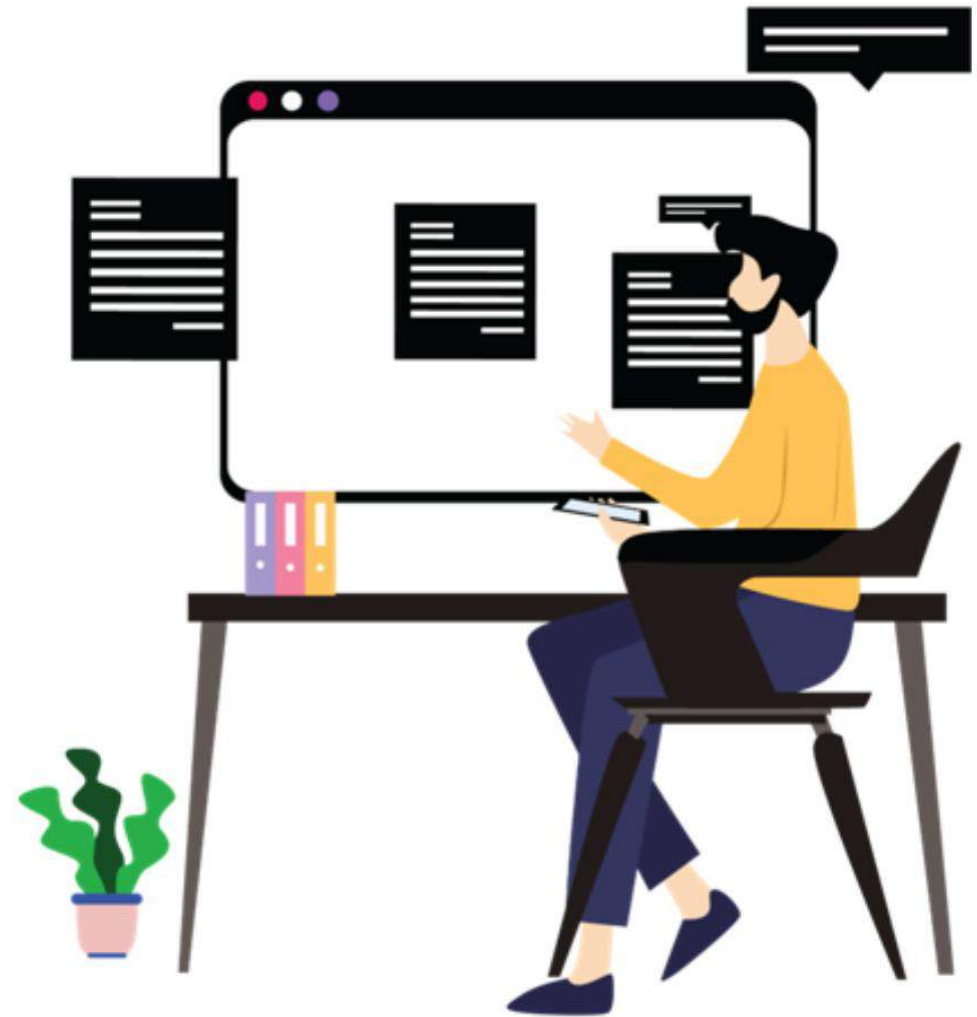


Project Brief Milk In Minutes





Objectives

- Work on summative evaluation of all concepts, knowledge, and skills learned in the Frontend courses.
- Apply clean coding, standards, and guidelines to demonstrate the project.
- Present the project to the different stakeholders.

Milk In Minutes

- Dairy products have been a part and parcel of human life for centuries, serving as a reliable source of nutrition, sustenance, and culinary diversity.
- The dairy shops have started offering options to the customers to order starting from farm fresh milk to dairy products to ice creams & lassi, organic products like paneer and ghee.
- In addition, taking advantage of the widely used digital platform, the dairy products outlets offer options to customers to place their orders online.
- The outlets can reach a larger audience, and the customers can enjoy the varieties of products prepared by the popular outlet, served at their doorstep.



