Team 24
Project: Food Basket
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How to compile/install/run the Project

1) **MySQL:**
   - Start MySQL server: mysql.server start

   - Create a database called “food_basket” using:
     - create database food_basket;
     - use food_basket;

   - Create “users” table:

```
CREATE TABLE users (
        name varchar(255) NOT NULL,
        username varchar(255) NOT NULL,
        password varchar(255) DEFAULT NULL,
        role varchar(50) DEFAULT NULL,
        PRIMARY KEY (username)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

   - Create “restaurants” table:

```
CREATE TABLE restaurants (
        id varchar(40) NOT NULL,
        name varchar(255) NOT NULL,
        tagline varchar(255) NOT NULL,
        time varchar(255) DEFAULT NULL,
        expensiveMeter varchar(50) DEFAULT NULL,
        minimumAmount float DEFAULT NULL,
        image varchar(50) DEFAULT NULL,
        deliveryFee float DEFAULT NULL,
        zipcode varchar(50) DEFAULT NULL,
        PRIMARY KEY (id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

   - Create “menu_items” table:

```
CREATE TABLE menu_items (
```

```
    menu_item_id varchar(40) NOT NULL,
    menu_item_name varchar(40) NOT NULL,
    menu_item_rest_id varchar(40) NOT NULL,
    menu_item_ingredients varchar(255) DEFAULT NULL,
    menu_item_image varchar(50) NOT NULL,
    menu_item_price float DEFAULT NULL,
    similar_menu_items varchar(100) NOT NULL,
    menu_item_sale tinyint(1) DEFAULT NULL,
    menu_item_quantity int(11) DEFAULT NULL,
    PRIMARY KEY (menu_item_id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

- Create “orders” table:

```
CREATE TABLE orders (
    id int(11) NOT NULL AUTO_INCREMENT,
    order_id varchar(255) NOT NULL,
    cust_user_name varchar(50) NOT NULL,
    cust_address_line1 varchar(255) NOT NULL,
    cust_address_line2 varchar(255) NOT NULL,
    cust_address_city varchar(50) NOT NULL,
    cust_address_state varchar(50) NOT NULL,
    cust_address_country varchar(50) NOT NULL,
    cust_zip_code varchar(10) NOT NULL,
    order_delivery_date varchar(100) NOT NULL,
    order_status varchar(50) NOT NULL,
    order_date varchar(255) NOT NULL,
    order_item_price float NOT NULL,
    order_item_quantity int(11) NOT NULL,
    order_item_id varchar(50) NOT NULL,
    order_item_total_price float NOT NULL,
    restaurantid varchar(50) DEFAULT NULL,
    isDiscountApplied tinyint(1) DEFAULT '0',
    PRIMARY KEY (id)
) ENGINE=InnoDB AUTO_INCREMENT=114 DEFAULT CHARSET=utf8;
```

- Create table “payment_details”:

```
CREATE TABLE payment_details (
    username varchar(50) NOT NULL DEFAULT '',
    cardnumber int(11) DEFAULT NULL,
    month int(11) DEFAULT NULL,
    year int(11) DEFAULT NULL,
    PRIMARY KEY (username)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

- Create table “restaurant_vendors”:

```
CREATE TABLE restaurant_vendors (
        vendor_username varchar(100) DEFAULT NULL,
        vendor_password varchar(100) DEFAULT NULL,
        vendor_restaurant_id varchar(40) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

- Create table “comments”:

```
CREATE TABLE comments (
        comment_id int(11) NOT NULL AUTO_INCREMENT,
        comment_feedback_id int(11) NOT NULL,
        comment_text varchar(500) NOT NULL,
        comment_user_name varchar(20) NOT NULL,
        PRIMARY KEY (comment_id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

- Create table “feedbacks”:

```
CREATE TABLE feedbacks (
        feedback_id int(11) NOT NULL AUTO_INCREMENT,
        feedback_text varchar(500) NOT NULL,
        feedback_customer_username varchar(50) NOT NULL,
        PRIMARY KEY (feedback_id)
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8;
```

- MySQL Credentials:

  Open file EWA-Project/WEB-INF/classes/MySQLDataStoreUtilities.java

  Update dbUsername and dbPassword with your credentials:

```
import java.io.*;

public class MySQLDataStoreUtilities {

    public static Connection conn = null;

    private static String port = "3306";
    private static String dbUrl = "jdbc:mysql://localhost:";
    private static String dbUsername = "root";
    private static String dbPassword = "";
    private static String dbName = "food_basket";
    private static String useSSL = "useSSL=false";
```

2) Mongodb:

- Start mongodb server by typing “mongod” in the terminal.
- Create database called “food_basket” using:

  use food_basket;
- Create document collection “restaurantReviews” using:

  db.createCollection("restaurantReviews");

3)Servlet:

- Copy EWA-Project folder inside “/apache-tomcat-7.0.34/webapps”
- Start tomcat from installed location using: ./startup.sh
- Go to location in your browser: http://localhost:80/EWA-Project/

4)Regenerate Twitter Data for Deal Matches:

- Start jupyter notebook using: jupyter notebook
- Run “TwitterDeals.ipynb” which is under EWA-Project folder from Jupyter Notebook.

5) Lines of code written:

- Java code - 4911 LOC
  - File with maximum LOC - *MySQLDataStoreUtilities.java* (932 LOC)
- Java Script code - 279 LOC
  - File with maximum LOC - *datavisualization.js* (190 LOC)
- Html - 4888 LOC
  - File with maximum LOC - *cart.html* (491 LOC)
- Total - 10,078 LOC

Note:

- Restaurants are retrieved by zip code, You can find restaurants if you search with the following:
  - Zip code beginning with 406 followed by any two digits. Ex: 40616
  - Zip code beginning with 506 followed by any two digits. Ex: 50616
  - Zip code beginning with 606 followed by any two digits. Ex: 60616

- You can order from only one restaurant in one order, that is you cannot club food items across restaurants in a single order.

- Compiled Classes and Source Code both are placed inside EWA-Project/WEB-INF/classes Folder