Documentation: Group 3

Shop-Hub

Milestones:

1. Home Page

Description:

      The home page is created which will be displayed as soon as someone visits the site. The home page is divided into various sections. In the header part, on the left side, the user can see logo of website and the name of the website is displayed in the middle of the header. In the navigation section, first we have navigation links for the product categories, about the website, login button, logout button and the cart symbol which displays the count of the items present in the cart. On selecting the Login button, the user is redirected to the Login page. If the user does not have an account, he is redirected to the registration page from the login page. Validation operation is carried out in these pages. A database containing the user details is created and is mapped with the project using annotations. This database is used in the validation for checking if the user exists or not. In the middle of body part, we categorized the products and display their images based on the offers. The footer will consist of the various information that will be helpful to the user.

Stories:

- Header Section- Company Logo and the Company name will be displayed.
- Navigation Section- Home button, Product Categories button, About Us, Login Button and Logout Button. On clicking the Home button, it is redirected to the Home Page. On clicking the Product Categories, it shows various categories with in the product and redirects to the particular page. On clicking the About Us button, it shows the information related to the website.

- Login page – In this page, we have Username and Password, Submit button where the user can login to the website. The Username and Password will be checked with one present in the database. If it matches with the database then the user is allowed to buy the product else the user will be redirected to the registration page. It has forgot Password or Username link where the user is allowed to change password. It has signup button to create a new account.
- Registration Page: Accepting User name, email id, Phone Number, Password, Confirm password. Followed by Validation against input requirements, stored in database. Two validations are carried out – one to check if the password and confirm password data match or not and second to check if the input data is according to the requirements set. The user is the redirected to the home page as a logged in use.

2. Shopping Products:

Description:

The user can search for the products based on the categories. Here it has product image, price of the product and brand. When the user clicks on the product, user gets the detail description, add to cart button and buy button. If user want to buy the product, it will redirect to the login page.

Stories:

- Retrieve multiple product categories and redirect to login page.

3. Booking Product:

Description:

The user adds the product, it stores in cart. The products added will be displayed in cart with the total amount. If the user want to book the product, it will redirect to login page. If the user is logged in it shows confirm page where the user

specify the address, confirm phone number and confirm button to book the product. Later it shows alert message for successful booking.

Stories:

- Accepting Booking Detail like adding address and confirming products.

4. Database

Description- Oracle Database is a RDBMS database is used to store User details, Product details, Categories, Order details, Payment details. This database will provide the backend support to our shophub web application. This will be at backend side, which will be connected to the Servlet which will further connect to the shophub client UI. This will help to manipulate all data and provides CRUD operations.

Tables-

- **User-** user tables contains all the user related information like name, contact, password and so on.
  This table manipulate all user details and provide CRUD operation related to user. This table is also connected to the product table, order table and payment table to keep track of all the users.
- **Product-** product table contains all product details and this is connected to categories table.
- **Categories-** This table maintain all categories of product. It will help to differentiate product based on the categories and user can easily search required product.
- **Order-** This table will handle all the orders placed by the user. It will keep all records of order details.
- **Payment-** This table stores all payment details of product which is added by the user to the cart.

5. Java

- **Interfaces-**

    IShopHub- Add(), remove(), read(),update()

    IProduct- add(), read(), remove()

- **Classes-**

1. User - to take user details and manipulate user data

2. Product implements Iproduct- CRUD opreation related to   product.

3. Order- place order and remove order. Connected to the payment class.

4. Payment – all payment related services. Total amount of all added product.

- **ConnectionFactory-**

    gives connection to the database.
- DAOUtility
- UserDAO
- ProductDAO