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**Project Details:**

The project is to design and develop an E-commerce website that lets people shop for food items of different cuisines at affordable prices and deliver the products to their addresses. It was developed using Angular and Spring boot.

**Sprints and Tasks:**

This project has been split into 8 different sprints including the deployment of the product to the client. All the sprints are listed below as combination of complete project.

1.Create database and tables. 2. Add some rows and metadata to the tables 3. Initialize a Spring Boot project for the Back-End side. 4. Create REST APIs with spring Data JPA Repositories. 5. Create desired DAO methods for the Back-End side 6. Create a new Angular project for the Front-End side. 7. Create login and register pages and components. 8. Add cache to the login user 9. Logout user and remove cache 10. Show all products to the home page. 11. Show all products as cards. 12. Create a product details component. 13. Search a product by a category. 14. Search a product by a keyword. 15. Add products pages 16. Filter by page number 17. Sort product by different options 18. Add products to the cart. 19. Update total price in the cart status. 20. Show the payment gate and review the list 21. Add and remove products from the review list 22. Update the total price in the payment gate 23. Create the admin view 24. Update/Remove a product for the admin 25. Add a new product for the admin 26. Update the CSS design 27. Add bootstrap and font awesome to the components. 28. Debug and test the project.

**Technologies and Tools:**

• **Angular**: used on the front-end side to build modern single-page applications

• **Spring Boot**: used on the back-end side to create the REST API and retrieve data from a database.

• **Apache**: to use it as a web server.

• **HTML/CSS**: to create and format the content of the pages.

• **Bootstrap**: to use some CSS and JavaScript designs.

• **Maven**: to manage the project.

• **Visual Studio Code**: to write and run the Angular code.

• **Eclipse**: to write and run the Spring Boot code.

• **MySQL**: to use it as a database management system.

**Concepts:**

**• Object-Oriented:** used to create and model objects for users and their credentials.

• **REST API**: used to communicate between the back-end and the front-end sides.

• **Data Access Object**: to abstract and encapsulate all access to the data source.

• **Object–Relational Mapping**: to map the objects to the database.

• **Databases**: used to store and retrieve data.

• **Data Sources:** used to define a set of properties required to identify and access the database.

• **Collections**: used some collections such as ArrayList to store the collection of data.

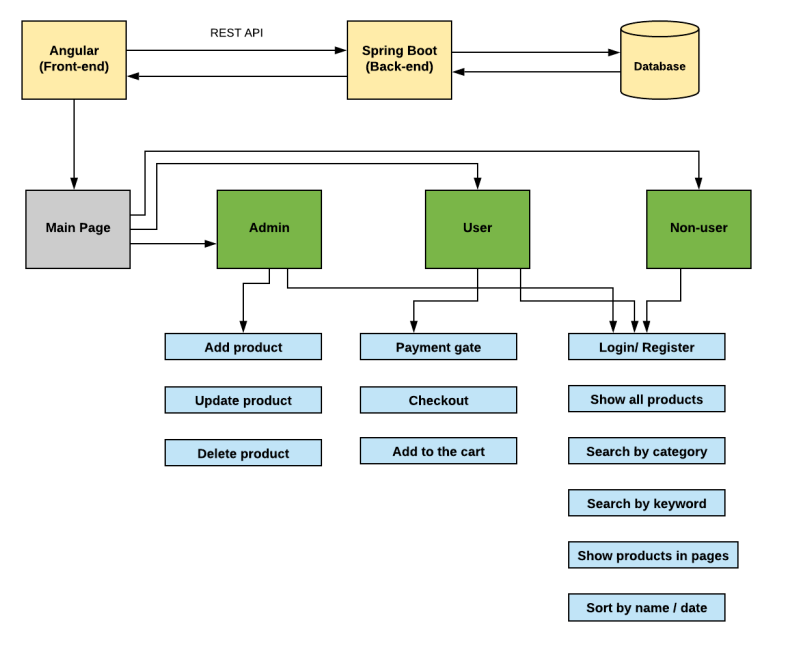
• **Deployment**: to deploy the local project to the end-users.

• **Virtual Machine**: use virtual instances to help to build, deploy and manage websites.

• **Exception Handling**: used to catch problems that arise in the code, especially in I/O blocks.

• **Single Web Page**: apply the concept of a website that only contains one HTML page.

**Flowchart:**

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