E-COMMERCE WEB APPLICATION

LAB ASSIGNMENT 1

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Lab ID: 16

Introduction

We created a multi-page responsive website of e-commerce web application using Flask and python. We built the web application with complete feature set as per the requirement. The intuitive responsiveness and able to easily maneuver features inside the web application are main takeovers in this assignment. Bootstrap elements and CSS styling are included in the code for improving the responsiveness to the user.

Objectives

The main objective of this lab assignment is to know the working nature of Bootstrap to build responsive websites. The e-commerce web application consists of multiple pages within it to access the list of things by customer. Below are some achieved objectives in this assignment,

- Created user account details page where user can be able to register as a new user or he/she can directly access the web application if they are an existing user.
- User can be able to navigate between the recent orders and past orders.
- Details of products with price and type they belong to.
- Javascript and SQL database is used for verification and storing of user details.
- Multi page responsive website with CSS styling elements.

Approaches/Methods

We've followed different approaches in building a good responsive e-commerce website for users. The basic user interface is designed using HTML5 and styling elements are used for navigating between the multiple pages inside the web application. Scripting language such as javascript is implemented for validating and verifying user details for accessing the website. User validation is done by local storage method of HTML5 where user details are stored and authenticated for future login process. Bootstrap is used for building multi responsive page where resizing the window might not affect the application user interface anything at all.

