FOODIES
FOOD DELIVERY

ASSIGNMENT 1
COMP2008 - MAD

Gimantha Karunasekara
20521031

Team Partners

Pamodya Piyamini - 20785879

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Introduction

Foodies is a feature rich food purchasing application with a stunning and easy to use user interface. This application provides functionality such as,

- Browse restaurants
- View details of restaurant
- List food items of each restaurant
- View details of each food item
- Purchase items
- View purchase history

Activities

Activity	Description
MainActivity	The main activity where the change of fragments occurs.
SplashScreen	Splash Screen of the application.

Fragments

Fragment	Description
HomeFragment	The landing page of the application where random list of food items is displayed.
RestaurantsFragment	Fragment which displays the restaurants list
RestaurantPageFragment	Fragment which displays information of a selected restaurant including food item list.
LoginFragment	User log in interface of the application.
SignupFragment	User signup/registration interface.
AccountFragment	User account details page which includes purchase history.
CartFragment	Fragment which lists food items added to cart and facilitate user to edit the list and checkout.
ItemInfoFragment	Fragment which displays the details of the food item and facilitates user to select amount and add to the cart.

Other classes

Class	Description
CartAdapter	Adapter for cart items recycler view.
CartItem	Represents an Item in cart.
CartViewHolder	View holder for cart item.

FeaturedItemsAdapter	Adapter for randomly featured food item list on home page.
FeaturedItemViewHolder	View holder for featured item.
FoodItem	Represents a Food item.
FoodItemsAdapter	Adapter for food items list on restaurant page.
FoodItemsViewHolder	View holder for food items.
HistoryAdapter	Adapter for purchase history on account page.
Restaurant	Represents a restaurant.
RestaurantPageAdapter	Adapter for restaurants list.
RestaurantViewHolder	View holder for restaurants.
SeedDatabase	Class which inserts data to database on first run.
User	Represents a user

Database Structure

Table	Description
Restaurants	Stores information of restaurants such as ID, name, description, and reference to image.
Items	Food item details are stored in Items table. The details include ID, name, description reference to image, price of the item and ID of the restaurant which the item is belongs to.
Purchase history	The table which purchased item list of all users are stored. This table includes information such as, ID, number of items purchased, user who purchased the items and date and time. This table is used to get purchase history of each user.
Users	Stores information of all users. Information includes username, email, password, address and telephone number.

Individual contribution

During this project I have contributed by,
- Making restaurant page
- Initializing all the fragments
- Making cart fragment (excluding item views of cart items)

- Making home page (including all components displayed on it)
- Making model class for the database.
- Making cursor class for the database.
- Making Item information page.

Additionally, I have handled most of the out of module scope parts (Additional) of this project such as,
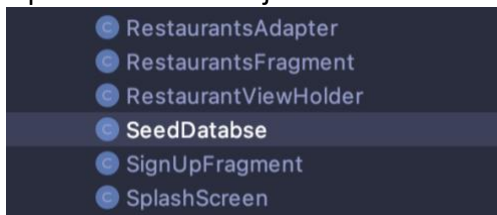
- Navigation component
- Bottom navigation
- Data passing between fragments using SafeArgs.
- Bottom navigation
- Custom Action bar
- Theme (Icon, colors etc.)

I have worked around 24 hours on this project and worked collaboratively with my team partner. While we mostly communicated with each other by in-person discussions, we have used git hub to work on this project together.
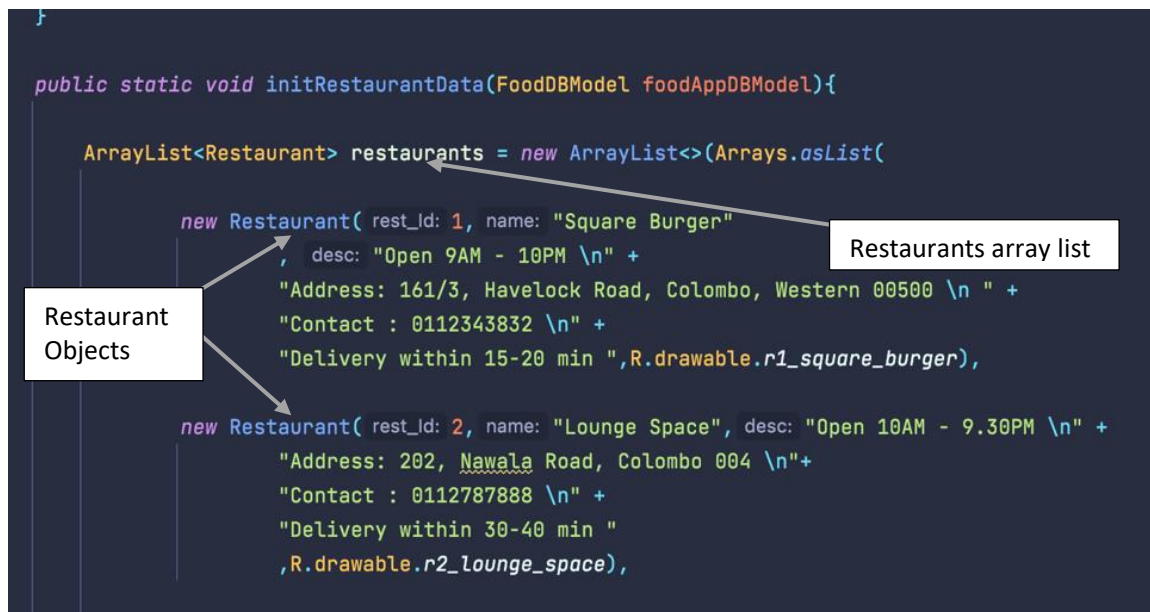
Maintenance Guide

