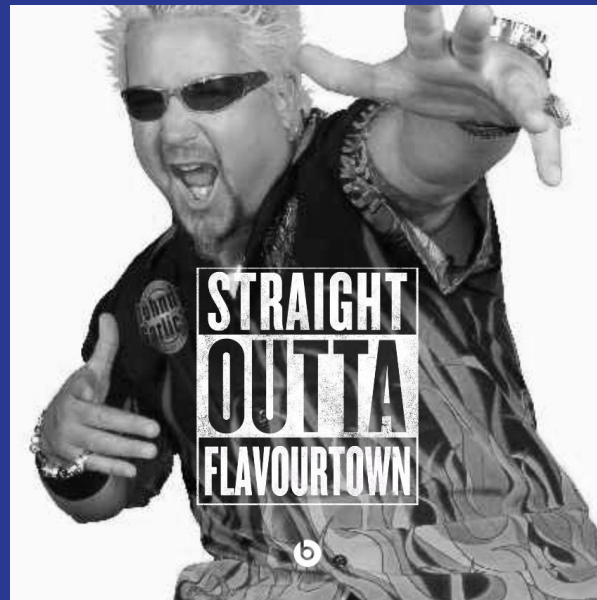


Flavor Town Design

Helping you find your new favorite meal



Ian Campbell, Tyler Gabriel, Austyn Trull, and Joe Xu

Design Outline

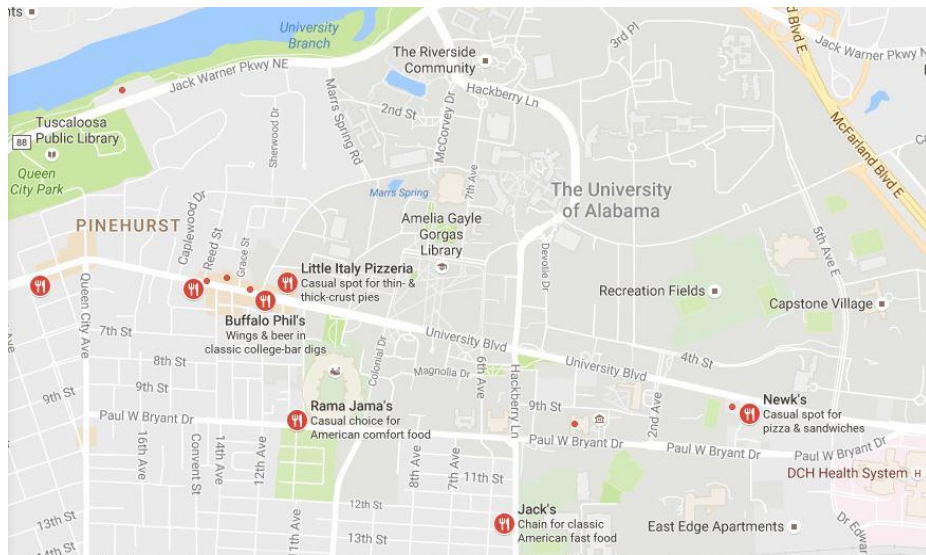
- Problem Definition and Scope
- Detailed Class Diagram
- Sequence Diagram
- Changes to Project



Problem Definition

How often do you go to a new restaurant (or an old favorite) and not know what you want to get?

How often do you vacation somewhere and want to try the local food?



Project Scope:

