

SYSTEM ARCHITECTURE

USER MANAGEMENT

- A normal user will be able to create an account using details specified(id,firstName,lastname,email,password)
- Admin users can only be created by other admin users because someone cannot register him/herself as an admin

AUTHENTICATION AND AUTHORIZATION

- Registered users will be able to login into the system
- You should show meaningful errors to the users in case they exist
- After login, the users will be able to access the protected endpoints

PARKING MANAGEMENT

- Allow admin users to register the parking with these details(code,parking name,available spaces,location,charging fee per hour)
- Allow parking attendants to view available parking and available spaces and their charging rate

CAR ENTRY AND EXIT MANAGEMENT

- Allow admin users to register car entry with the details(id,plate number,parking code,entry date time,exit date time,charged amount)
- When car entry is made , you can generate the ticket including the details
- In each car incoming or outgoing , change the number of available spaces
- Generate the bill on car outgoing (it will include the duration of parking, and the message and the amount charged based on duration of parking)

REPORT GENERATION

- all car outgoing with the amount between two date times. User will select two date times and the list of car outgoing between those dates will be shown
- Display cars entry between the selected date times