

The user for your application might be a Customer Service Rep in the City of Miami Beach Parking Department. Some user stories you might implement are:

- 1.As a Customer Service Rep, I would like to see a master/detail view of the Parking Permits so that I can see the details of a particular permit
- 2.As a Customer Service Rep, I would like to search for a Permit by License Plate
- 3.As a Customer Service Rep, I would like to see a list of (a) expired Permits and (b) active permits so that I can de-active expired permits
- 4.As a Customer Service Rep, I would like to view Parking Areas by Parking Type so I can see, for example, all the Residential Parking Areas

1. Master/Detail View of Parking Permits

Backend Tasks

Create a database query to retrieve all permits with their details.

Design a new API endpoint (GET /api/parkingpermits) to fetch all permits.

Add DTOs to structure the API response.

Frontend Tasks

Implement a table/grid to display the master view of permits.

Add a detail view panel to display the selected permit's details.

2. Search for a Permit by License Plate

Backend Tasks

Create a database query to search for permits by LicensePlate.

Design a new API endpoint (GET /api/parkingpermits/search) to handle the search.

Validate input (e.g., ensure LicensePlate is not empty).

Frontend Tasks

Add a search input box with a button for submitting queries.

Implement API integration to fetch the search result.

Display the result in a detailed view or a "No results found" message.

3. List Expired and Active Permits

Backend Tasks

Create two database queries: one for active permits and one for expired permits.

Design an API endpoint (GET /api/parkingpermits?expired=) to return both lists.

Write unit tests to validate the filtering logic.

Frontend Tasks

Create a component for "Active" and "Expired" permits and apply logic to get from API

Populate each tab with data from the API.

Add a button to deactivate expired permits and send updates to the server.

4. View Parking Areas by Parking Type

Backend Tasks

Create a database query to group Parking Areas by their types.

Design a new API endpoint (GET /api/parkingareas?parkingareatypeid=) to return grouped data.

Frontend Tasks

Implement a grouped list view (e.g., collapsible sections for each type).

Add a dropdown filter to display areas of a specific type.