To create a
platform for people
to try, rate, and find
new foods



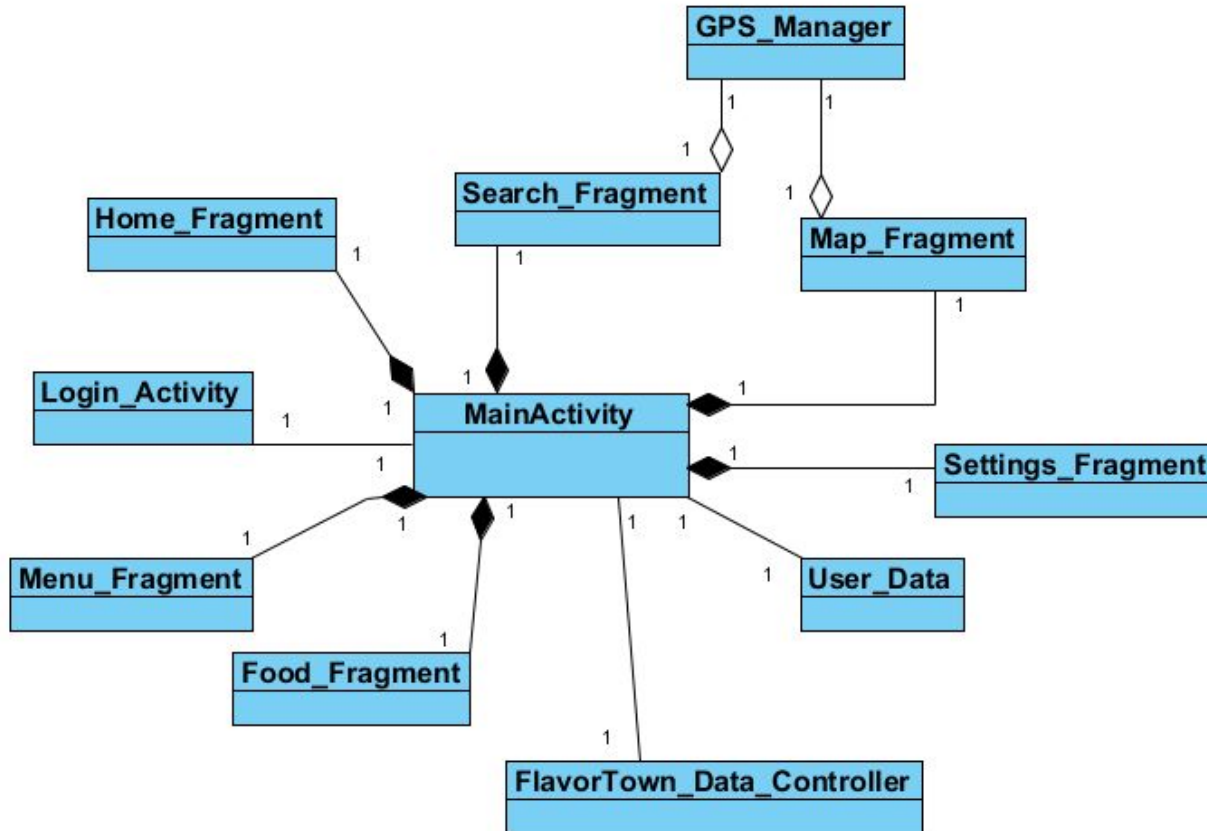


The solution

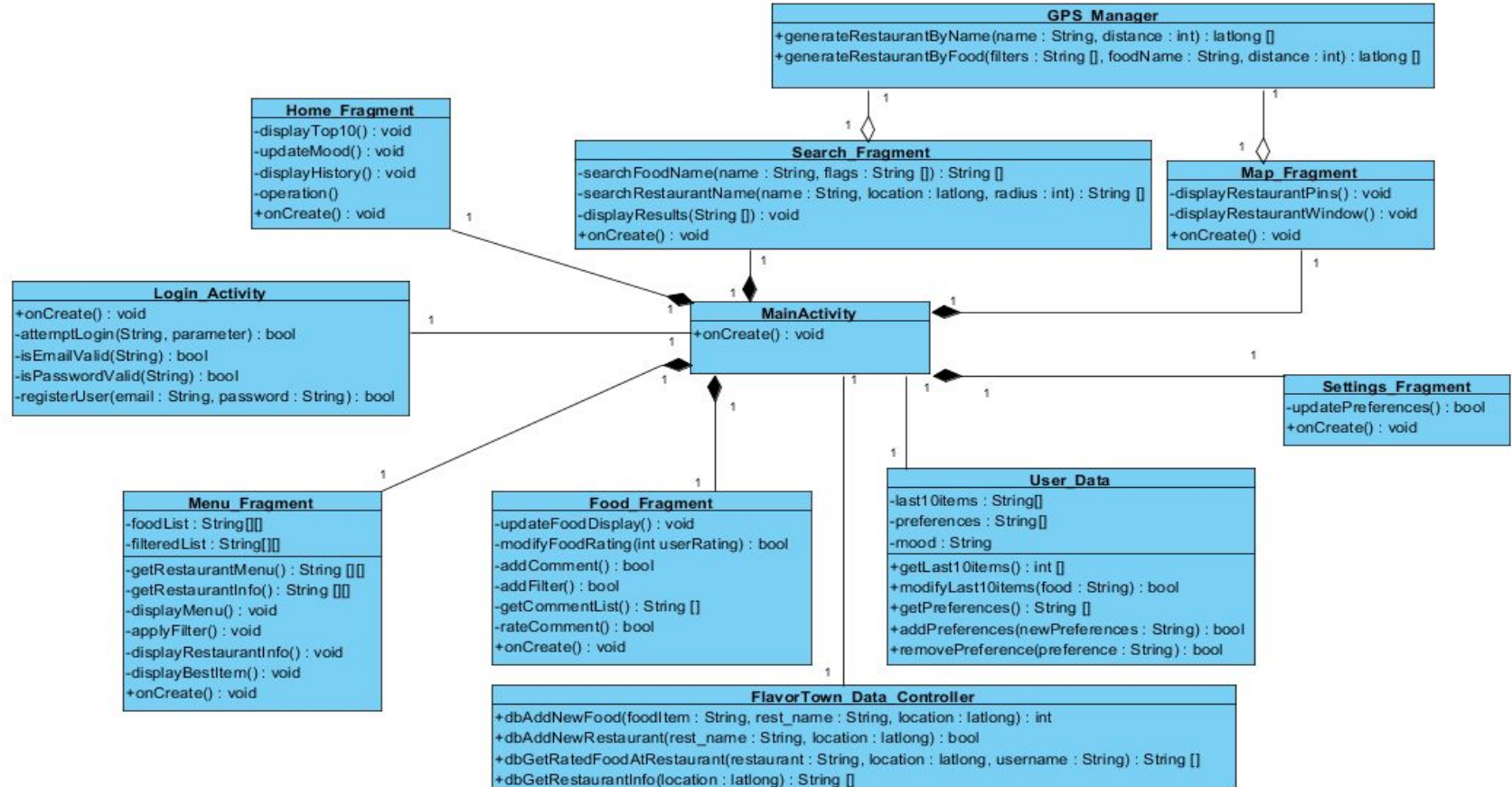
1. Pull up local restaurants on the app.
 2. Display the menu of your restaurant of choice.
 3. Sort recommendations based off of other user's ratings.
 4. Order your food.
 5. Enjoy!
-

Class Diagram

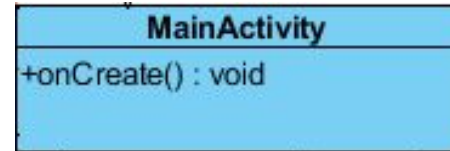
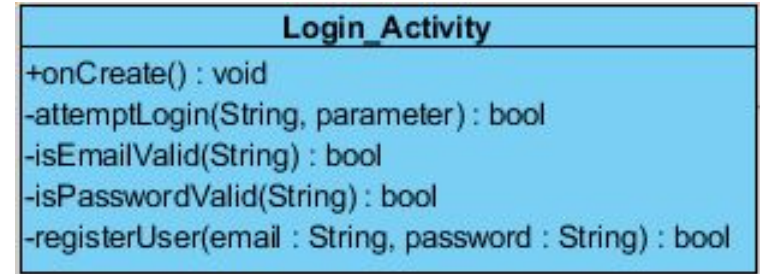
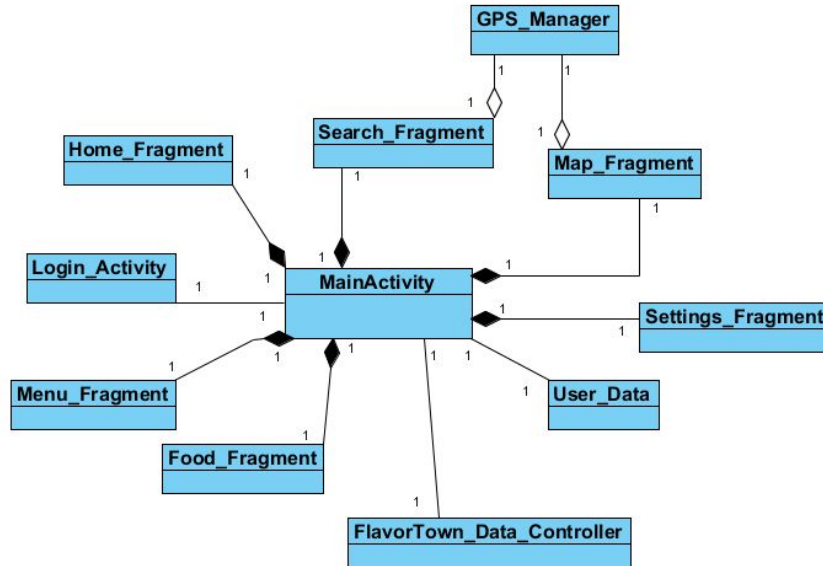
High Level Class Diagram



