JavaScript – Final Exam

Booking

Introduction:

Main purpose of final exam on beginner program is to summarize lessons we learned in first part of course. In this exam, we will cover HTML, CSS and JavaScript, which are required to know before start learning Angular.

Prerequirement:

Design of the application isn't defined, so you can freely create your own design and you can refer to designs of similar web applications.

Application should include:

- HTML5 organization
- CSS3
- JS
  - DOM manipulation
  - Dynamic content (Arrays, JSON)
  - OOP
  - AJAX
  - Functional programming
  - Prototypes, call, apply, bind..
  - Regex, validations
  - * Animations (extra points)

Code should be written in English and all variables and functions should have proper names. Make sure that you DRY (Don't Repeat Yourself).

All functionalities of application should be working. If functionality giving error, that task will not be grade.

Pages:

1. Landing page
2. Single hotel page
3. Reservations page
4. Create reservation page

Requirement:

1. As a client, I want to have landing page with navigation links: Home, Reservations, Login, Logout.

   Tech Acceptance Criteria:

   o *Navigation links should be dynamic and listed via JS*

2. As a client, I want to have landing page where I can see all hotels. Hotels should be displayed with name (link to single hotel page), description (just first 50 characters), location and number of stars.

   Tech Acceptance Criteria:

   o *Hotels should be from json server*

3. As a client, I want to have ability on landing page to search hotels per location. Above hotels, I want to have search box and button. When I click on button, I want to see only hotels which location begin with search term.

4. As a client, when I click on name of hotel, I want to see all details about hotel.

5. As a client, I want to have single hotel page, where I can see full details. On this page, I can see title (name and location separated with comma), full description, location and stars.

6. As a client, I want to have reservations page, I want to have title 'Reservations', table with reservations and button 'Create reservation'. Table should contain columns: ID, First Name, Last name, Hotel name, DateFrom, DateTo and Delete. In Delete column, each row should have delete icon. DateFrom and DateTo should be in format „year/month/day".

7. As a client, when I click on 'Create reservation', I should be redirected to add reservation form page. This page should contain title 'Create reservation' and form with following fields and requirements:
    a. First Name – required, max 150 characters, must start with upper letter and must not contain special characters
    b. Last Name – required, max 150 characters, must start with upper letter and must not contain special characters
    c. Date from – datepicker, required
    d. Date to – datepicker, required
    e. Hotels – dropdown – required, must be chosen
    f. 'Create' button – disabled until all fields are properly filled

    After fill form and click 'Create', new reservation should be added in json on json server and diplayed on reservations page.

    Tech Acceptance Criteria:

    o *Hotels should be from json server*