

SARAPP

(Search and Rate Application of Food Places in UP Diliman)

Software Architecture

Submitted to:

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Revision Control

History Revision:

Revision Date	Person Responsible	Version Number	Modification
11/30/17	Richelle Yap	1.0	Initial Document; Filled all the missing fields except for the UI design classes and data design table
12/01/17	Angelika Galang	2.0	Filled out the UI design classes table; Edited user interfaces' boundary tag to screen tag
12/01/17	Julian Troy Valdez	3.0	Filled out Data Design Classes table

Purpose:

This document shows the consolidated user interface design, business logic, and data design classes of SARAPP through the software architecture diagram.

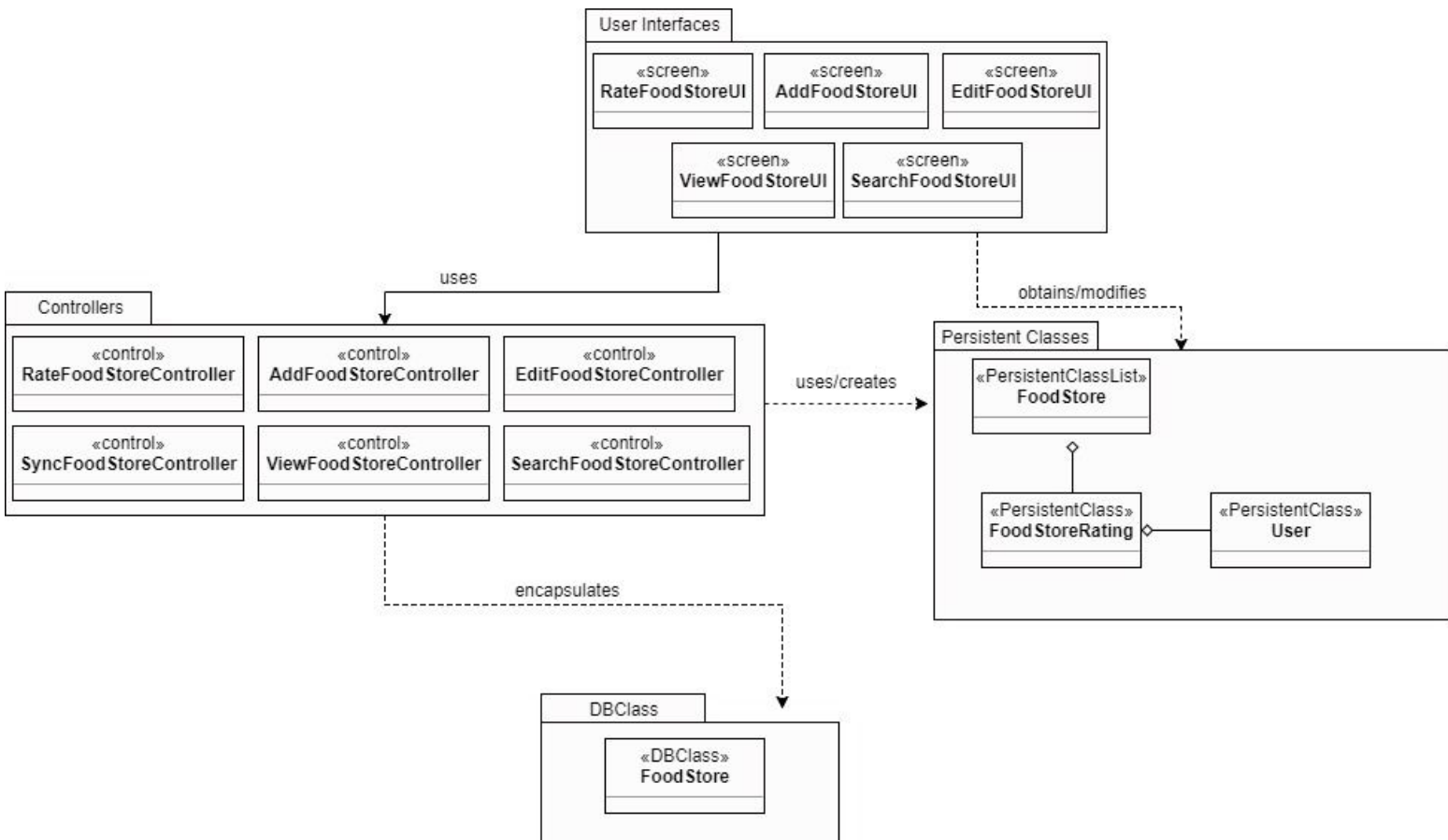
Audience:

This document serves as a partial fulfillment of academic requirements for the CS 191 Software Engineering course, handled by Ma'am Rowena Solamo, to whom this document is made for. Additionally, the users of the application will mainly consist of student, teachers, staff, and guests who would visit and look for some place to eat inside University of the Philippines Diliman.

System Name: SARAPP (Search and Rate Application for Food Stores in UP Diliman)

Description: SARAPP is a mobile application that allows students to rate and search for food places around University of the Philippines Diliman. This application helps students look and discover food places that match their needs according to budget, location, ambiance, and food quality. This also allows food place owners to see the ratings to deliver to the customers' needs.

Software Architecture Diagram:



User Interface Design Classes:

Screen Name	Description
SearchFoodStoreUI	This interface lets the User search for a specific food store by inputting its name.
RateFoodStoreUI	This interface allows the User to rate a food store. Users can enter feedback of the store's food quality, pricing, ambience, and service. Users can also opt to add pictures and comments. In this interface, users have the option to add their date of visit.
ViewStoreProfileUI	This interface contains the food store's information which includes its name, location, cuisine type, picture (if available), and ratings submitted by the users (if there are any).
AddFoodStoreUI	This interface permits the Admin to add another food store with its corresponding information to the current existing list of food stores.
EditFoodStoreUI	This interface permits the Admin to edit an existing food store's information.
SyncFoodStoreSI	This system interface syncs the data available to the User and Admin to ensure unambiguity of the latest updated information about the food stores.

Business Logic Classes:

Control	Description
RateFoodStoreController	This control class allows the User to add a rating to a store's food quality, pricing, service, and ambience.
AddFoodStoreController	This control class is responsible for letting the Admin add a new instance of a food store along with the necessary information.
EditFoodStoreController	This control class lets the Admin provide new information about the food store to replace previous existing food store information.
SyncFoodStoreController	This control class is performed by the Server to sync data to ensure that information found in the web application is the same as found in the mobile and vice versa.
ViewFoodStoreController	This control class allows the both the User and the Admin to view food stores' available information.
SearchFoodStoreController	This control class can be performed by the User to search a food store from the list of existing food stores in the database.

Data Design Classes:

Class Name	Description
FoodStore	<p>FoodStore table contains information about a food store's id, name, location, cuisine type, current sum of all the ratings of the food store with the id, number of ratings in that food store, and its Sarrap rating (average rating of all ratings).</p> <p>This table is modified either when a developer (admin) updates a food store's information or when an anonymous user adds a rating to that store. When an anonymous user adds a rating to that store, the current sum of all ratings, number of ratings, and its SARAPP rating will change accordingly.</p>
User	<p>User table contains information about an anonymous user's id, date_stamp of posting rating, food quality rating, pricing rating, service rating, ambience rating, comment, and average rating.</p> <p>This table automatically records an anonymous user's rating of a food store.</p>
FoodStoreRating	<p>FoodStoreRating table contains records of store id's and the corresponding ratings to that store.</p> <p>This table automatically records the store_id of the rated food store and the user_id of the rating whenever a rating is submitted by the user.</p>