

PE\_FE201M\_FA22

FALL 22

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 other materials. 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 `news` in `mockapi.io` and **declare a Schema**.
2. (0.25 mark) Edit/replace data for `news` resource. Copy the content of `data.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, Top News, Contact and Sign in**. (install `react-router-dom` library)

### Schema (optional)

Define Resource schema, it will be used to generate mock data.

id	Object ID
title	String
description	String
content	String
img	String
created	Date
status	Boolean
views	Number
attractive	Boolean

4. (1.5 marks) At **Home** route, display all the news in data which have *attractive* is *true*. Each of news must contain some information such as: **Title, description, img**. When you click to detail button or title link, the view switch to **detail** route.
5. (1.0 mark) At detail route, display all the information of news: title, description, content, img, created, views (number of views for this news) and attractive. 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 news 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* and *content* are text area.
  - ✓ Value for *created* is date.
  - ✓ *Status* is a checkbox or toggle. Checking means true value.
  - ✓ Value for *views* is a number. Default value is no. 1.
  - ✓ *attractive* is a checkbox or toggle. Checking means true value.
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 news 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-**