Roles and Tasks for next Milestone

Roles-

Eduardo: Frontend

Kayla: Database and integration

Wendell: QR/RSVP Creation tool

Fabrizio: Managing the Networking

Tasks-

**Frontend**

Task 1.1: Generate Spring Boot project with dependencies (Spring Web, JPA, MYSQL, Thymeleaf, Security).

Task 1.2: Setup project in VS Code and run a simple controller.

Task 1.3: Organize folder structure (static/, templates/).

Task 1.4: Move existing UI files (HTML, CSS, images, JS) into Spring Boot project.

Task 1.5: Create controllers to serve basic pages (index.html, signin.html, admin.html).

Database and Integration

Task 1.1 - Build context for relational database in MYSQL (or Smartsheet)  
Task 1.2 - Begin modeling (listing collection entities)  
Task 1.3 - Identify primary key and unique identifiers  
Task 1.4 - Defining relationships through like modeling  
Task 1.5 - Normalizing to reduce the possibility of redundancy   
  
Task 2 - Track progress and set second set of task milestones

**QR/RSVP Creation Tool**

QR/RSVP System Tasks

Phase 1: System Foundation

1.1 Design the data model: Define the data fields you will store for each RSVP, such as name, email, eventName, isAttended, and a uniqueID.

1.2 Initialize Firebase and Authentication: Set up the Firebase project and configure the connection in your code. Ensure the anonymous authentication is working to allow users to interact with the database.

Phase 2: The RSVP Form (Frontend)

2.1 Build the user interface: Use HTML and Tailwind CSS to create the form where students will enter their details (name, email, event name).

2.2 Handle form submission: Write the JavaScript function that listens for a form submission and collects the data from the input fields.

2.3 Generate a unique identifier: Create a function to generate a unique ID for each new RSVP. This ID will be used for both the QR code and the database entry.

**Managing the Network**

TASK 1.1 | Plan the development of the Network Diagram, Set out the IP's, Hardware, OS and what programs will be used. Define the Firewalls and paths for the connections for the Server/Router and Database.

TASK 1.2 | Create an Azure Plan to build the database and server backends.

TASK 1.3 | Create a Virtual Router using CISCO Packet Tracer to virtualize Firewalls being created on the network.