Advanced Software Engineering

INCREMENT 2 REPORT

Team -15

Team Members

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Project Objective:

Objective of the project is to design an application which would facilitate to search for recipe online. If the listed ingredients to prepare a recipe is not present with the user application allows him to search for those ingredients in the stores near to him.

Main Objective of the application is to assist the user in his cooking, by allowing him to search for the recipes and providing the way to procure the missing ingredients from the nearby store.

Project Inspiration:

This application allows user to search for a recipe, and the missing items from the stores nearby.

Searching for a recipe we often lack in finding all the ingredients to cook, in such cases we don't cook that recipe and switch to another one, but by using our app we can search for the ingredient in a store nearby or just scan the bar code of the missing item, we provide you the with the list of stores having the product available along with its price and direction to the store. User can store his list of ingredients in his cart. After having all the required ingredients, he can have a look at the recipe procedure and cook his delicious meal by using our small oven app.

Application Features:

1. Search for Recipes
2. Search for Groceries
3. Search Stores by Location
4. Get details of the product using barcode
5. Search Grocery by name
6. Search Grocery by UPC code
7. Visualize nutrition facts of recipe

REST Services

Spoon Acular Food API

Description:

The Spoon Acular food API provides access to 350,000+ recipes and their related data, as well as a grocery shopping list in the cloud. It also allows users to Search over recipes by ingredient, title and more.

API URL:

http://api.bigoven.com/recipe/{id}

Google Mobile Vision API

Description:

The Mobile Vison API allows users to detects barcodes in real-time, on device, in any orientation. It can also detect multiple barcodes at once.

API URL:

https://codelabs.developers.google.com/codelabs/bar-codes

Super Market API

Description:

The Supermarket API by allows users to access and integrate information of supermarkets into the android applications and services. Currently, the Supermarket API supports information from Whole Foods, Trader Joes, Safeway, Costco, and Wal-Mart in the US.

API URL:

http://www.SupermarketAPI.com/API.asmx

Amazon AWS API

Description:

Amazon web services API allows users to look for the 1000's of products by name, by amazon ID, by universal product code. It provides vast information about different products.

API URL:

