

Product Catalog Application

(Technical Documentation)

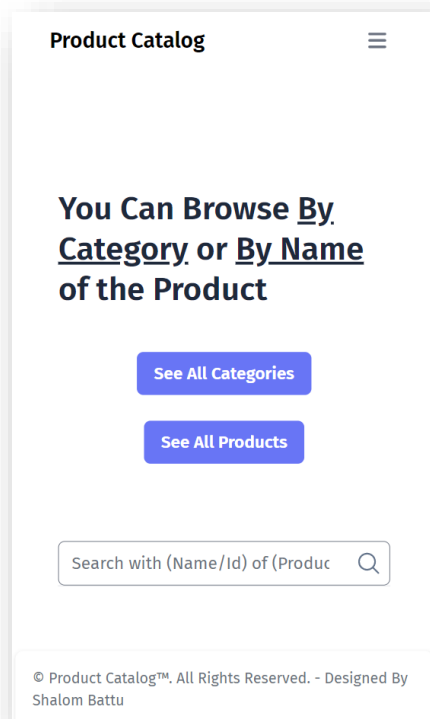
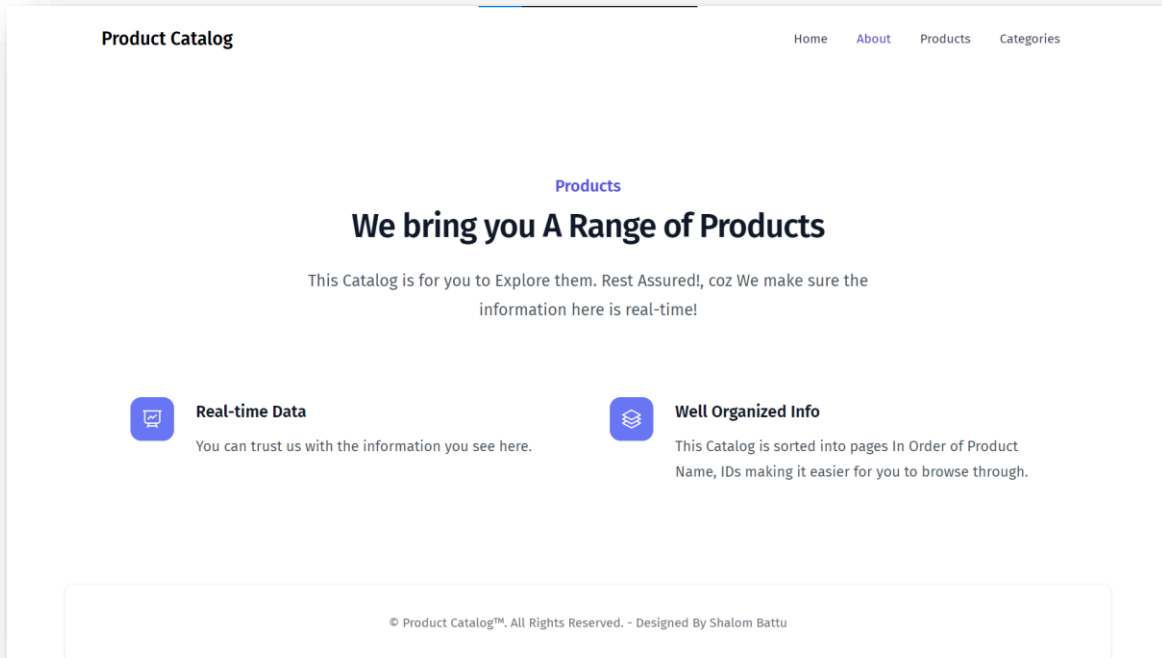


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Document Control

Project Name	Product Catalog Application
Mentor	Satish Kumar Vadlavalli
Delivery Manager	Deepthi R.
Business Analyst	Aruna R.
GIT Repo	Link to the Repository

Project Overview

This is A Catalog Application provides one to Explore through the products of different categories
Add and have a glance at the catalog of your products in two organized formats:

- Alphabetically sorted Lists of Categories and Products
- View the products Category wise.
- Search with the names and ids of products/categories