Milk In Minutes – Problem Statement

- Develop a single page application using Angular – Milk In Minutes, that allows customers to make an online request for milk, cheese, butter or yogurt of their choice.
- The dairy products are displayed with attractive images and crisp details, allowing the users to select the item of their choice and provide the order details.
 - The app should seek confirmation from the users before allowing them to navigate away from the order view without submitting the details.
- The app can search and filter the items by the user's preference for a quick selection.
- The site administrator can view the incoming order requests.
 - The app should redirect user to first validate his identity as site administrator before providing access to the order request view.

Task 1: Design Landing View

- The landing view of the app must display the images of various dairy products like milk, cheese, yogurt and butter.
 - The data must be fetched using `json-server`.
 - This view must be the default view.
- These items should be selectable by the user.
 - Upon selection, the user should be navigated to the order view.
- The landing view must also allow users to search / filter these items by their preference.
 - Search allows user to search by item name.
 - Filtering allows user to filter items by category.

Task 2: Design Order View

- The user will be navigated to the order view once he selects the item on the landing view.
- The view should display the details of the item selected.
- This view should also allow users to provide the details required for placing order for the selected item.
 - The details should include the item details as well as the customer details.
- The details should be persisted, and the customer should be acknowledged after the order is successfully placed.
- The app will request confirmation from the user to leave the view, if the user attempts to navigate away from this view without submitting the request.

Task 3: Design Login View

- The user should be navigated to the login view if he attempts navigation to the dairy-products-order view.
- The view should request the user to enter the security code to login as Administrator.
- Upon successful validation, the user should be navigated to the dairy-products-requests view.

Task 4: Design Dairy-Products-Requests View

- This view will display all the dairy products order requests received in tabular format.
- This view has restricted access and is accessible only to the site administrator.

Project Development Approach

Menu



00:09:00:00:16

09/ 16



Milk In Minutes – Project Development

The use of Gen AI tools in software development today has a profound impact. AI streamlines and automates various aspects of the development process, enhancing efficiency and accuracy. It assists in code generation, bug detection, and optimization, reducing development time and costs.

It enables the creation of natural language interfaces, improving user interaction and accessibility for software applications. Developers can use these tools to generate code snippets, API calls, or documentation, boosting productivity and reducing coding errors.

In summary, Gen AI tools like ChatGPT significantly reduce development time and enhance efficiency by automating various tasks, allowing developers to focus on higher-level problem-solving and innovation.

Hence, as an entry level coder, develop the Milk In Minutes SPA using ChatGPT by giving effective prompts. To make best use of ChatGPT to design and develop the application, it is recommended to give effective, crisp and specific prompts. This will ensure that ChatGPT generates the expected responses as code snippets which can be used as it is with little refactoring.

Requirement Analysis and Design

- Identify the requirements for the tasks mentioned above.
- Identify components, services, and route paths that are required in the application
- Design data models for the SPA.
- Identify the relationship between components and determine the flow of data between these components.

Design Implementation

- Create components
- Design types for data models identified.
- Create services
- Define routes
- Identify routes with guards
- Make app functional
- Style the app
- Implement persistence using `json-server`.
- Make design responsive.

Points to Remember: Prompts to ChatGPT

- Give sufficient context to ChatGPT to begin with.
- Give prompts to design the data model first.
 - Refactor the data model if the suggested code is not matching with your requirements.
- Give prompts to create the identified components and integrate with services to fetch data from `json-server`.
- Provide separate prompt for creating each component
- Ensure to use Angular Material components by ChatGPT while designing the UI. Ask the ChatGPT to generate respective CSS for each component
- Give detailed information about each sections like specific icons and its positions, various form fields etc.
- Avoid giving all information at one time, ChatGPT may not be able to keep track and certain things may be missed out resulting in re-work.
- Avoid depending fully on ChatGPT for small bugs which can be fixed easily. This will result in avoiding multiple to-and-fro conversations with ChatGPT.

Capstone Project Plan

Milestones	Milestone 1	Milestone 2	Milestone 3
Deliverables	Requirement Analysis and Design	Application Development	Final Presentation
Deliverable Details	Understand the requirements of the application and design the structure of the single-page application	Develop the solution code for SPA	Presentation and demonstration of the project

On the Day of the Presentation

Remember these points during your presentation:

- Always face your audience. Your voice should be loud enough for the audience to listen to you.
- Script and memorize your speech properly.
- Be confident while explaining the working of the project.
- You can use a complete flow of your application in a diagrammatic format during the presentation.
- Answer the questions asked by the audience slowly and confidently.