

Project Report – Shopping Planner Website

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Problem Statement

In today's world, customers have a variety of options for a product that they need. Hence shopping for an item becomes a daunting process. Especially when we plan to buy an expensive item, we need to research and go through different options before coming to a final decision so that we don't make a mistake of buying the wrong option or overspending. So, a tool to help users research and compare different options both online and offline becomes a necessity. This would help people remember what they need, stick to a budget, and find the best deals so that shopping becomes less stressful and more organized.

Project Goal

The main goal of this project is to help users organize their shopping lists, making it easy to keep track of items they need to buy. This prevents users from forgetting to buy the items that they need and helps in saving time by planning for items in advance. Users would also be able to do budget management by being able to compare the prices of items from various stores and websites. This helps users make more informed decisions about their purchases.

Alternative Approaches

Alternative approach includes maintaining a shopping list through an excel sheet. But maintaining all the details can become messy especially when the list becomes a big one.

Other websites which offer solutions to this problem are:

1. camel camel camel - It only helps to track products from amazon
2. Listonic - Helps to create custom list. But the option to add link and price is not available.

Chosen Approach and Justification

The chosen approach is to build a website to help users to track their shopping needs. This offers a convenient and efficient way to plan and organize their shopping needs. A website helps users to access their shopping lists and plans from any device with internet connectivity. This ensures they have their lists handy wherever they are.

The home page of the website has a signup and sign in functionality. A new user will have to first sign up by entering the email id and password. After signing up, the user will be able to login to the website. Once a user logs in to the system, they will be able to create lists for the items that they plan to buy. Users would also be able to see the existing lists that they have made and be able to delete any list which they do not want any more. Also, users can compare prices of an item across various online shopping websites. For this, a user can enter the links from different shopping websites and their price. This helps them to research and finally decide on what to buy.

Technologies used for the website:

Frontend - Next.js, React, MUI (Material UI)

Backend – Python (FastAPI and SQLAlchemy)

Database - MySQL