

Assignment

Capstone Milestone - Draft

Aniket Pathak

Grand Canyon University: MCS

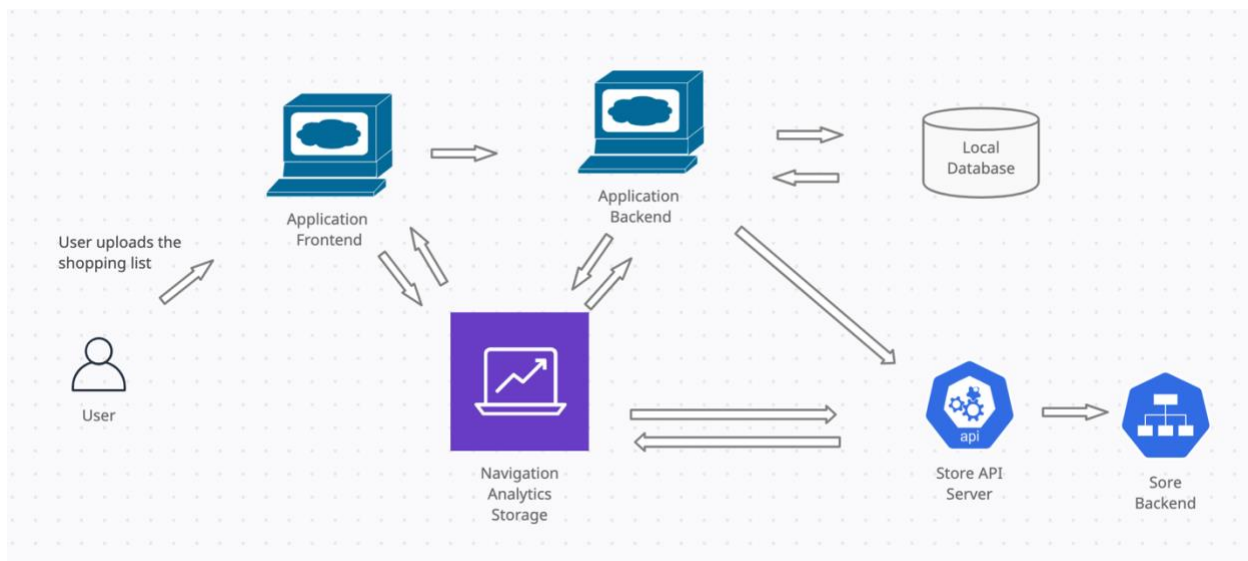
08/25/2021

Project Overview

Idea of my project is to design a guided navigation pathway inside a shopping complex/store where customer can find things from their shopping list/note and the application can simply guide them to find items from their respective location. The navigation would be the best possible route where customer would spend least time finding the item and the navigation path will be created in sync with items available in the store.

Objective of the project is to help customers of a specific store to find their product in the way those items are available and added into shopping list. In future offer this service to those stores so that they avail this facility from their app. This service will not be a generic solution for an in-store experience for a specific store.

High Level Architecture Diagram



High level steps

1. User logs into Application frontend
2. Upload the required shopping note against a store name
3. Frontend upload the form data and send API request to application backend
4. Backend does the basic validation and formats the input data
5. Backend calls its local Database to see if updated information is available
6. If yes, then fetch it from DB
7. If No, then call store API service (if any) to fetch isle and product details
8. Gather all the data and run sorting algorithm on items
9. Second, run graph algorithm for arranging elements by isle number
10. Print the output in a direction-based image (TBD)
11. Offer the input for download or print.

To be continued ...