CSP584 Final Project - Grocery Hub

Team 11:

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Overview:

The Web Application Grocery Hub helps the Users to buy groceries on a daily, weekly, or as-needed basis for Home Delivery or in-store pickup. The users can view the nearest five stores from their location and select the respective store to buy their groceries. The Application supports trending Realtime features of Latest, Top Sold and Top-Rated Products.

Requirements:

1) A Customer must be able to Create an Account, login and view all the products at nearby 5 different stores.

2)The Customers can see the Stock of Items in the Store, they can write a Review for a Product and also View the past Reviews of all the products.

3)The Customer must then be able to add a product to his cart and proceed to checkout page.

4)The Customer will enter his/her billing details like name, email, credit card number etc., in the checkout page and finally place the order.

5) The Customer can see his/her Order History and is also shown a variety of Recommended Products based on their Ratings.

6)The Customer is also shown different number of Matching Tweets and their respective products.

7)The Customer can also ask any Queries in the Contact Us section, and the Admin can view all the queries and respond to them accordingly.

8)The Admin can create 5 Store Manager Accounts and also perform various actions like Add, Update, Delete products from different Stores.

9)The Admin can also View the Following Analytics Related to the Products at Every Store:

a)Stock of all Products at Every Store

b)Sales by Product and totals sales in a day with their respective charts.

c)Heat Maps for the following 5 features:

1)Reviews at every store location.

2)Transaction at every store location.

3)Total Number of Disliked(Rating<3) products

4)Total Number of Liked(Rating>=3) products

5)Total Number of Store Pickups.

d)Feedback of all Customers

e)Reviews of all the Products

10)All the five Store Manager/s can view the following features:

a)Order History of all the orders placed at his/her store.

b)Add, Update & Delete Products from their respective store/s.

c)Charts for the Stock of Products and Sales by the Respective product category.

Tools and Technologies Used:

Tools:

Sublime Text, Notepad++, MySQL Workbench, MongoDB Compass, Neo4j Desktop, Anaconda Navigator, Jupyter Notebook.

Technologies:

Front End :

HTML, CSS, Bootstrap, Font Awesome, JavaScript, Ajax, JSP, jQuery,

jQuery Plugins - owl carousel, slicknav, nice-select, validation

Google Maps JavaScript API, Twitter API

Backend:

Java 14.0.2, Servlets

Server:

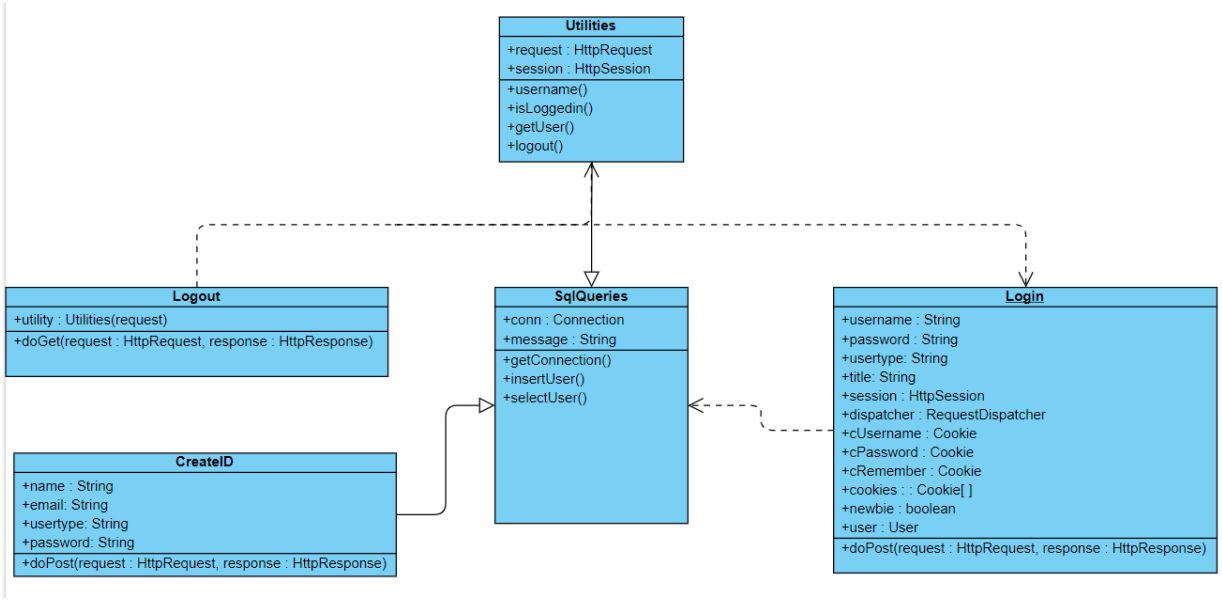
Apache Tomcat 9.0

Databases:

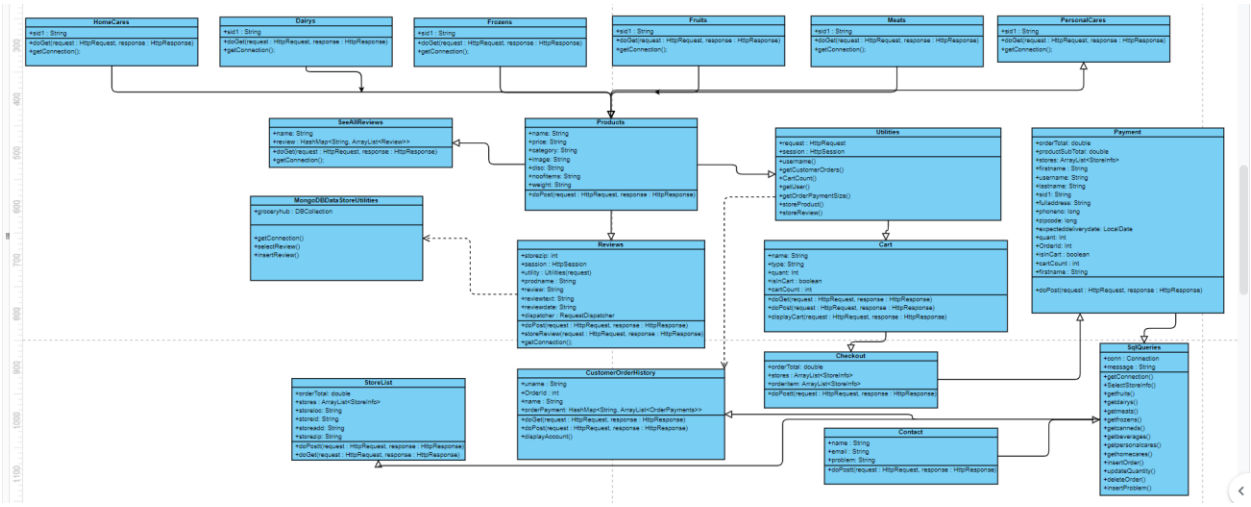
MySQL, Mongo DB, Neo4j

Class Diagrams:

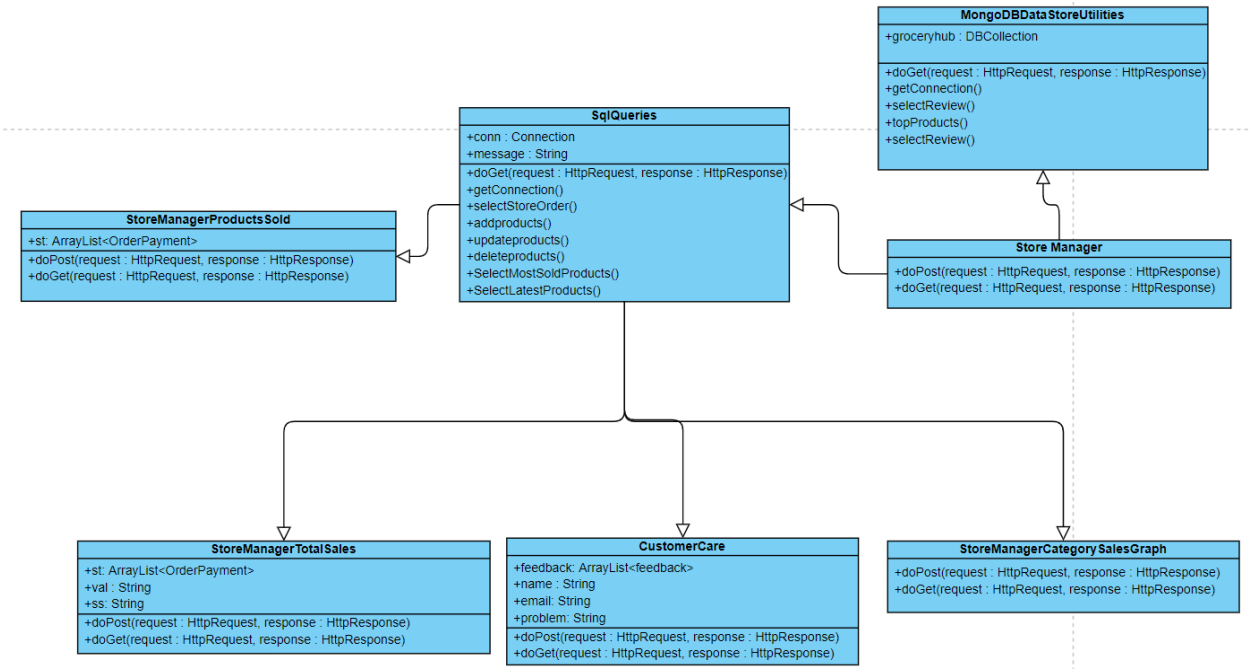
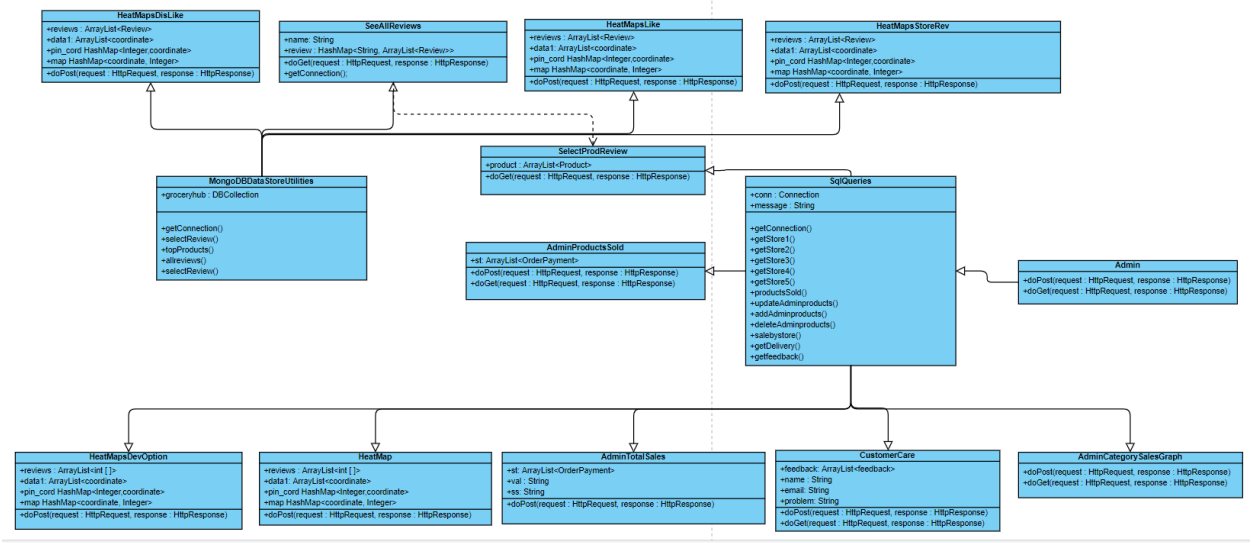
Login-Logout:



Customer:



Store Manager:



Admin: