

## Project Design Phase – Part 2

### Technical Architecture

Date	03 Nov 2023
Team ID	NM2023TMID04665
Project Name	Build an Event Management System using Salesforce

#### Frontend

- **Salesforce Lightning Web Components:** Use Lightning Web Components to create a responsive and dynamic user interface for event registration, session scheduling, and user interactions.

#### Backend

- **Salesforce Apex:** Develop custom Apex code to handle business logic and data processing within Salesforce.

#### Data Storage

- **Salesforce Objects:** Utilize custom objects in Salesforce to store event data, user information, and registration details.

#### Authentication and Authorization

- **Salesforce Identity:** Implement Salesforce Identity to handle user authentication and access control.

## **Integration**

- **Third-Party APIs:** Integrate with third-party APIs for features like payment processing, email notifications, and social media sharing.
- **External Systems:** Connect to external systems and databases for advanced data storage and retrieval.

## **User Interface**

- **Salesforce Lightning Design System:** Apply Salesforce's design principles for a consistent and user-friendly interface.
- **Custom Visualforce Pages:** Create Visualforce pages for more complex UI elements.

## **Data Exchange**

- **RESTful Web Services:** Expose RESTful APIs for data exchange with external systems and mobile applications.
- **WebSocket Communication:** Implement WebSocket for real-time updates during events.

## **Scalability**

- **Utilize Salesforce's native scalability features** to handle increased load and traffic during peak event times.

## **Security**

- Leverage Salesforce's built-in security features to protect user data and transactions.

## **Cloud Deployment**

- Host the application on Salesforce's cloud infrastructure for reliability and scalability.
- Consider integrating with Salesforce Heroku or other cloud platforms for more extensive custom development.