http://webservices.amazon.com/onca/
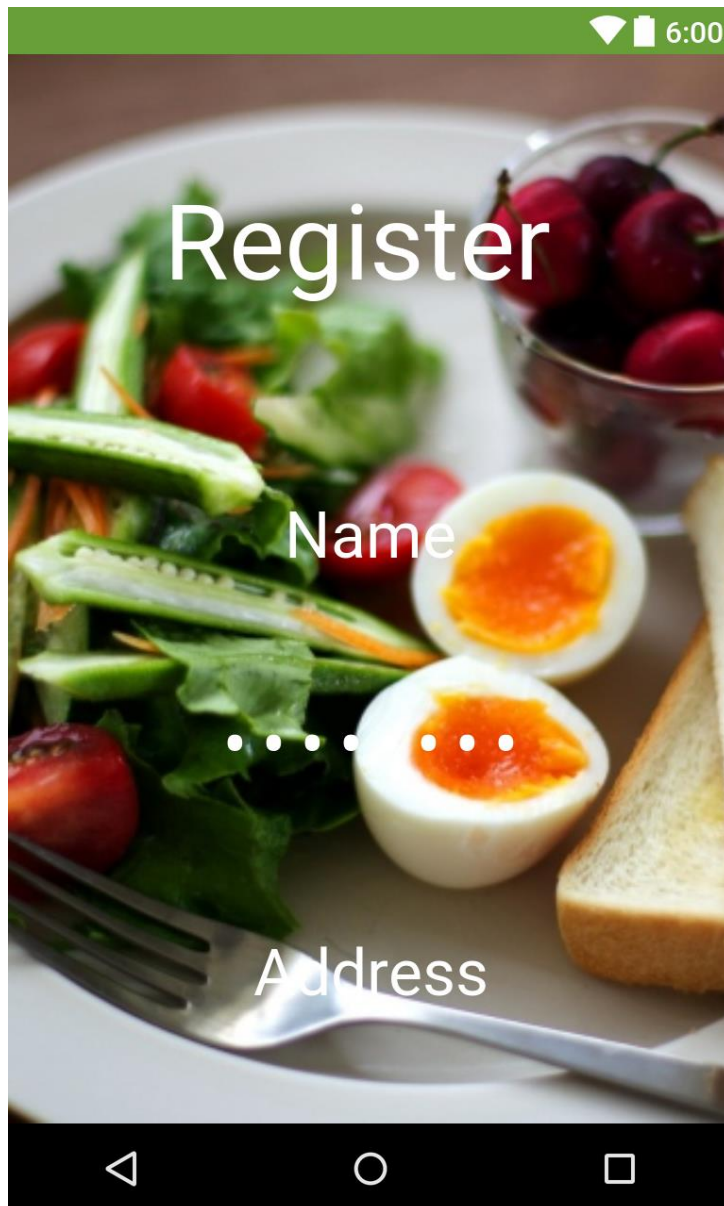
Application Screenshots