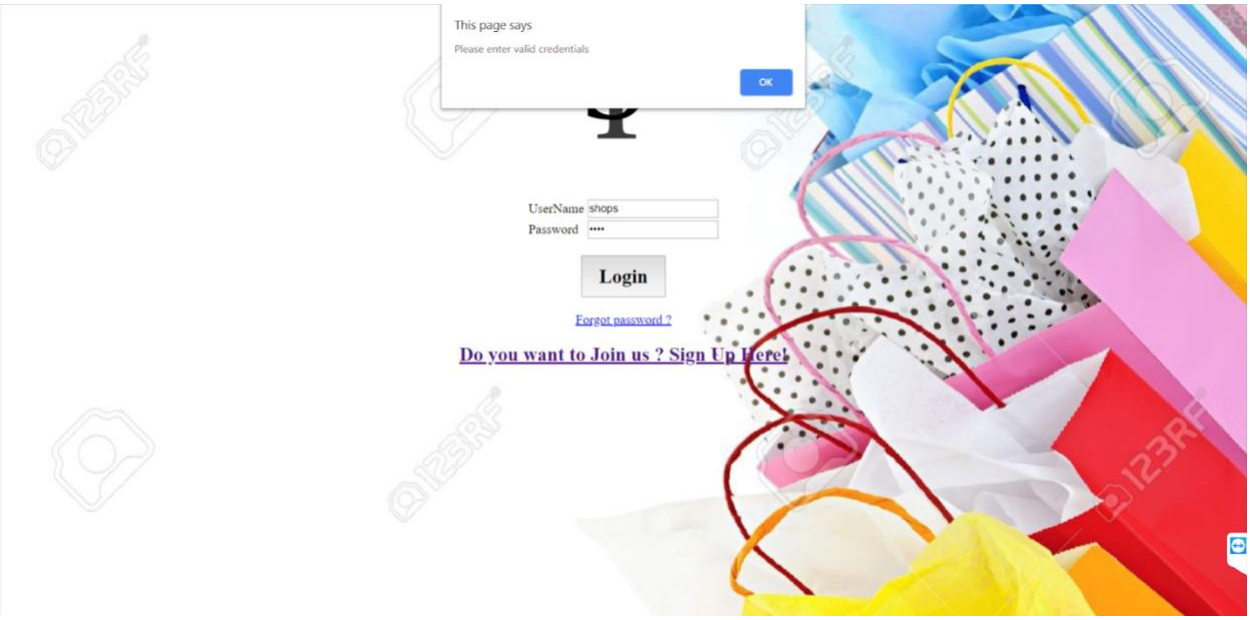
Workflow

Below are some of the screenshots of the workflow of e-commerce web application,

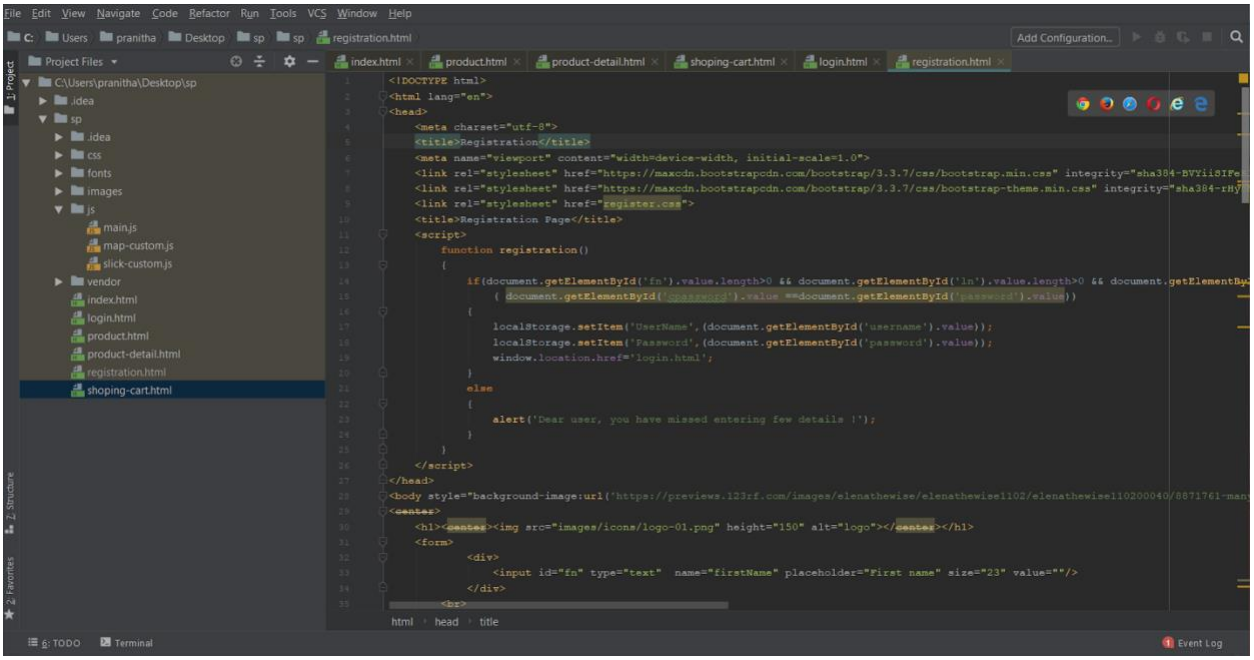
Login Page

Registration Page

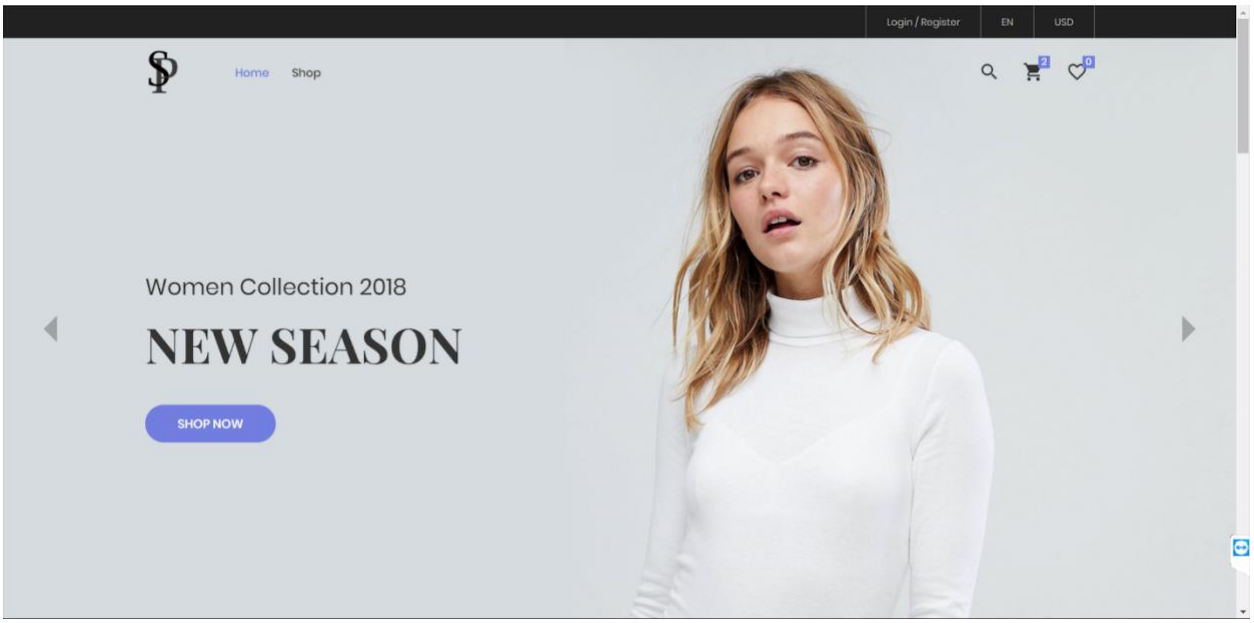
Local Storage Error



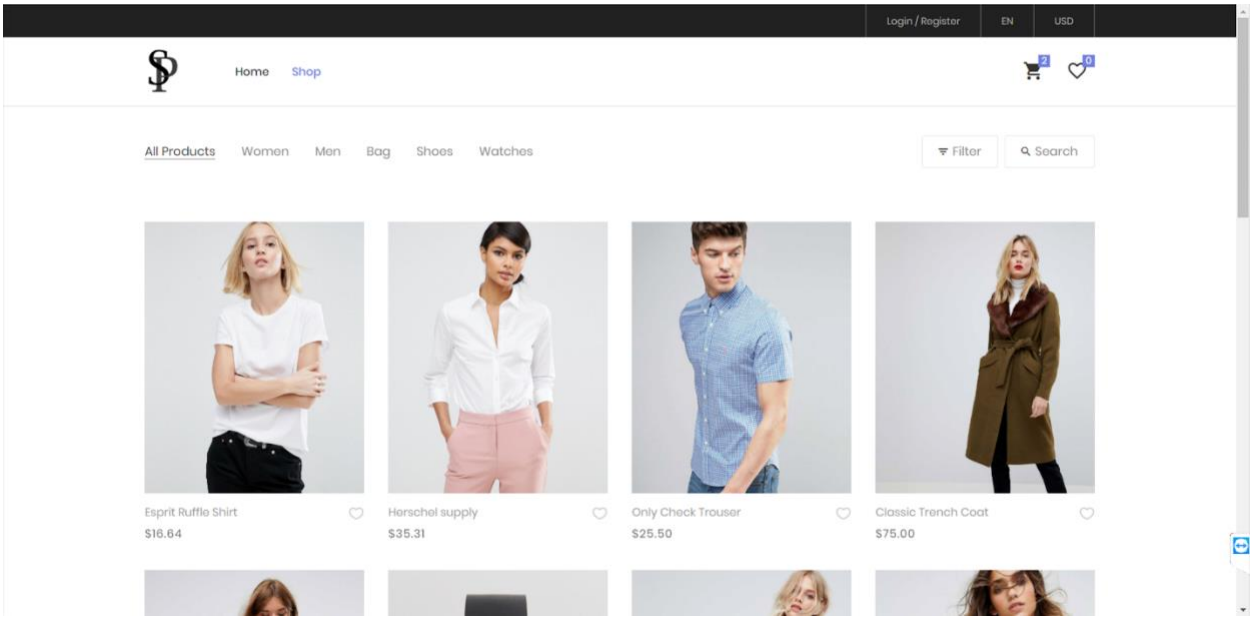
Local Storage Code



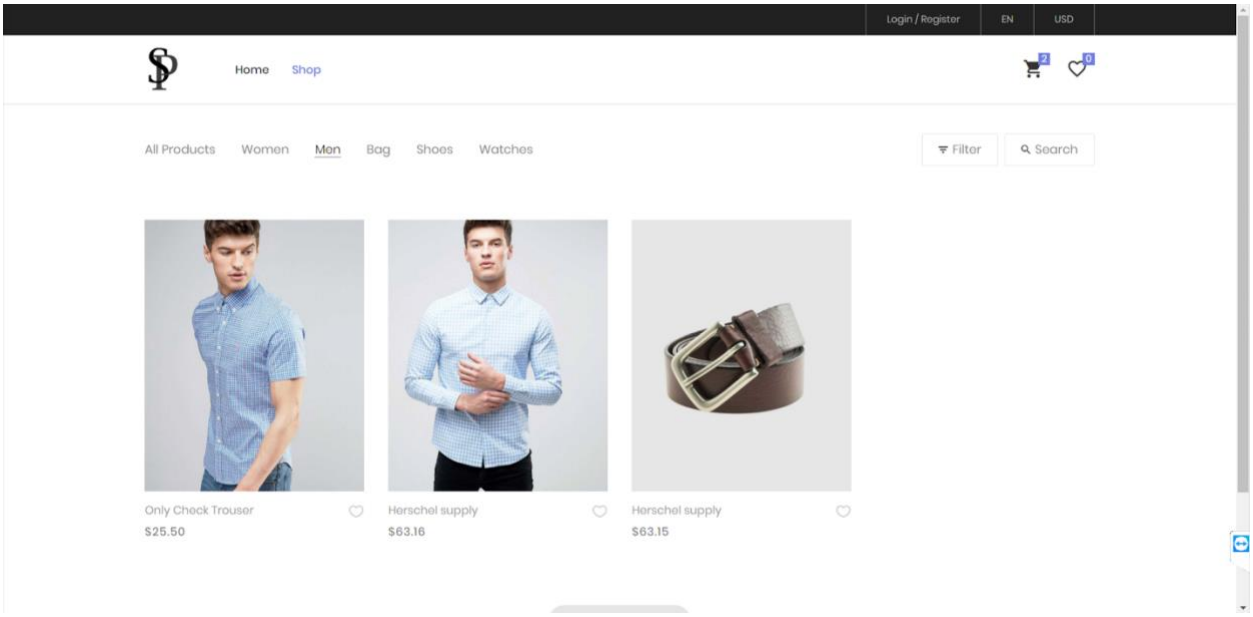
Home Page



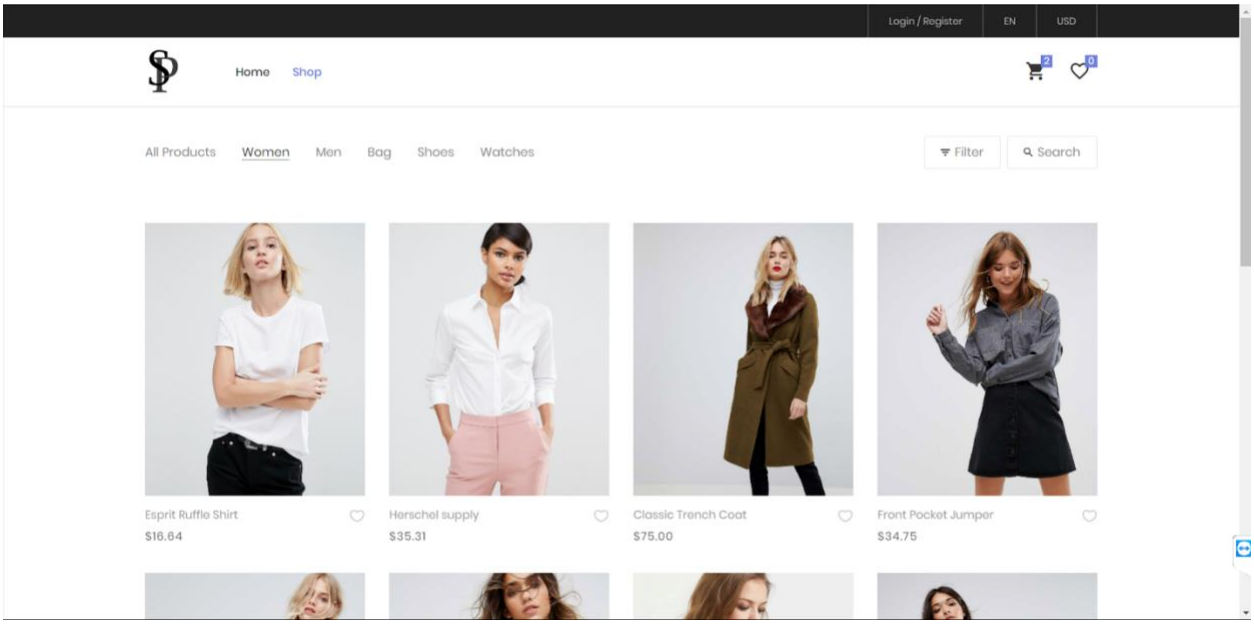
All Products Page