Add a new restaurant to application

1. Open **seedDatabse** java class file.

2. Navigate to **initRestaurantData** method in the file.

3. Inside the method the restaurants array list can be found. Each of the Restaurant object inside the array will be added to the database when the application is starting up for the first time.

```
    }

    public static void initRestaurantData(FoodDBModel foodAppDBModel){

        ArrayList<Restaurant> restaurants = new ArrayList<>(Arrays.asList(

            new Restaurant( rest_Id: 1, name: "Square Burger"
                    , desc: "Open 9AM - 10PM \n" +
                    "Address: 161/3, Havelock Road, Colombo, Western 00500 \n " +
                    "Contact : 0112343832 \n" +
                    "Delivery within 15-20 min ",R.drawable.r1_square_burger),

            new Restaurant( rest_Id: 2, name: "Lounge Space", desc: "Open 10AM - 9.30PM \n" +
                    "Address: 202, Nawala Road, Colombo 004 \n"+
                    "Contact : 0112787888 \n" +
                    "Delivery within 30-40 min "
                    ,R.drawable.r2_lounge_space),
```

Restaurants array list

Restaurant Objects

4. Add new restaurant data with the next restaurant ID (Restaurant ID is a primary key) and the data.

```
                    Delivery within 10-15 min
                    ,R.drawable.r9_juice_land),

            new Restaurant( rest_Id: 10, name: "Dessert Haven", desc: "Open 9AM - 8PM \n"
                    "Address: 10A, Red Avenue, Colombo 07 \n " +
                    "Contact : 0112229382 \n" +
                    "Delivery within 15-20 min "
                    ,R.drawable.r10_dessert_haven),

            new Restaurant( rest_Id: 11)
    ));
```

Add a new items to restaurants

1. Navigate to the **initFood** method in **seedDatabase** java class file.
2. Add the items to **foodItems** array by creating a new **foodItem** inside the array make sure to give the correct restaurant ID of the restaurant which the item belongs to. This array will load food items data to the database when the app is starting for the first time.
3.

```
}
}
public static void initFood(FoodDBModel foodAppDBModel)
{
    // food item id will not make any affect
    ArrayList<FoodItem> foodItems = new ArrayList<>(Arrays.asList(
        new FoodItem( id: 1, name: "Chicken Burger",  d         rful g
            " burgers are a delicious alternative           l keep
            " from spring to fall. Top with spicy           sauce",
        new FoodItem( id: 2,  name: "Hamburger",  desc: "Consisting of fillings
            "ground meat, typically beef placed inside a sliced bun. "
            "Served with cheese, lettuce, tomato, onion, pickles, bacon
            "condiments such as ketchup, mustard, mayonnaise, relish, o
```

initFood method

foodItems arrayList

FoodItem objects

Important:

- ID of food items does not matter (It'll be assigned with a suitable ID by the database)
- Data will be initialized if and only if the database is empty. This method of data insertion is in place to prevent data from being added to the database each time the app is opened.

```
public static void initAll(View view)
{

    FoodDBModel foodAppDBModel = new FoodDBModel();
    foodAppDBModel.load(view.getContext());

    ArrayList<Restaurant> restaurants = foodAppDBModel.getAllRestaurant

    if (restaurants.size() == 0) // only re-load items to database if n
    {
        initRestaurantData(foodAppDBModel);
        initUseres(foodAppDBModel);
        initFood(foodAppDBModel);
    }

}
```