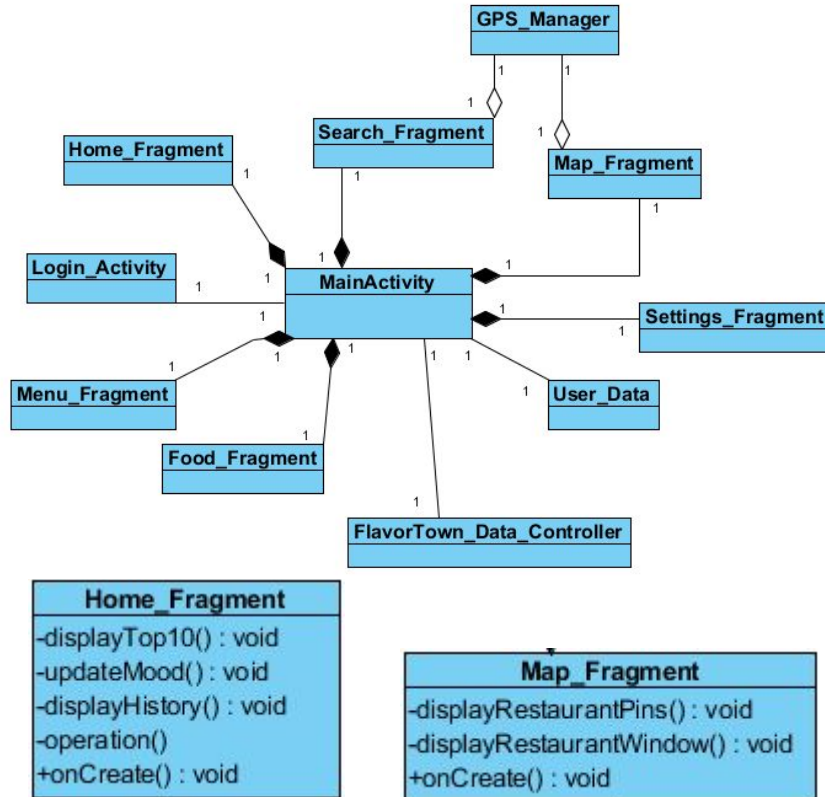
Detailed Class Diagram



Detailed Class Diagram - Login_Activity & MainActivity



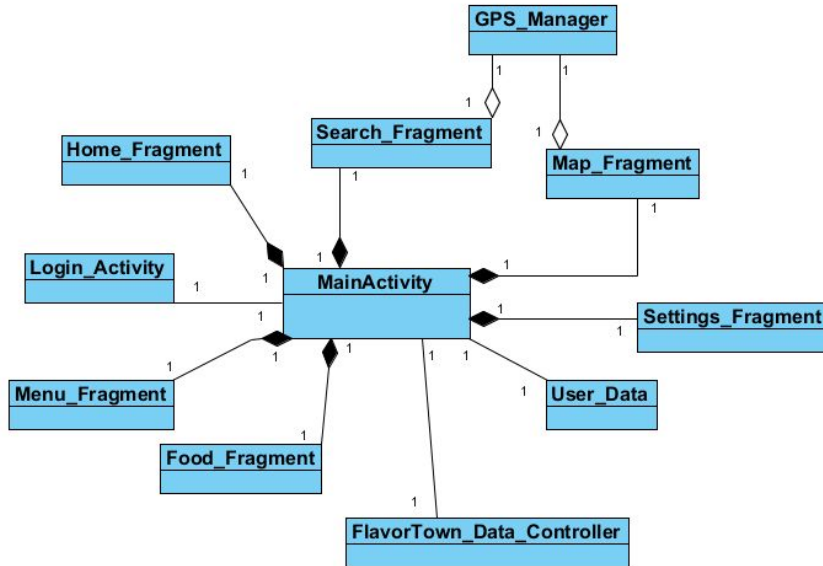
Detailed Class Diagram - Fragments



Menu_Fragment
-foodList : String[]
-filteredList : String[]
-getRestaurantMenu() : String []
-getRestaurantInfo() : String []
-displayMenu() : void
-applyFilter() : void
-displayRestaurantInfo() : void
-displayBestItem() : void
+onCreate() : void

Food_Fragment
-updateFoodDisplay() : void
-modifyFoodRating(int userRating) : bool
-addComment() : bool
-addFilter() : bool
-getCommentList() : String []
-rateComment() : bool
+onCreate() : void

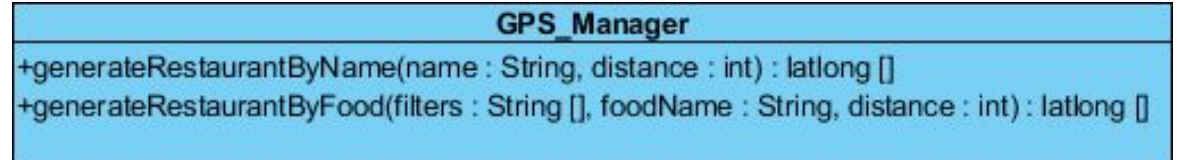
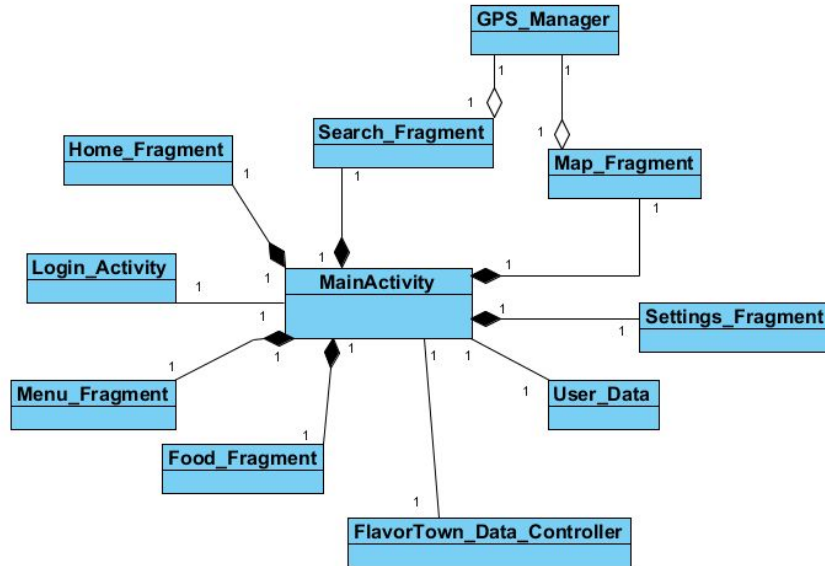
Detailed Class Diagram - Data Handlers



User_Data
<ul style="list-style-type: none">-last10items : String[]-preferences : String[]-mood : String
<ul style="list-style-type: none">+getLast10items() : int []+modifyLast10items(food : String) : bool+getPreferences() : String []+addPreferences(newPreferences : String) : bool+removePreference(preference : String) : bool

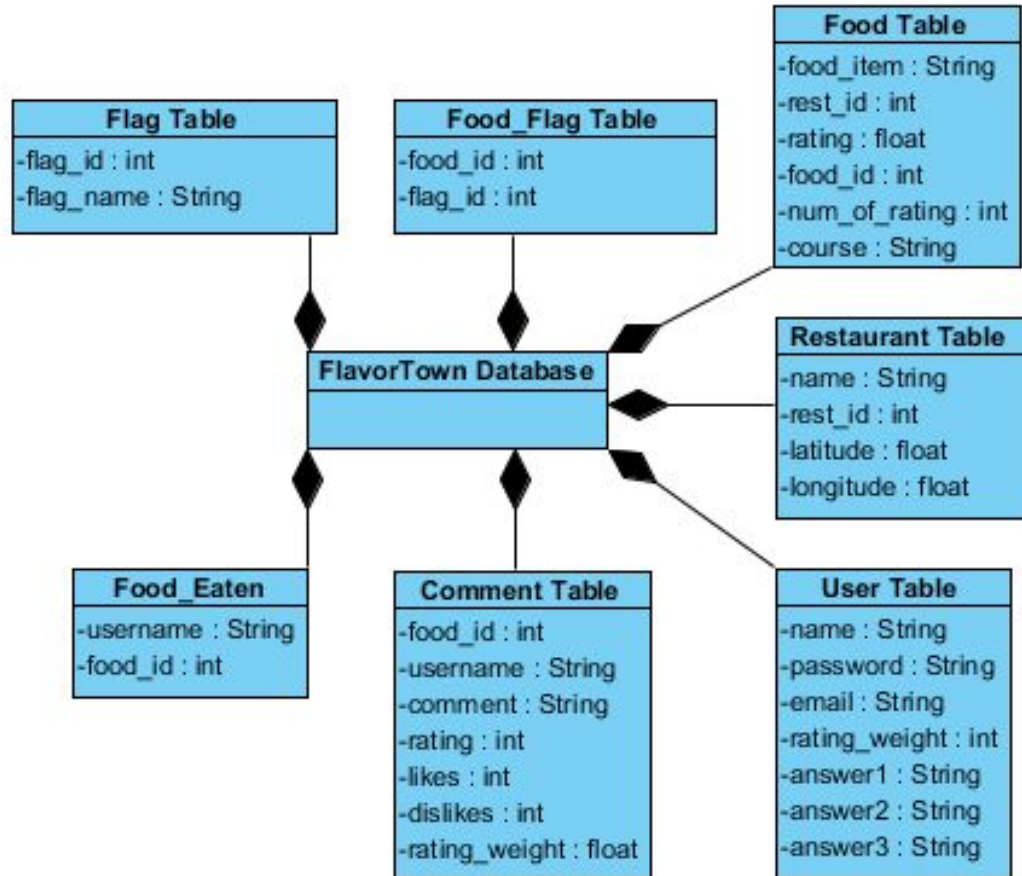
FlavorTown_Data_Controller
<ul style="list-style-type: none">+dbAddNewFood(foodItem : String, rest_name : String, location : latlong) : int+dbAddNewRestaurant(rest_name : String, location : latlong) : bool+dbGetRatedFoodAtRestaurant(restaurant : String, location : latlong, username : String) : String []+dbGetRestaurantInfo(location : latlong) : String []

