IT-314 Software Engineering

E-Commerce

Project Detail Document 1

Project Name: E-Commerce

Team Members:

- **Team 20:**

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Date: *25-03-2022*

Version Number: *01*

Start Date: *28-02-2022*

End Date: *13-05-2022*

The objective of the project:

This project aims to create an E-Commerce website that can make B2C and B2B connections most efficiently. Customers can buy various products of their choice, and any business company can sell their products.

The given E-Commerce website mainly focuses on providing a suitable and easy-to-use platform for small businesses for marketing purposes.

Functionalities:

Points mentioned below describe different functionalities for the E-Commerce website named **Dream-Kart**.

Sign-Up: If users (can be an individual or a business entity) register for the first time, they have to sign-up. Users can sign-up using a Google account, Contact number or create a new account using a separate user name and password. Companies can Sign-Up using their company tagged account.

Log-In: Registered users can log in every time they visit. Without signing in, users can surf through the website but won't be able to make any purchase.

Log-out: If the users want to log out, they can log out from the account. Users logging out from their can again log in whenever they want.

Account-Deletion: Users can permanently delete their account anytime they want.

View-Only mode: Users surfing through the website without logging in are using the view-only method of the website. This will help increase the website traffic since many users hesitate to sign-up.

Type-of-users: Dream-Kart bifurcates users into different types like customers, sellers, workers.

Home-Page: After logging in, users will land on the homepage. The homepage includes many things such as recommendations for the users, categorised products, different offers.

Search bar: On the top of the website, there will be a search bar that users can use to search for other products or shops.

Advertisement carousel: The top-selling products will be shown on the floating carousel on the home page.

Categories: Dream-Kart will list all the products of the same category together and display the product category on the homepage.

Profile-Page: The profile page shows the personal information of the users. Users can change the details anytime they want.

User-Details: The profile page includes a user name or company name, home/office address for user personnel, shop/inventory address for business companies, the email-id/contact no./username.

Kart-Wishlist: Dream-Kart provides a kart where users can add the products they want to buy, And also provides a wishlist section where users can add products.

Product-Page: Once the user taps on any product, that user will land on that product's page. The product page includes all the information about the product.

Payment methods: Dream-Kart provides payment methods such as cash-on-delivery and online payment like debit/credit cards and UPI payment.

Order-Confirmation and tracking: Users will receive payment invoice details after making the payment, and users will also be able to track the products they have bought.

Customer-Review: Dream-Kart provides a customer review section for each product where users can give reviews based on their product experience.

Customer-Care: A customer care number, Gmail id is provided, which the users can use for resolving their queries.

Project Deliverables:

- **Milestone (with immediate milestones at two weeks)**
    - 25-03-2022 to 07-04-2022: Full authentication/Login page and raw homepage with a search bar.
    - 09-04-2022 to 22-04-2022: Complete homepage, user account, the addition of products kart, wishlist.
    - 22-04-2022 to 29-04-2022: Filter search, payment page setup, feedback setup with some final touchup.

Estimated Total Time:

Activity	**Hours**
Research and requirement gathering	6
Consulting historical data	4
Determining the requirements	5
Design and development	20-25
Testing and error fixing	7-8
Product release	2
Approximate total hours	**40-45**

H/W and S/W requirements:

- PC/Laptop/Mobile or any other device with internet browser
- Active internet connection (Ethernet/LAN/WAN)

Minimum	Recommended
RAM 512MB	2 GB
Processor Speed 750 MHz	1.5 GHz
Processor Type (PC) Pentium	Intel i3
Processor type (Mobile) Android 5	Android 7

Technology/Architecture

- UML tools and techniques
- HTML, CSS, bootstrap and javascript
- Database modelling tools
- React and Node JS
- MongoDB
- Postman API
- Git and Github

Standards to be followed throughout the project

- Variables and functions name should follow camel case convention.
- Class name must begin with a capital letter.
- Any file and code should be written with well-maintained comments to make it easy to be kept track of.
- All the utility functions should have their file.