- Images should be added to the **drawable** directory and resource id of the image file should be used as the reference of the image when adding restaurants or food items.
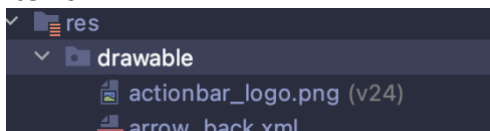
```
res
  drawable
      actionbar_logo.png (v24)
      arrow_back.xml
```

```
r1_square_burger.jpg (mdpi)
r2_lounge_space.jpg (mdpi)
```

```
new Restaurant( rest_id: 1, name: "Square Burger"
    , desc: "Open 9AM - 10PM \n" +
    "Address: 161/3, Havelock Road, Colombo, Western 00500 \n " +
    "Contact : 0112743832 \n" +
    "Delivery within 15-20 min ",R.drawable.r1_square_burger),
```

Image References

Restaurant Images

1. Square Burger

 https://www.pexels.com/photo/three-cheese-burgers-2280573/

2. Lounge Space

https://www.pexels.com/photo/closeup-photo-of-barbecues-899237/

3. Sugary Moon

https://www.pexels.com/photo/display-of-gourmet-cakes-and-sweets-in-a-bakery-8212187/

4. Flavor Spark

https://www.pexels.com/photo/steamed-food-with-leafs-on-table-1833349/

5. Hang Gook Gwan

https://www.pexels.com/photo/a-delicious-noodle-soup-topped-with-shredded-chicken-and-scallions-5339084/

6. Yum Vibe

https://www.pexels.com/photo/three-bottles-of-smoothie-berries-and-dragon-fruit-on-white-background-4443487/

7. BOA Pizza

https://www.pexels.com/photo/pizza-on-wooden-table-3682838/

8. Daily Bread

https://www.pexels.com/photo/bakery-with-buns-on-shelves-4913457/

9. Juice Land

https://www.pexels.com/photo/three-bottles-of-smoothie-berries-and-dragon-fruit-on-white-background-4443487/

10. Dessert Haven

https://www.pexels.com/photo/donuts-and-bagel-display-205961/

Food Item Images

Restaurant 1 – Square Burger

1. Chicken Burger

https://www.pexels.com/photo/close-up-photo-of-a-cheese-burger-1633578/

2. Beef Burger

https://www.pexels.com/photo/selective-focus-photo-of-cheeseburger-1199960/

3. Cheese Burger

https://www.pexels.com/photo/close-up-photo-of-cheesy-burger-6697455/

4. Egg Burger

https://www.pexels.com/photo/burger-with-sunny-side-up-on-white-surface-2293537/

5. French Fries

https://www.pexels.com/photo/french-fries-on-basket-strainer-9328478/

6. Fried Chicken

https://www.pexels.com/photo/close-up-of-fried-chicken-covered-with-sauce-6368747/

   Restaurant 2 - Lounge Space

1. Seafood BBQ

https://www.pexels.com/photo/plate-of-barbeques-on-dining-table-2689419/

2. Chicken BBQ

https://www.pexels.com/photo/barbecue-meat-on-the-round-plate-with-onion-rings-5987010/

3. Seafood Pasta

https://www.pexels.com/photo/close-up-shot-of-a-seafood-pasta-13322666/

4. Vegetable Salad

https://www.pexels.com/photo/appetizer-close-up-cuisine-delicious-434258/

5. Fried Rice

https://www.pexels.com/photo/fried-rice-and-kebab-with-mixed-vegetables-on-blue-plate-12842254/

Restaurant 3 – Sugary Moon

1. Banana Split

https://www.pexels.com/photo/photo-of-a-plate-with-banana-split-4875225/

2. Chocolate Cake

https://www.pexels.com/photo/a-slice-of-chocolate-cake-with-cherry-on-top-10620458/

3. Lemon Cake

https://www.pexels.com/photo/close-up-of-lemon-cake-on-plate-5635698/

4. Lava Cake

https://www.pexels.com/photo/a-lava-cake-with-ice-cream-and-cherry-on-top-10480244/

5. Doughnut

https://www.pexels.com/photo/close-up-photo-of-stacked-doughnut-with-sprinkles-3253735/

Restaurant 4 – Flavor Spark

1. Dim Sum

https://www.pexels.com/photo/soup-with-dimsums-and-vegetables-on-ceramic-bowl-5409015/