Detailed Class Diagram - GPS_Manager



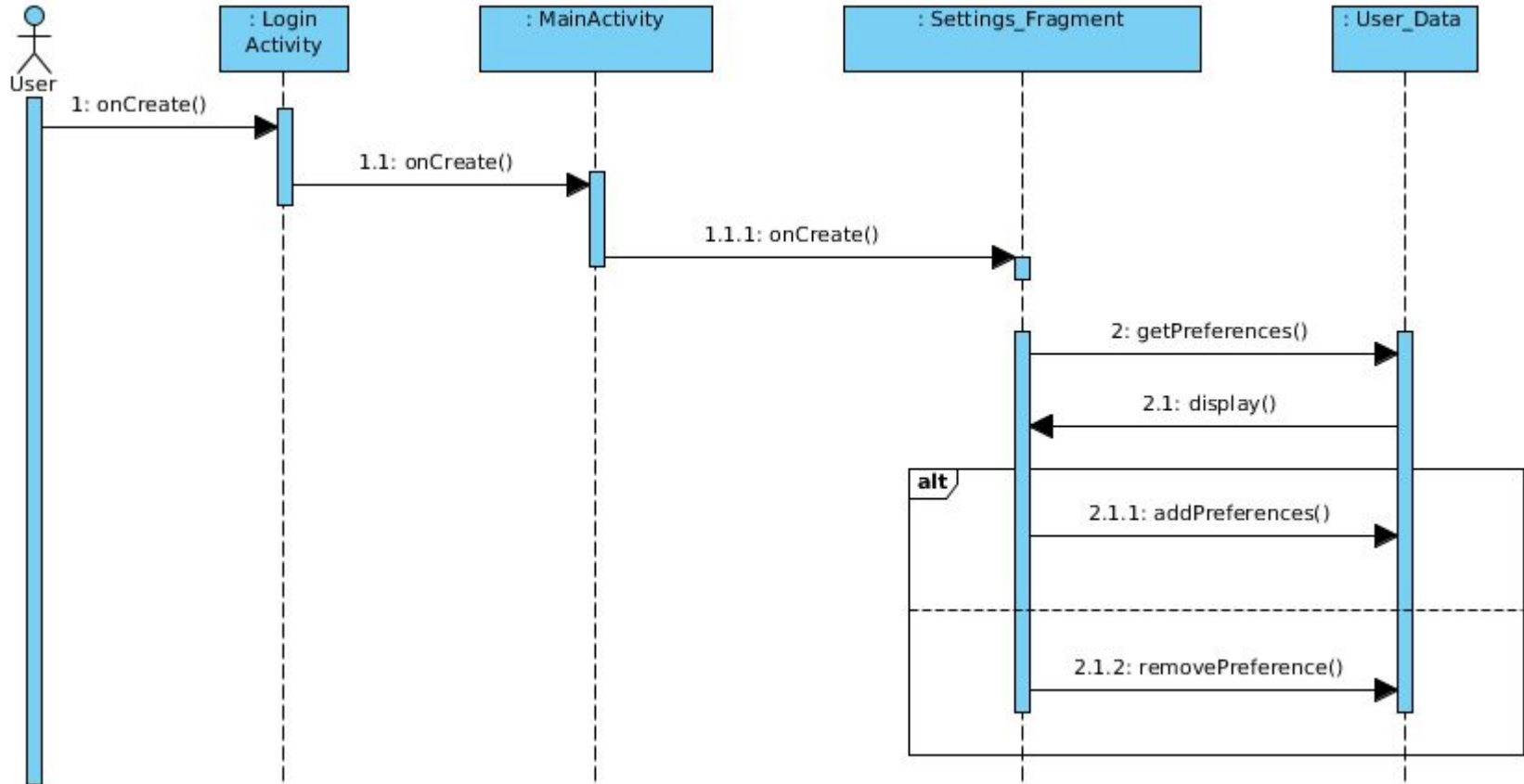
Database Diagram

Database Diagram

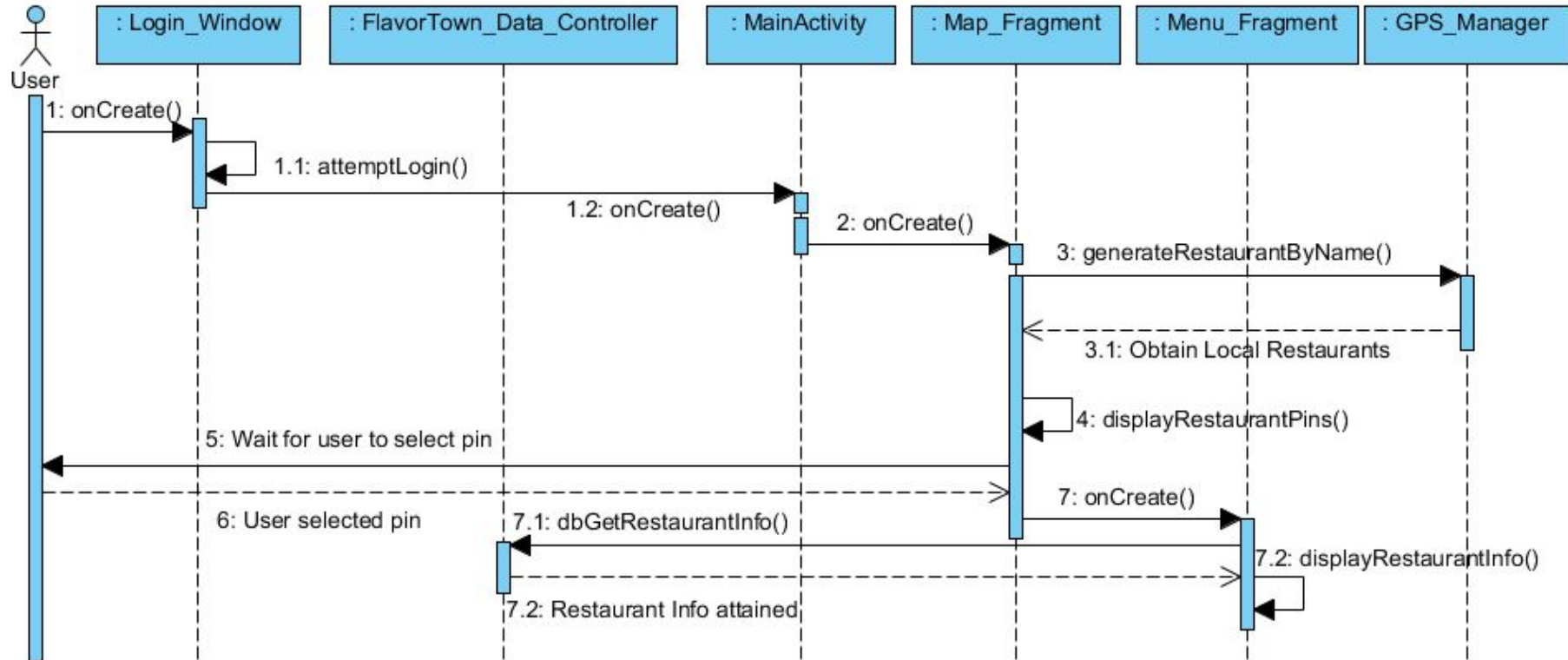


Sequence Diagrams