All Basic **CRUD Operations** and Search with **pagination** provided

Technologies used

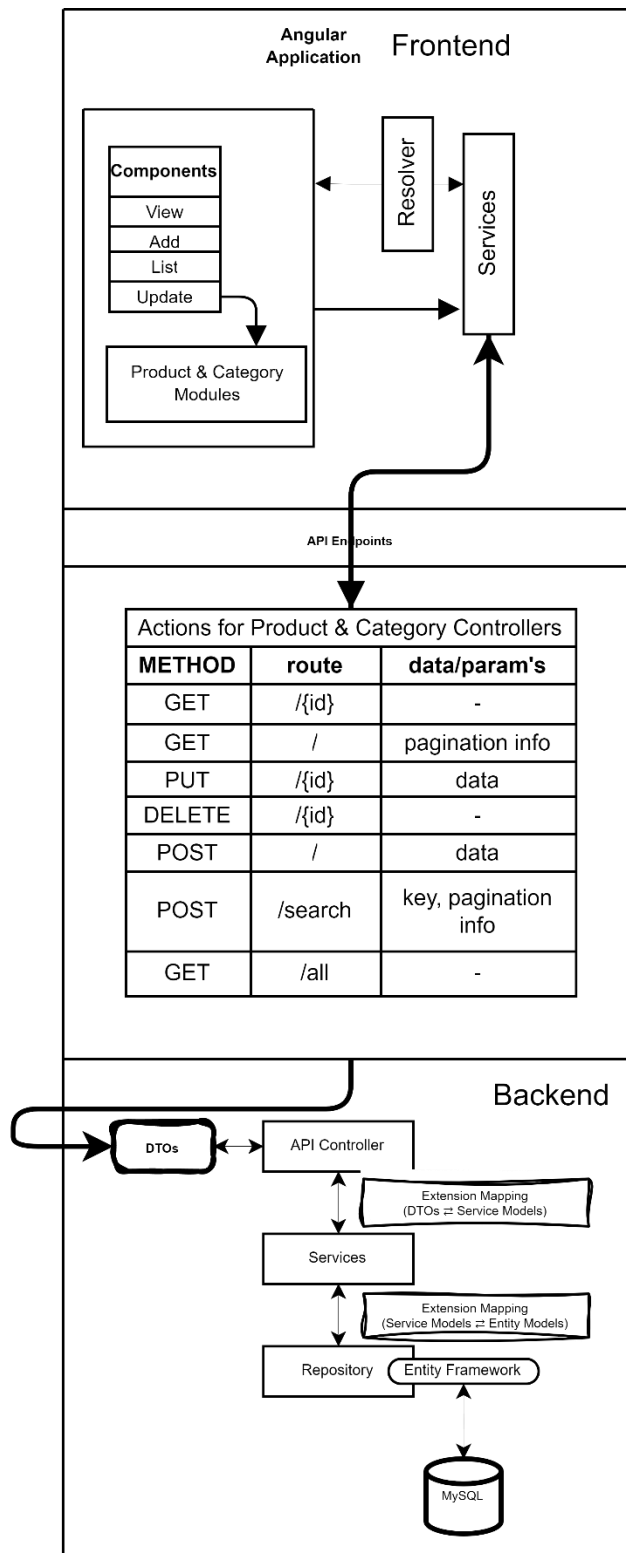
A. Front-end Technologies

1. Angular
 - a. *Resolvers*
 - Used resolver route Guard to make sure data is pre-fetched before navigating to the respective route.
 - b. *Services*
 - Injectable Services in resolvers are used to fetch data from API
 - c. *Lazy loading*
 - To improve the load time of the application lazy loading is used, enabling bundles of the app at routes to only be loaded when needed
2. Tailwind CSS
 - A utility-first CSS framework packed with classes – used this for a Responsive Design
3. RxJS – Observables of RxJS library are used to work with the stream of asynchronous data

B. Back-end Technologies

1. .NET Core Web API
 - a. *Dependency Injection* – DI is used to loosely couple the code so that managing future changes would be easier.
 - b. *Entity Framework* – Communication b/w relational and Objects/Models by Mapping automatically – ORM
 - c. *Monolithic 3-layered Architecture* – Maintainable pattern of different layers is used as project structure, this self-contained nature of the app makes it easier to debug, manage and maintain the code.
 - d. *Mappers* – Conversion b/w Data Models exposed to API user, the DTOs and Service layer Models & Entity Models
2. MySQL Database

Data Flow



All the Different Views

1. **Create, Update, List** Views for both Products as well as Categories
2. **Entity View:** *View Product, View Category*

Baby & Kids

 Update Category

A huge collection for Whatever for all of the Baby, Kids' Needs [CAT000006]

Diapers

PRO000001
Indian grocery


₹400.00

Baby lotion

PRO000003
A gentle lotion specially formulated to restore the skin's natural beauty, Himalaya Baby Lotion leaves the baby's skin soft and supple.

₹72.00

Baby lotion

 Update Product

Baby & Kids

A gentle lotion specially formulated to restore the skin's natural beauty, Himalaya Baby Lotion leaves the baby's skin soft and supple.

Current Price:	M.R.P:	Discount:
₹72.00	₹75.00	₹3.00

Dimensions

Height - 0

Depth - 0

Width - 0