ShopByAisle 

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https://shopbyaisle.azurewebsites.net

Description

- Motivation : I came up with the idea of this app during COVID-19 when my husband took the responsibility of grocery shopping. He spent more time searching for items in aisles rather than shopping. That's when I thought of -

- ShopByAisle App - A mobile web application to make shopping experience fast and hassle free.

- The application stores items and their aisle location in the stores, then shares aisle information with users. Users can contribute to this data, revealing the power of crowdsourcing.

Features

- Searching and adding stores using google map api
  Searching stores using google map to add as favorite stores for maintaining store-wise shopping lists & storing aisle info.
- Frequently Shopped Item List with sorting and filtering capabilities.
  Users can store their favorite lists of items(frequently shopped) & add them to their shopping list with a click of a button.
- Shopping List with sorting and filtering capabilities.
  Users can create and maintain their shopping lists that can be filtered store-wise and sorted based on Aisle information.
- Building a Repository of Aisle Information
  Update Aisle information based on user input and share it with others, making it a crowd sourcing platform.
- Responsive with Mobile layout
- Published on Azure - https://shopbyaisle.azurewebsites.net

Planning – User Stories

- Applied common business practices including but not limited to user story mapping in Trello and wireframes for prototyping.
- Used Agile Methodology for developing and working on User Stories.
- Main user story : Creating Shopping list and Sharing Aisle information.
- Searching Stores using Google maps, is another important one.

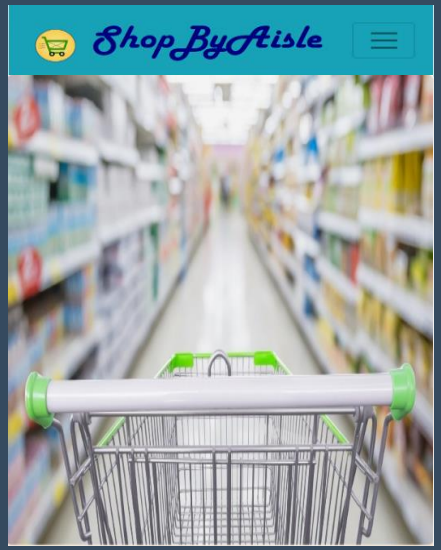
Planning - Database

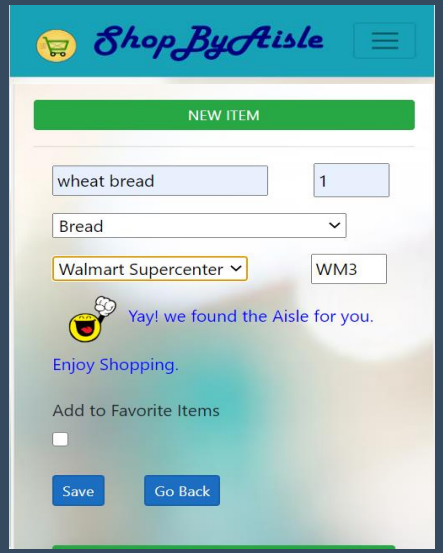
- Primary goal is to store the Aisle information for Stores and Item category and share it across users.
- Admin user maintains item Categories.
- Maintain favorite Stores for the users.
- Allow to maintain two list of Items - Actual Shopping List and Frequently Shopped Items. (both using common table)
- Allow Users for authentication using standard login methods.
- Database Used : SQL Server
- Used EF Core migration feature for data model changes.

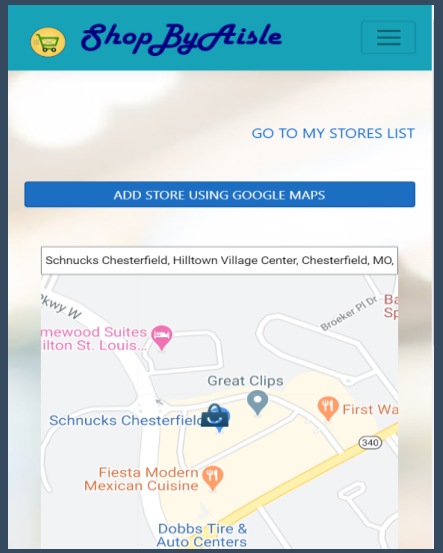
Technology Stack

- Languages - C#, JavaScript, Html, CSS
- Framework – MVC ASP.Net, Entity Framework Core, Bootstrap, Ajax
- Database – Sql Server
- Other libraries – Google Maps API, jquery
- Platforms / Tools - Microsoft Azure, Visual Studio 2019, Git, Trello, Moqups for wireframe.

Demo







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What I Learned

- Interacting with Google Map API for fetching places.
- Client side validations using jquery and JavaScript.
- Dynamic data updates using Ajax (jquery).
- Making site mobile responsive using Bootstrap.
- Publishing the site on Azure cloud.

What's Next

Features :

- Dynamically filtering Shopping list based on users current location for user convenience.
- Allowing user to update Aisle only when they are present in store to ensure data accuracy.
- Reward system for users contributing to the Aisle information to motivate users to build aisle repository.

Technology:

- Learning more of jquery for client side validations and bootstrap to improve UI.