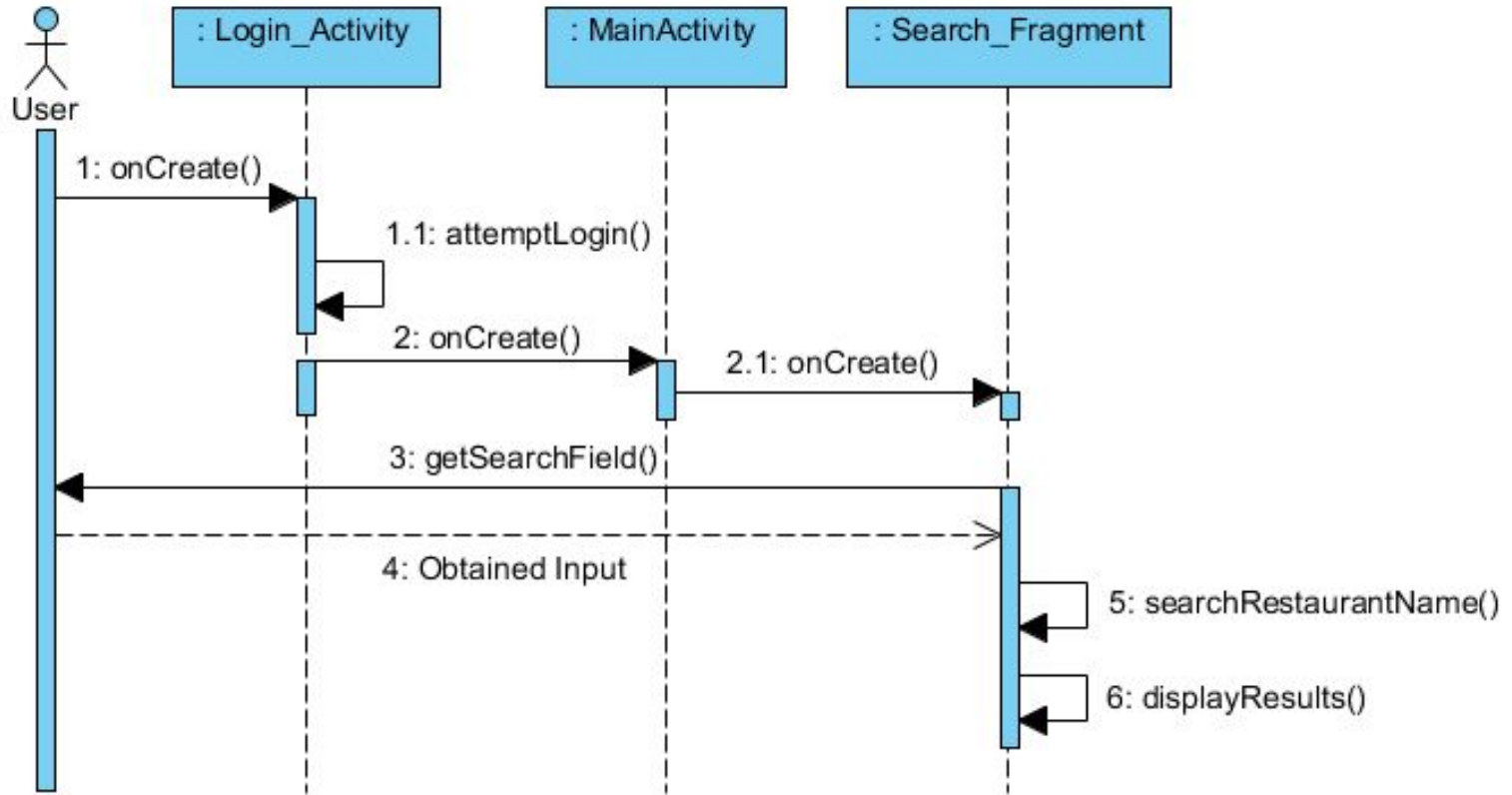
Sequence Diagram - Modify Preferences



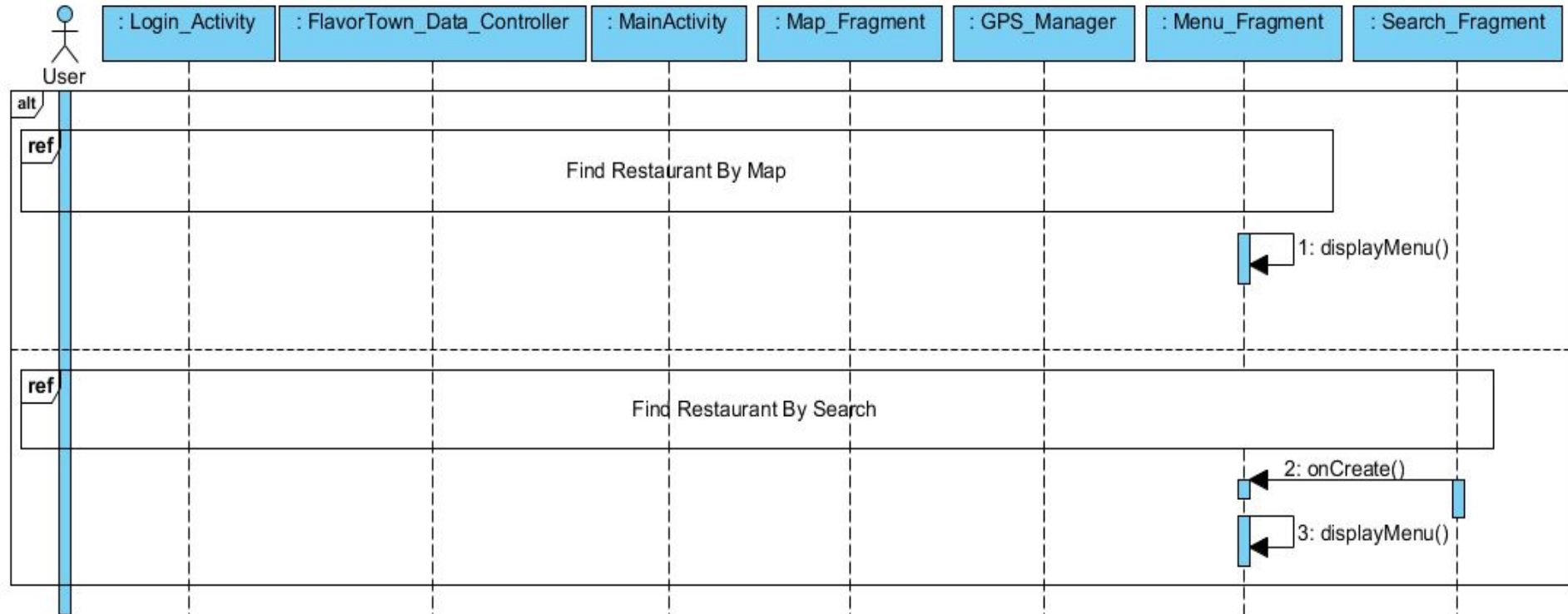
Sequence Diagram - Find Restaurant By Map



