

PE\_FE201M\_SP23

SPRING 23

Subject: FE201M

Duration: 85 minutes

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## INSTRUCTIONS

**Please read the instructions carefully before doing the questions.**

- You are **Not allowed** to use any device to share data with others.
- You must use IDE as **Visual Studio Code** for your development tools.
- You must use the **Material design**.

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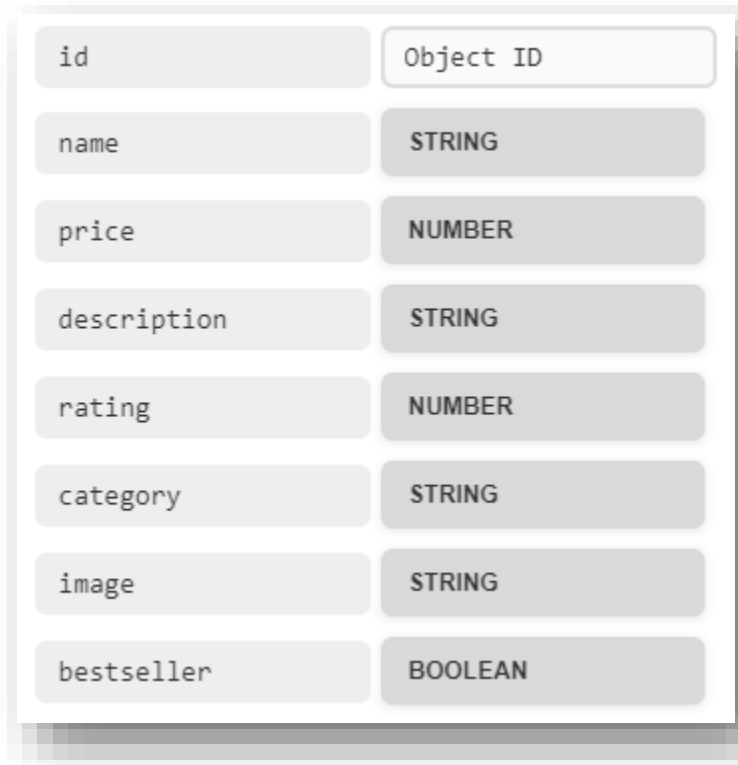
Create a new React application using `npx create-react-app your-roll-number`.

**Task 1. Create a new resource and supply data for your application.**

1. (0.25 mark) Create a new resource named `products` in `mockapi.io` and **declare a Schema**.
2. (0.25 mark) Edit/replace data for the `products` resource. Copy the content of `products.json` file.

**Task 2. Implement some actions in public routes.**

3. (1.0 mark) Create a `NavBar` for navigating all the routes in your application. Including: **Home**, **News**, **Contact** and **Sign in**. (install `react-router-dom` library)
4. (1.0 mark) At **Home** route, display all the products in data which are the best seller (*bestseller is true*). Each of product must contain some information such as: **Title**, **price**, **image**. When you click to detail button or title link, the view switch to **detail** route.



id	Object ID
name	STRING
price	NUMBER
description	STRING
rating	NUMBER
category	STRING
image	STRING
bestseller	BOOLEAN

5. (1.5 marks) At detail route, display all the information of product: **title, description, price, image, bestseller, rating and category**. Design and arrange this component as good as possible.

***Task 2. Implement some actions in private routes.***

6. (1.0 mark) Build the login with Google account action. Check if login successfully, redirect to **dashboard** route. Replay the Sign in link of Navbar to your email from Google.
7. (1.0 mark) Check if login successfully, at **dashboard** route, it displays the list of products by table. Each of row must contain the links or icons for CRUD actions.
8. (1.5 marks) Check if login successfully, create a Add route with the requirements:
- ✓ Create a form and validate all data.
  - ✓ All fields are required.
  - ✓ Control of *description* is text area.
  - ✓ *bestseller* is a checkbox or toggle. Checking means true value.
  - ✓ Value for *rating and price* are the number.
9. (1.0 mark) Check if login successfully, at **Dashboard** route implement the *delete* action. With *delete* function, you must **confirm** before implementing. After deleting successful, showing a notice (modal, alert, toast...) and the list of products will render the new list.
10. (1.5 marks) Check if login successfully, implement the *update* action. With *update* function, the same validation requirements with *Add* function.

***-The end of test-***