

Exit Test

Problem Statement

The problem statement is a product catalog website where a customer can visit, register themselves, browse products, search products, view product details

Please make reasonable assumptions wherever required and state them clearly in a separate text file (if any).

2 applications are to be developed.

First application (REST API – No UI, only backend):

User authentication API

Build a Rest API to support successful/unsuccessful user authentication validation.

User registration API

Build a Rest API to register new users.

Search product API

Build a Rest API to search a product by one or many of the following parameters:

1. Name
2. Product code
3. Brand

Product Details API

Build a Rest API to get other details such as description for product

Get Price API

Build a Rest API to get prices for a product or list of products.

Get Serviceability API

Build a Rest API to check if a product is serviceable/deliverable to a certain pincode and what is the expected delivery time

Second Application (using Angular):

Technology stack: Angular 11, Responsive design, SASS/LESS (Bonus), Angular CLI, npm

Homepage

Landing page should have links for Registration and Login.

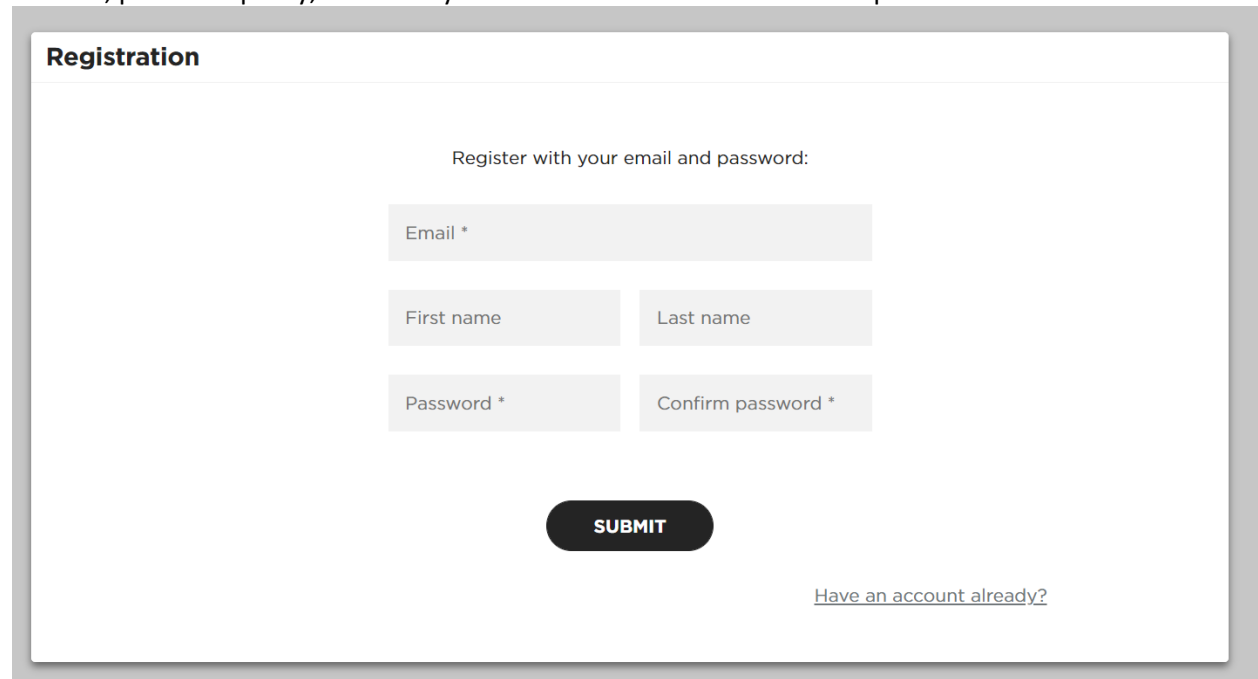
Homepage should show a search box with which a customer can search for a product.

Login Page

The application should have a login page. User should be able to login. Proper error messages should be handled in case of invalid authentication.

Registration Page

The application should have a registration page. User should be able to register. Validation for email address, password policy, mandatory fields such as name etc. should be performed.



The image shows a registration form titled "Registration". Below the title, it says "Register with your email and password:". The form contains five input fields: "Email *" (a single wide field), "First name" and "Last name" (two side-by-side fields), and "Password *" and "Confirm password *" (two side-by-side fields). Below these fields is a dark "SUBMIT" button. At the bottom right, there is a link that says "Have an account already?".

Product search page

Search screen should search the input text against all input parameters specified for matching products

Results Page

Once Search is triggered after specifying the search parameters, It will display the search results using the API from 1st Application.

The search results should display product image, name and brand

The user should be able to see the products and filter them further by brand.

If a customer is logged in,

- they should be able to view prices of every product in the search results
- they should be able to click on view details link on every product
- they should be able to filter products by price range

If no results are found, error messages should be displayed.

Product details page.

Logged in users can view product details by clicking on view product details link from search page.

The product details page should show product image, product name, description, brand, price and a textbox to check serviceability

Logged in user can enter their pincode in the textbox to check serviceability. Once they click on submit, they should get a proper message whether the product can be delivered to their pincode or not and what is the expected delivery time.

Logout

User should be provided with an option to logout.

Some clarifications:

- You can design pages as per your creativity.
- Proper coding conventions should be followed.
- Concepts such as interceptors, guards etc. should be implemented.
- Both applications should be fully functional

Timelines:

6 PDs

Evaluation Criteria

1. Rest API implementation completeness.
2. Authentication
3. Adherence to Restful APIs best practices.
4. Integration between Angular and Rest API for searching and displaying the results.
5. Implementation of Logout functionality
6. Adherence to best coding and design practices for both the applications.

All the best!!