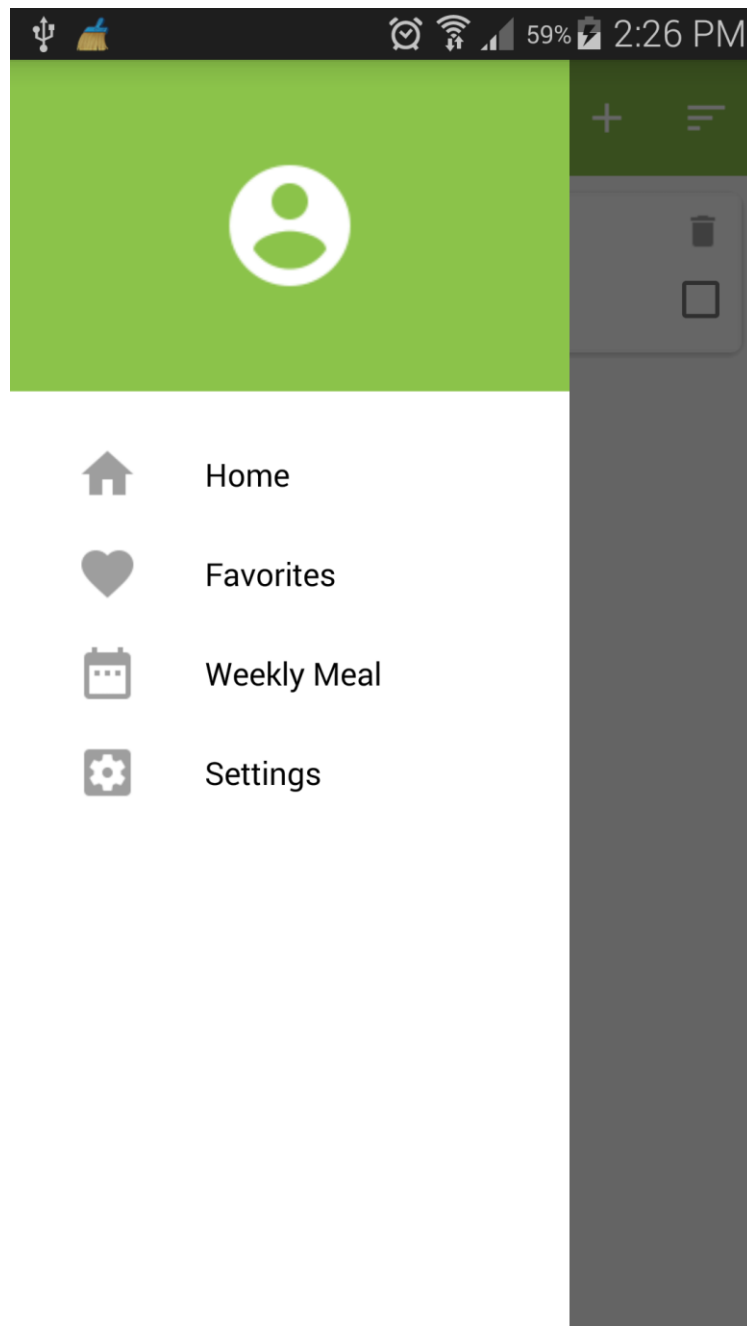
Login Page
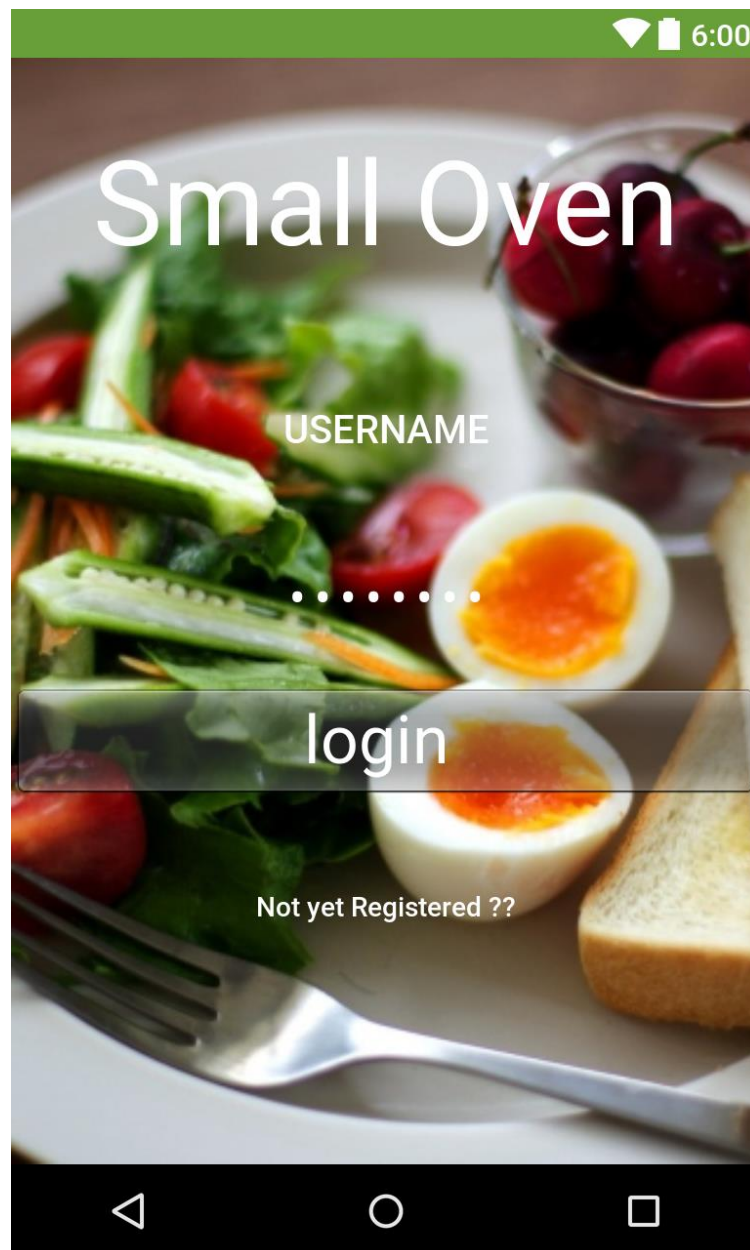
Register Page