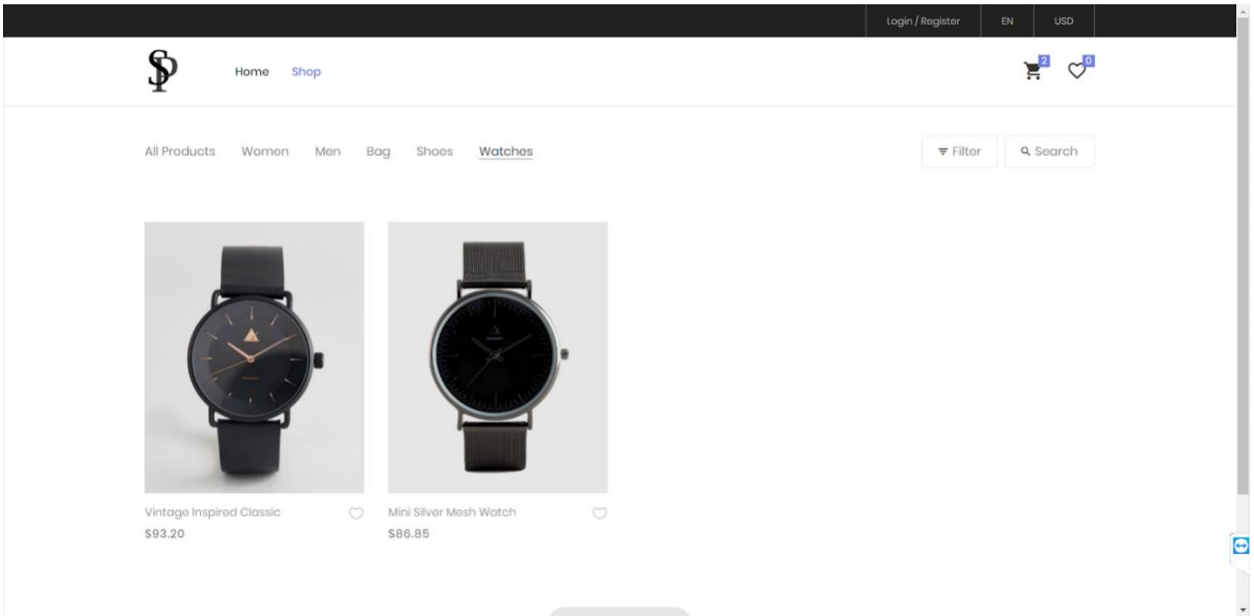
Men Page



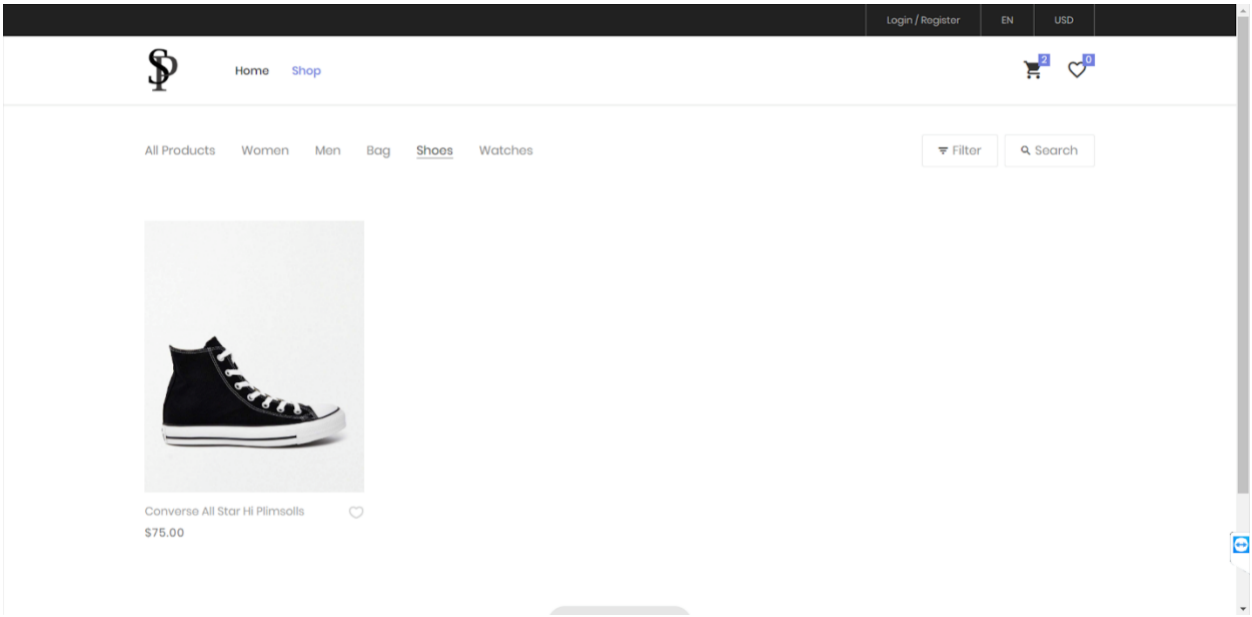
Women Page



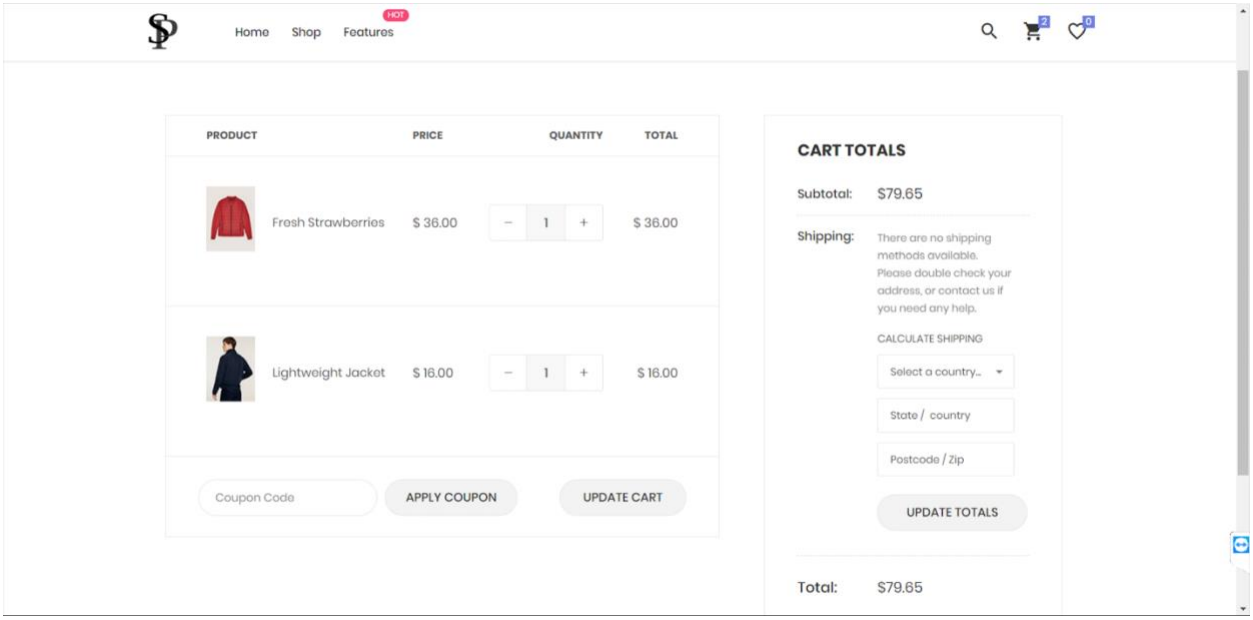
Watches Page



Shoes Page



Checkout Page



The workflow is explained in the below link,

https://youtu.be/1unGqB7KIVQ

Discussion

The e-commerce web application can be accessed using Google Chrome and Mozilla Firefox by user. New user must register for accessing the features of e-commerce web application. If user is already registered, then he/she can directly login to the page using login.html. The user credentials are authenticated using local storage function of HTML5 and validated using Javascript methods.

Once user successfully login, user is redirected to home page of e-commerce web application where he/she can start navigating between the pages and the workflow. The user interface is designed using HTML5, bootstrap methods and styled using CSS elements. Home page consists of 4 sections,

- Men's
- Women's
- Watches
- Shoes

He/she can navigate through windows using the tab and purchase following items or adding them to cart in their account. User can add the list of items to cart and place an order using orders page. The images and webpages are completely multi responsive and build in a such way that they are accessible in any view mode by user. Thus, user can be able to completely access features of web application easily and complete his/her shopping in the e-commerce web application.

Conclusion

A multi responsive e-commerce web application is build using Bootstrap and HTML5 successfully by end of this lab assignment. Here are some references taken for completion of assignment,

- http://getbootstrap.com
- https://www.w3schools.com/js/
- https://www.html5rocks.com/en/