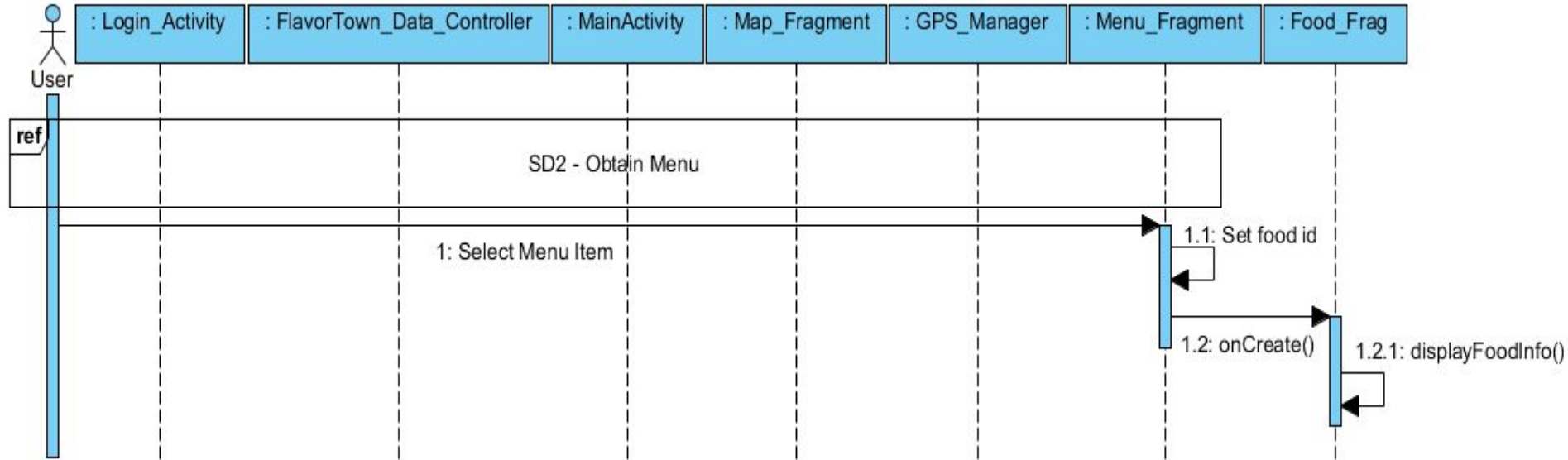
Sequence Diagram - Find Restaurant By Search



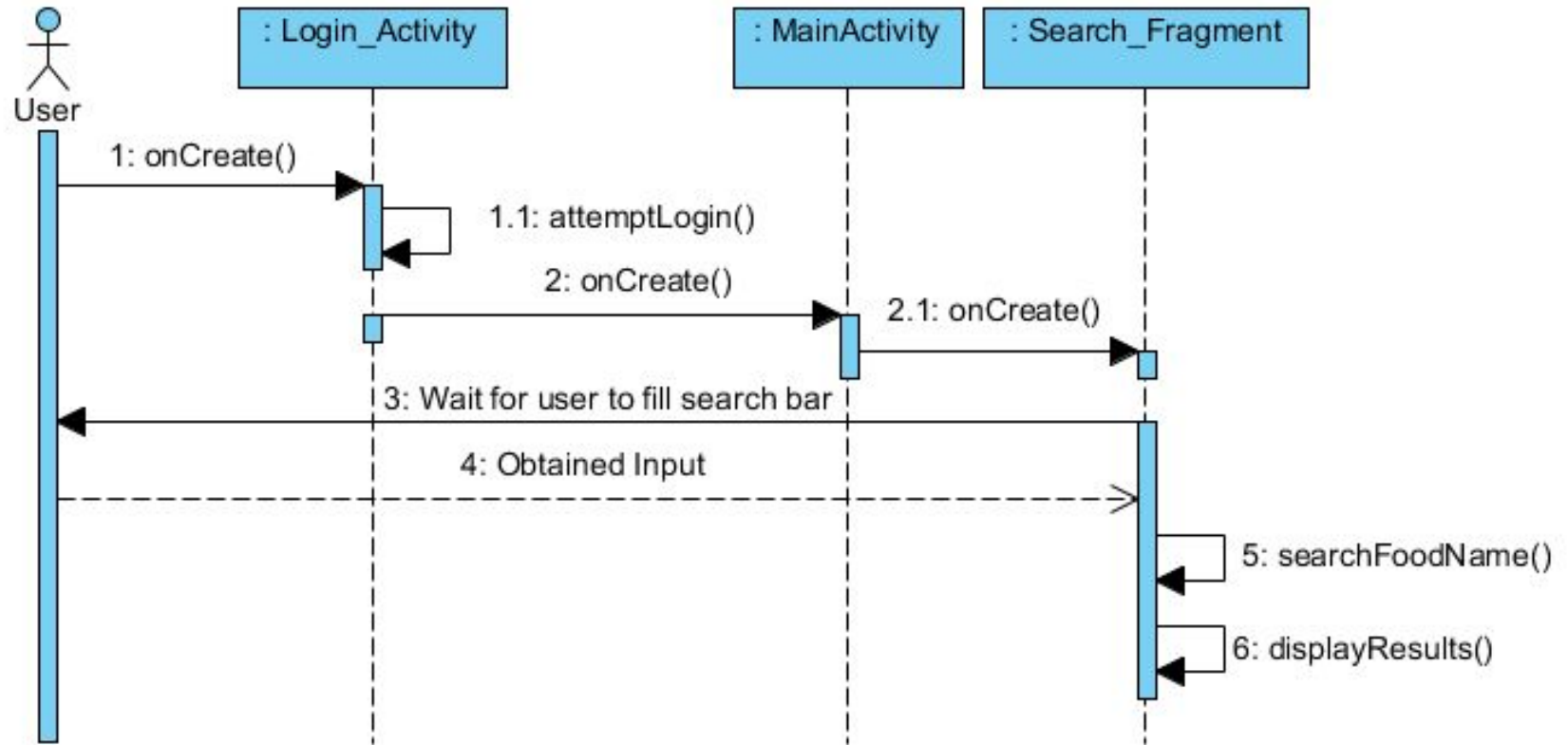
Sequence Diagram - Obtain Menu



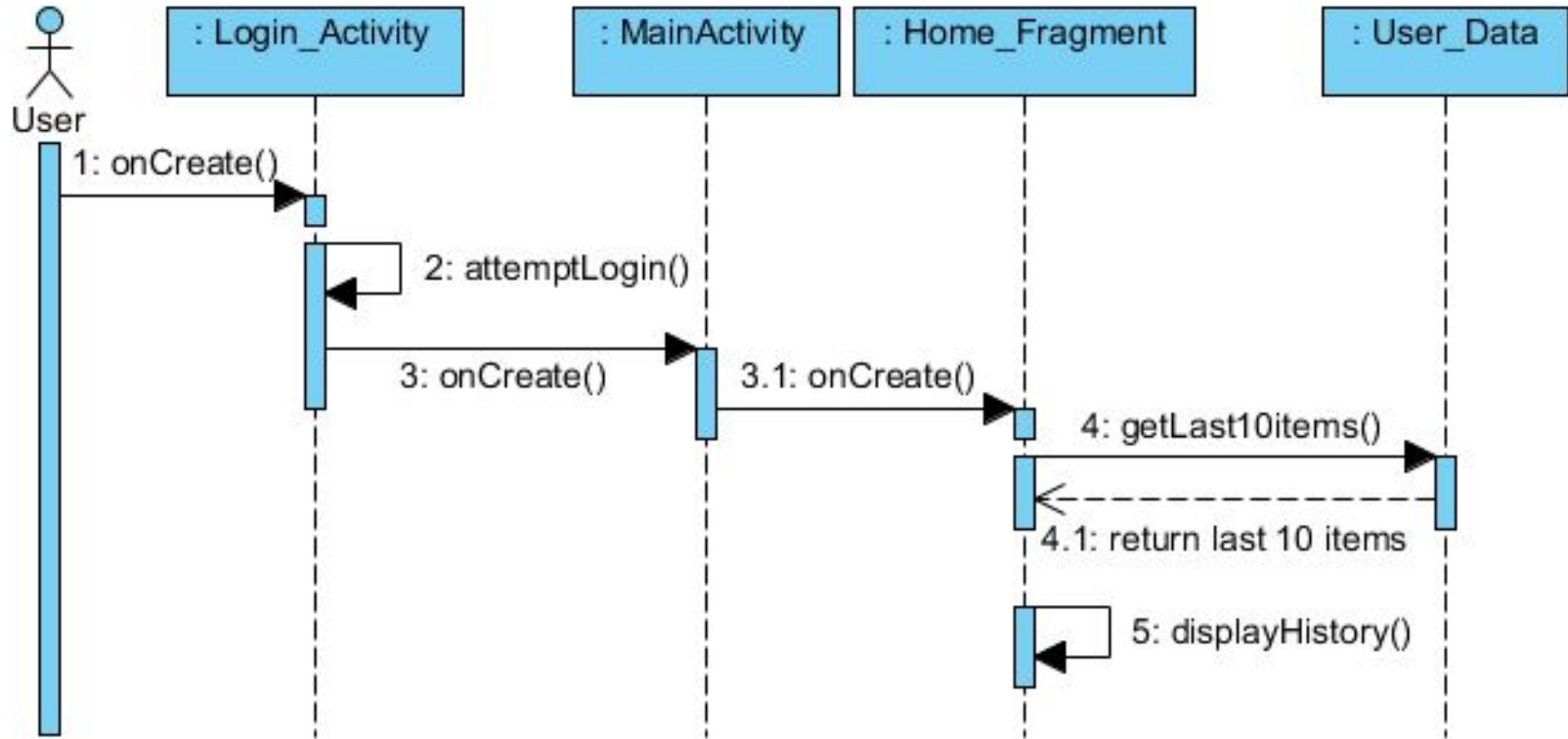
Sequence Diagram - Find Food Off Menu



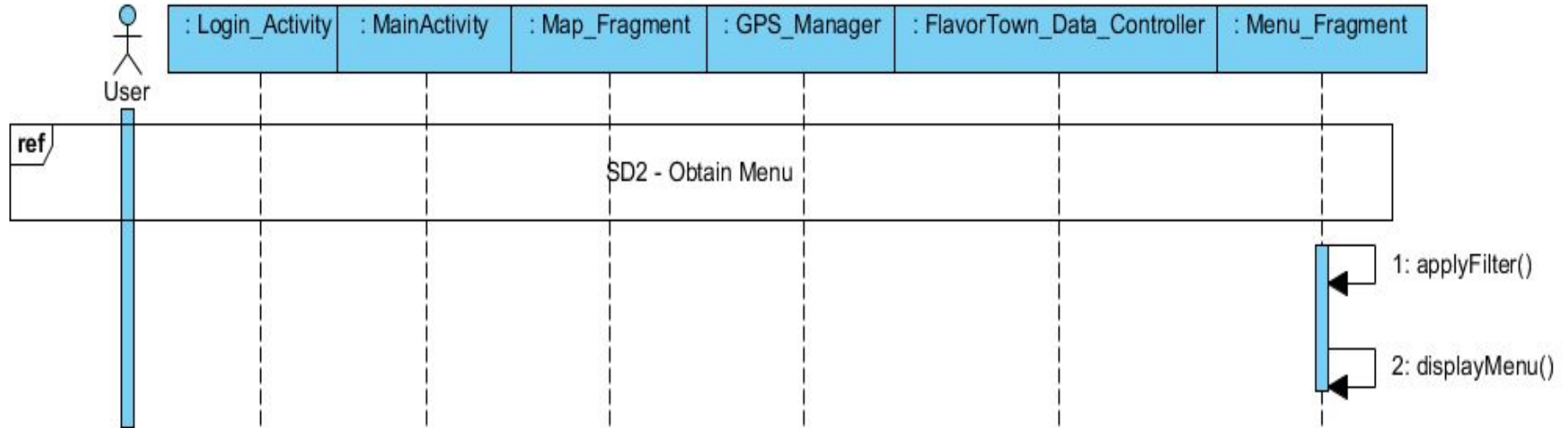
Sequence Diagram - Find Food By Search



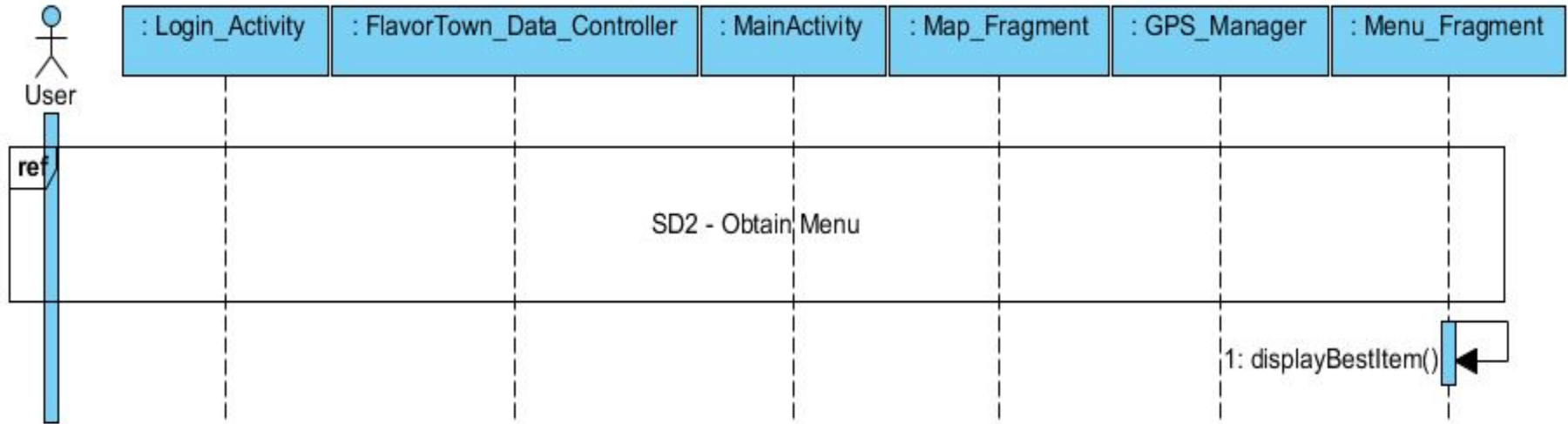
Sequence Diagram - Find Food By History



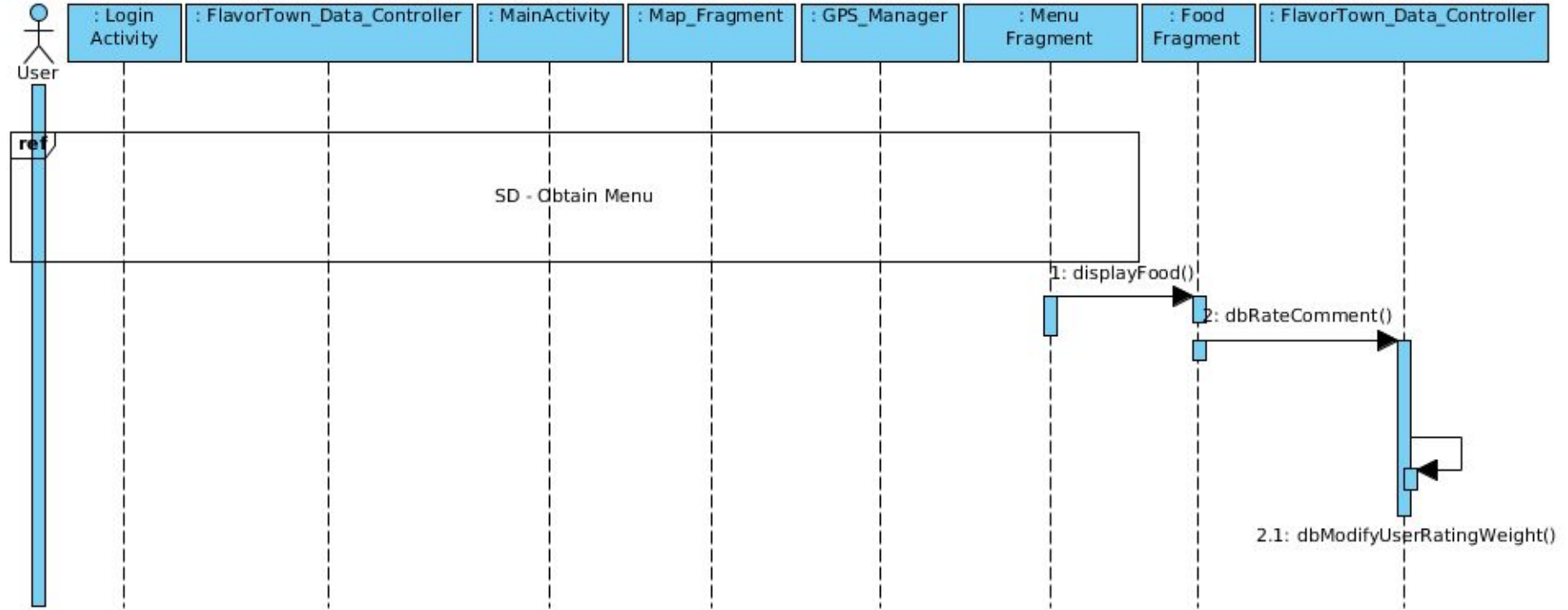
Sequence Diagram - Filter Menu



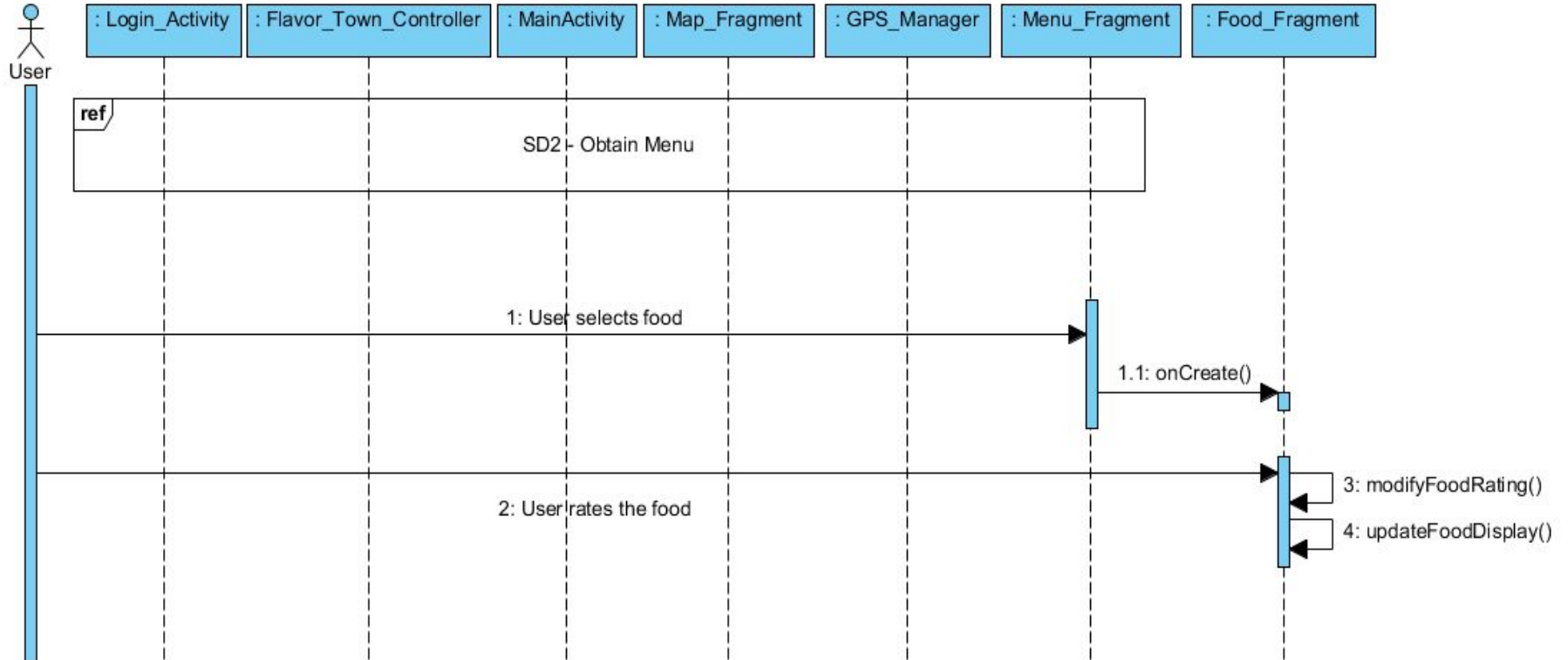
Sequence Diagram - Display Best Items



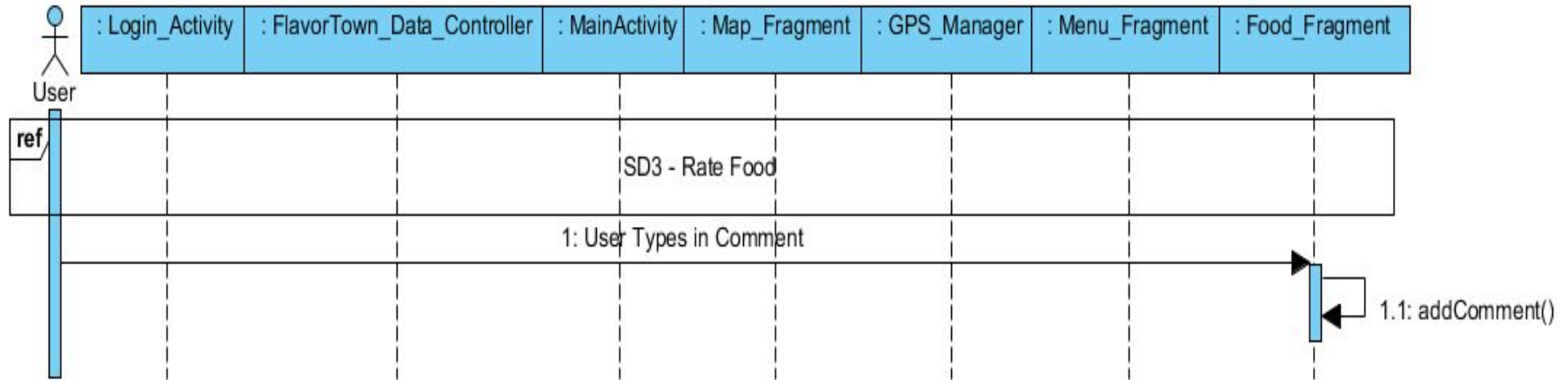
Sequence Diagram - Modify Rating Weights



Sequence Diagram - Rate Food



Sequence Diagram - Add User Comment



Conclusions

Changes to Project

- Shelved recommendations based on food preferences.
- Added the option to search food as a low priority requirement.
- Added a search bar function that allows the user to search for a specific food item or restaurant by name instead of going through the map UI.



Team Member's Discussions

-



An aerial photograph of the New York City skyline at dusk. The sky is a mix of dark purple, blue, and orange. The city is densely packed with skyscrapers, many of which are illuminated with their interior lights. The Empire State Building is prominent in the center, with its top lit in red and green. The Hudson River is visible on the right side of the image. The word "Questions?" is overlaid in the center in a large, white, sans-serif font.

Questions?