# **Rooming List Management App - Use Cases**

# 1. Authentication (JWT)

- Log in to obtain a JWT token.
- Protect endpoints using JWT authentication (middleware).
- Verify token validity for each secure API request.

# 2. Rooming List Management

- Retrieve all Rooming Lists from the database.
- Manually insert a Rooming List (admin only).
- Delete all Rooming Lists (used before JSON insertion).
- Filter Rooming Lists by:
- Event ID (eventId)
- RFP Name (text)
- Agreement Type
- Status (Active, Closed, Cancelled)
- Sort Rooming Lists by cutOffDate (ascending or descending).

#### 3. Booking Management

- Get all bookings for a specific Rooming List.
- Insert individual bookings (optional).
- Delete all bookings (before new JSON insert).

#### 4. JSON Data Import

- Frontend button triggers the following:
- Delete all Rooming Lists, Bookings, and Relations.
- Parse 3 JSON files:
- rooming-lists.json
- - bookings.json
- - rooming-list-bookings.json
- Insert parsed data into related tables with proper associations.

#### 5. Testing

- Write at least 2 unit tests for the backend (e.g., Rooming List or Bookings endpoints).

- Use Jest and Supertest to simulate API calls.

### 6. Frontend: Rooming List Visualization

- Display RoomingListCard for each Rooming List.
- Show: rfpName, agreement\_type (bold), cutOffDate.
- Calculate checkInDate (earliest) and checkOutDate (latest) from bookings.
- Group Rooming Lists by eventld with horizontal scroll if more than 3.
- Apply consistent styling (colors, spacing, scroll, buttons).

#### 7. Filtering & Search

- Search bar:
- Search by event name, rfpName, or agreement\_type.
- Use debounce to avoid excessive API calls.
- Filter panel:
- Toggle visibility of Rooming Lists by status (Active, Closed, Cancelled).

# 8. Rooming List Card Interaction

- View Bookings button:
- On click, make an API call.
- Display associated bookings in browser console.
- View Agreement button with tooltip 'Show Agreement as PDF' (placeholder).

#### 9. Responsive Design

- Ensure proper rendering on:
- Desktop
- Tablet
- Mobile Devices

#### 10. Optimization & Performance

- Use Zustand / Context / Redux Toolkit for global state.
- Avoid unnecessary re-renders using memo or useMemo.

#### 11. Dockerization

- Create Dockerfile for backend.
- Create docker-compose.yml to launch:
- PostgreSQL database

- Backend and Frontend containers
- Configure environment variables using .env file.

#### **Bonus Features**

- Pagination or infinite scroll for Rooming Lists.
- Add icons and micro-interactions (as shown in the mockup).
- Show visual confirmation message after importing JSON data.

# **Project Modules Structure**

- Organize code in modules/epics like:
- auth/
- rooming-lists/
- bookings/
- import/
- filters/
- ui/