Register

Name

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Address

We added a *Navigation drawer* to move between different screens of application.

Home: Home directs to the main page of the application, through which user can search for a recipe, then he can narrow his search by proving cuisine and diet.

Favorites: User can save his favorite search recipes.

Weekly Meal: This is a smart option which suggests user to choose meal according to the calorie input.

Setting: User can change his personal Information.

Home Page

Random Recipe:

An additional feature is user will be shown a *random recipe* picture on-clicking the image would redirect to detailed recipe description.

Get link for random recipe:
 https://spoonacular-recipe-food-nutrition-v1.p.mashape.com/recipes/*random*

Search Recipe

Get Auto Complete search for recipe:

get request :

https://spoonacular-recipe-food-nutritiov1.p.mashape.com/food/*ingredients*/autocomplete

noodles with broccoli

Cusine

American

Diet

Chineese

Caribbean

Japanese

Thai

Indian

Filtering Diet options

noodles with broccoli

Cusine American ▼

Diet ▼

Pescetarian

Lacto

Lacto Vegetarian

Ovo Vegetarian

Vegan

Vegetarian

Search Recipe:

https://spoonacular-recipe-food-nutrition-v1.p.mashape.com/recipes/search
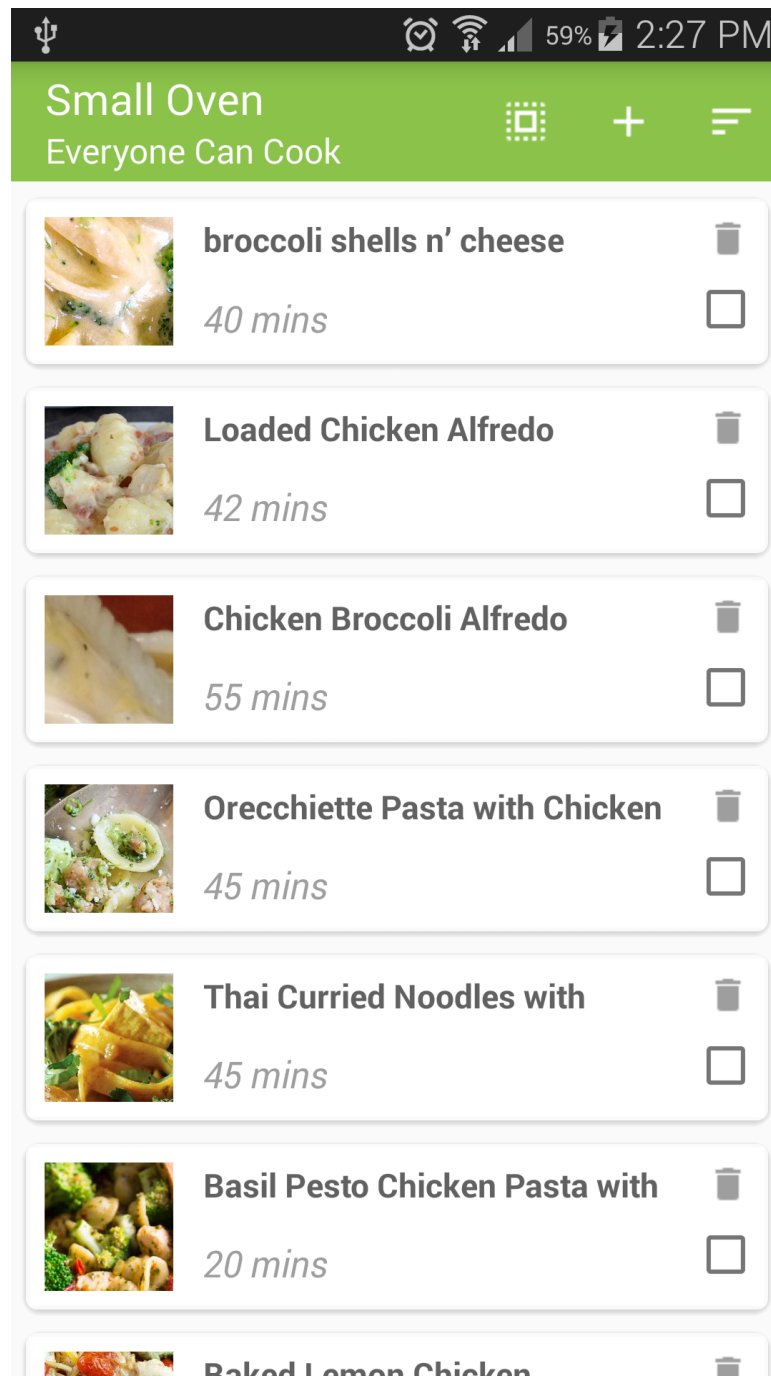
Search results are filtered by the cuisine and diet options.

Fetched results are parsed from json and feeded into *material list view with array adapter.*

We added a Custom action bar to our app screens. In the above screen action bar contains the features of 'Select all', 'add to favorites', and 'more options'

Bibliography

- https://developers.google.com/vision/

- http://www.bigoven.com/

- http://supermarketapi.com/Default.aspx

- https://market.mashape.com/dashboard

- http://docs.aws.amazon.com/AWSECommerceService/latest/DG/ItemLookup.html#ItemLookup-sr