

East West University

Assignment 1

Semester: Spring-2022

Course Title: Information System Analysis and Design

Course Code: CSE347

Submitted by-

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Functional Requirements:

- 1. User Accounts: Visitors should be able to sign up and log in to an account.
- 2. **Ticket Booking**: Visitors can buy museum tickets through the app.
- 3. **Artwork Information**: The app should show details about artworks when visitors are near them or scan QR code.
- 4. **Museum Guide**: The app should help visitors find their way inside the museum.
- 5. **Save Favorites**: Visitors should be able to save artworks they like.
- 6. **Feedback System**: Visitors can share their opinions about the museum and artworks.
- 7. **Analytics**: The app should recommend artworks and routes based on visitor interests.
- 8. Crowd Tracking: Museum staff can see where visitors are inside the museum.
- 9. Visitor Data: The app should track visitor numbers and time spent at exhibits.
- 10. **Content Updates**: Administrators can update artwork details, pictures, and videos.
- 11. Admin Ticket Booking: Staff should be able to book tickets for visitors who need help.

Non-Functional Requirements:

- 1. **Scalability**: The app should work well even if many people use it.
- 2. **Security**: Visitor data and accounts should be protected.
- 3. Fast Performance: The app should work quickly without delays.
- 4. **Usability**: The app should be simple and easy to use.
- 5. **Availability:** The app should run on smartphones and tablets and it should be available 24/7 for bookings.
- 6. **Accuracy**: Navigation and artwork information should be precise and up to date. Visitor details and feedback should be saved properly.
- 7. **Maintainability**: The app should be simple to update and maintain.

Stakeholders:

- 1. **Visitors**: People using the app to explore and buy tickets.
- 2. Museum Staff: Workers who manage museum information and assist visitor.

- 3. **Museum Administrators** Manage visitor analytics, crowd control, and update museum content.
- 4. **Developers**: The team who built and fixes the app.
- 5. **Security Experts**: People who keep visitors' data safe from data loss or hackers.
- 6. **IoT Service Providers** Supply and configure IoT devices for tracking and navigation.