**WRITEUP : FOODBOX**

**Project and Developer Details :-**

This project aims to design and develop an E-commerce website that lets people shop food items of different cuisines at affordable prices and deliver the products to their addresses. It was developed using Angular and Spring boot It was created as the Capstone Project for the Full Stack Java Developer course

**Tasks in FOODBOX :-**

1. Create database and tables.

Database :- foodbox

Tables :- There are 4 tables

* Users
* Products
* Cuisine
* Address

1. Add some rows and metadata to the tables
2. Create a Spring Boot project for the Back-End side.
3. Create REST APIs with spring Data JPA Repositories.
4. Create desired DAO methods for the Back-End side
5. Create a new Angular project for the Front-End side.
6. Create login and register pages and components.
7. Add cache to the login user
8. Logout user and remove cache
9. Show all products to the home page.
10. Show all products as cards.
11. Create a product details component.
12. Search a product by a category.
13. Search a product by a keyword.
14. Add products pages
15. Filter by page number
16. Sort product by different options
17. Add products to the cart.
18. Update total price in the cart status.
19. Show the payment gate and review the list
20. Add and remove products from the review list
21. Update the total price in the payment gate
22. Create the admin view
23. Update/Remove a product for the admin
24. Add a new product for the admin
25. Update the CSS design
26. Add bootstrap and font awesome to the components.
27. Debug and test the project.

**Deployment to AWS :-**

1. Upload your Project to Github.
2. Create t2.micro instance for master.
3. Create t2.micro instance for slave.
4. Connect the two instances Master and Slave to the system.
5. Create pipeline project on Jenkins.
6. Now create a jenkins file.
7. Next generate SSH Key for github.
8. Now build the pipeline project.
9. Deploy the project.

**GITHUB Repository :-**

<https://github.com/sbrahaspati21/Foodbox-Capstone-Project.git>

**AWS Website Link :-**

<http://ec2-15-185-146-219.me-south-1.compute.amazonaws.com/>

**Sprints :-**

| **Sprints** | **Tasks** |
| --- | --- |
| Sprint 1 | * Create database and tables. * Add some rows and metadata to the tables * Initialize a Spring Boot project for the Back-End side. * Create REST APIs with spring Data JPA Repositories. * Create desired DAO methods for the Back-End side * Create a new Angular project for the Front-End side. * Create login and register pages and components. * Add cache to the login user * Logout user and remove cache |
| Sprint 2 | * Show all products to the home page. * Show all products as cards. * Create a product details component. * Search a product by a category. * Search a product by a keyword. * Add products pages * Filter by page number * Sort product by different options * Add products to the cart. * Update total price in the cart status. |
| Sprint 3 | * Show the payment gate and review the list * Add and remove products from the review list * Update the total price in the payment gate * Create the admin view * Update/Remove a product for the admin * Add a new product for the admin |
| Sprint 4 | * Update the CSS design * Add bootstrap and font awesome to the components. * Debug and test the project. * Upload project to GitHub. * Create a t3.medium instance for master. * Create a t3.micro instance for slave. * Connect the two instances to the system * Create a Pipeline project on Jenkins. * Create a Jenkins file. * Generate a SSH key for GitHub. * Build the pipeline project. * Debug problems * Deploy the project |

**Steps to run Program on Local Machine :-**

* Clone project
  + clone git : git clone

<https://github.com/sbrahaspati21/Foodbox-Capstone-Project.git>

* Import the “\Back-End\foodbox\database\foodbox.sql” file to your database administration tool.
* Go to “\Back-End\foodbox\src\main\resources\application.properties” file, open it.
* Edit some values of the database’ properties to be suit to your database administration tool.
* Run the back-end project as a maven project:
  + cd to your project “Back-end\foodbox”
  + mvn compile
  + mvn exec:java -Dexec.mainClass=com.simplilearn.foodbox
* Open another command line for the front-end part.
* cd to your project “Front-end-end\foodbox”
* install the following:
  + npm install --save-dev
  + npm install @angular/localize --save
  + npm install bootstrap --save
  + npm install font-awesome –save
  + Run using ng serve –open
  + It would be displayed in <http://localhost:4200/>