login credentials if applicable.
- **Main Success Scenario:**
 1. The user navigates to the user registration section of the system.
 2. The user fills out the registration form with required details (e.g., name, photograph, role).
 3. The user submits the form.
 4. The system validates the input data.
 5. The system creates a new user account and stores the information in the database.
 6. The system confirms successful registration and may provide initial login credentials or instructions.
- **Goal:**
 - To add new user accounts to the system with necessary details and set up initial access.

4. Attendance Marking

- **Use Case Identifier and Name:** UC4 - Attendance Marking
- **Initiator:** Employee
- **Pre-condition(s):**
 - The employee must be registered in the system.
 - The facial recognition system must be operational and properly calibrated.
- **Post-condition(s):**
 - The employee's attendance is recorded in the system with the time and date.
 - The employee receives confirmation of successful attendance marking.
- **Main Success Scenario:**
 1. The employee approaches the attendance marking station with the facial recognition camera.
 2. The system captures the employee's image.

3. The system performs facial recognition and matches the image to the employee database.
 4. The system marks the employee's attendance with the current time and date.
 5. The system confirms successful attendance marking to the employee.
 6. The attendance record is saved in the database.
- **Goal:**
 - To accurately record the attendance of employees using facial recognition technology.