PRACTICAL TASK FOR WEB DEVELOPMENT

Online Parking System

Aim: Develop online parking system to book parking slot.

1) Auth Modules
- Login
- Login form should have following fields
  a. Email
  b. Password

Note:
- Login session should be managed such that until user logout the session should not be removed.
- All the pages should be only accessible after login
- Error messages
- If the user not found - User not found
- If the invalid credentials - Username or password incorrect.

1) Registration
- Registration form should have following fields
  1. Full Name
  2. Email
  3. Password
  4. Confirm password
  5. Role (admin/user)

Note:
- All fields should have proper validation.
- Email should be unique for every user.
- Password must contain 8 characters, 1 uppercase, 1 lowercase and 1 number.

2) Admin module
- There will be only two pages

1. Create parking slot
- Show button to create parking
- Clicking on button should open a modal
- Show form in modal
  o form fields
    ▪ Address
    ▪ no. of parking slots(Input box)

2. View list of slots
- List will be shown in the form of table with columns
  o Address

- o Total slot
- o Booked slots
- o Non booked slots
- There will three filter options:-
  - o All
  - o Booked
  - o Non booked
- By default **All** be selected on page load
- When user select **Booked** then only address who's all slots are booked will be shown
- When user select **Non Booked** then only address who's at least one slot is not booked will be shown

Note:
- Admin can also delete parking

3) User Module
- There will be only 1 page.

1. Home page
- Show all the parking slot's that admin has created
- Show view slot button for each parking

2. View slot (if user clicks on view slot)
- Open dialog box
- Open dialog box should contain total no. of parking slots.
- Now user can book any vacant parking slot and it should show one confirmation alert to book the slot
- If user try to book any non-vacant slot then alert will be display that shows This slot is already booked

Note:
- If user itself has booked parking slot already then show green background colour parking slot
- If another user has booked parking slot then show red background colour parking slot
- If user select's available parking slot then show yellow background colour
- If parking slot not available then disable it.
- If parking slot is available then show white background colour.