2. Pad Thai

https://www.pexels.com/photo/chicken-pad-thai-in-close-up-shot-12561888/

3. Shawarma

https://www.pexels.com/photo/a-delicious-shawarma-on-a-brown-tray-5837105/

4. Sushi

https://www.pexels.com/photo/plate-of-sushi-858496/

5. Tom Yum

https://www.pexels.com/photo/a-close-up-shot-of-a-delicious-tom-yum-12913680/

Restaurant 5 – Hang Gook Gwan

1. Frutti Di Mare

https://www.pexels.com/photo/serving-of-salad-of-frutti-di-mare-and-vegetables-10875299/

2. Rissoto

https://www.pexels.com/photo/a-risotto-on-a-ceramic-bowl-6659610/

3. Ramen Noodles

https://www.pexels.com/photo/cooked-ramen-1907244/

4. Kimchi

https://www.pexels.com/photo/delicious-kimchi-in-white-ceramic-bowl-8838404/

5. Tteok-Bokki

https://www.pexels.com/photo/a-flatlay-of-tteokbokki-in-a-bowl-12963392/

Restaurant 6 – Yum Vibe
1. Penne Arrabiata
https://www.pexels.com/photo/pasta-with-green-leaf-and-chili-pepper-1460872/
2. Chicken Meatballs
https://www.pexels.com/photo/assorted-japanese-cuisine-1893561/
3. Roasted Chicken Wings
https://www.pexels.com/photo/close-up-photo-of-roasted-chicken-wings-2338407/
4. Spaghetti
https://www.pexels.com/photo/spaghetti-with-meatballs-on-ceramic-plate-9617397/
5. Taco
https://www.pexels.com/photo/tacos-topped-with-chopped-onions-and-herbs-7388096/

Restaurant 7 – BOA Pizza
1. Cheese Pizza
https://www.pexels.com/photo/pizza-with-cheese-and-green-leaves-7813575/
2. Tomato Pie
https://www.pexels.com/photo/tasty-fresh-pizza-with-tomato-and-olive-5695944/
3. Green Pizza
4. Pepperoni Pizza
https://www.pexels.com/photo/pepperoni-pizza-803290/
5. Apizza
https://www.pexels.com/photo/top-view-photo-of-baked-pizza-2147491/
6. Mushroom Pizza
https://www.pexels.com/photo/a-pizza-with-mushroom-toppings-on-a-glass-plate-4315769/

Restaurant 8 – Daily Bread
1. Bakvala
https://www.pexels.com/photo/a-baklava-on-a-plate-6419597/
2. Chicken Puff Pastry
https://pixabay.com/photos/bread-pastry-food-dish-snack-6322034/
3. Croissant
https://www.pexels.com/photo/food-france-morning-breakfast-2135/
4. Fish Roll
https://pixabay.com/photos/fish-rolls-rolls-fried-6316589/
5. Submarine
https://www.pexels.com/photo/white-cream-on-white-bowl-1633525/

Restaurant 9 – Juice Land
1. Chocolate Milkshake
https://www.pexels.com/photo/chocolate-milkshake-3727250/
2. Vegan Smoothie
https://www.pexels.com/photo/fresh-vegan-smoothie-5946789/
3. Passion Fruit Juice
https://www.pexels.com/photo/sliced-lime-and-passion-fruit-on-an-ice-cold-drink-5668203/

4. Strawberry Milkshake

https://www.pexels.com/photo/strawberry-shake-3625372/

5. Mango Smoothie

https://www.pexels.com/photo/close-up-of-a-mango-juice-12364376/

6. Peanut Smoothie

https://www.pexels.com/photo/peanut-smoothie-on-stylish-glasses-4112870/

Restaurant 10 – Dessert Haven

1. Chocolate Muffins

https://www.pexels.com/photo/photo-of-chocolate-muffins-on-cloth-4051553/

2. Chocolate Mousse

https://www.pexels.com/photo/close-up-photo-of-chocolate-mousse-3026810/

3. Chocolate Brownies

https://www.pexels.com/photo/close-up-photo-of-stacked-chocolate-brownies-2373520/

4. Crème Caramel

https://www.pexels.com/photo/berry-breakfast-caramel-confectionery-302468/

5. Fried Ice-cream

https://www.pexels.com/photo/close-up-shot-of-a-fried-ice-cream-4858510/

6. Tiramisu

https://www.pexels.com/photo/photo-of-a-tiramisu-with-a-blackberry-4861852/

7. Waffle

https://www.pexels.com/photo/waffle-on-white-ceramic-plate-4663893/