SHOP SMARTER WEBSITE

<u>SYNOPSIS</u>

Department of Computer Science & Application

Institute of Engineering & Technology

SUBMITTED TO: -   SUBMITTED BY: -

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DECLARATION

We, the undersigned members declare that the group project submitted is our original work, and that we have acknowledged all the sources used in its preparation in accordance with the guidelines provided. We affirm that this project has not been submitted elsewhere for any other purpose, and that it does not infringe on the intellectual property rights of any third party.

We also certify that all the information provided in this project is true and accurate to the best of our knowledge. We understand that any misrepresentation or falsification of information may result in the rejection of our submission or the revocation of any award or recognition that may be conferred upon us.

By submitting this project, we agree to abide by all the rules and regulations governing here.

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ACKNOWLEDGEMENT

We have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. I would like to extend my sincere thanks to all of them.

We are highly indebted to Mr. **Abhishek Kumar** for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project.

We would like to express my gratitude towards my team member as well as my mentor of GLA UNIVERSITY for their kind co-operation and encouragement which help me in completion of this project.

We would like to express my special gratitude and thanks to industry persons for giving me such attention and time.

My thanks and appreciations also go to my colleague in developing the project and people who have willingly helped me out with their abilities.

Certificate of Completion

This is to certify that We have successfully completed the project synopsis on a Product Comparator System Using Web Scraping. We demonstrated a high level of knowledge, creativity, and innovation in the field of web development.

The project involved the design and development of a web platform that enables users to show the multiple products with different costs so that they can buy that product on cheaper rate. I work hardly and sincerely to complete the project within the given time frame and to the satisfaction of the project supervisor.

We demonstrated excellent communication, collaboration, and problem-solving skills, which were essential for thesuccessful completion of the project.

We hope that the knowledge and experience gained from thisproject will help me to excel in their future endeavours. I wish him all the best in his future endeavours.

Date: Sign.

INDEX

INTRODUCTION

As we all love to find things of our choice but due to high cost some time we couldn't buy them so this platform help us to compare product from different website and the variation of prices at different platforms and it will give you a choice to buy a product on cheaper cost other than casual price. Now a days people are taking interest to buy things online but sometime the things they wanted to buy is having higher price which they cannot afford. So, we have tried our best to make a website "Shop Smarter Website by Using Web Scraping " in which people can visit our website and by searching the product of their choice they can find the product in variable price range and also they can buy them as per their budget and even more things of their requirement on a reasonable price.

About this Project

This web application is basically used to solve a major problem of every people. In this project we help users to find better products on Reasonable price.

We have to Scrap the data from multiple websites using their Api's and shows the product as per the users requirement on our website so that user can compare the products from different websites and where he/she found the product of their choice on reasonable price they can buy that product. I have created a beautiful UI in which we provide you a search box where you can fill the product of your requirement and see the variation in prices and you can buy them.

To ensure the security and privacy of user data, the platform was designed with a comprehensive user authentication and authorization system. Users can sign up and log in securely using their email and password on this website and they can also buy the product of their choice from that website by simply clicking on that particular product.

Primary Reason To Choose This Project

The primary reason for choosing this project of developing Shop Smarter Website is to help users so that they can buy the product and save the extra money which they are paying to the third party and also providing them the facility to buy products of their choice in their budget.

In today's digital era, online shopping has become a vital part of our daily lives. However, most online shopping platforms focuses on selling their products but no one cares about the users budget. By using this platform user can choose the products of their choices as per the budget they have and they can also benefit themselves in online shopping platform by purchasing products with different price options.

The project also provided an opportunity for the me to explore and implement modern web development technologies such as Angular JS and MongoDB. Angular JS is a popular JavaScript Framework used for building user interfaces, while MongoDB is a NoSQL database used for storing and managing large volumes of data. By using these modern technologies, I was able to design and develop a responsive, scalable, and user-friendly platform that caters to the needs of users across different devices and platforms.

Overall, the primary reason for choosing this project was to provide a unique and innovative platform that help users to shop online and get products in reasonable prices, while also exploring and implementing modern web development technologies.

MAIN OBJECTIVE

The main objective of choosing this project is to help users to buy products on reasonable prices by fetching data from different .

The primary reason for choosing this project of developing Shop Smarter Website is to help users so that they can buy the product and save the extra money which they are paying to the third party and also providing them the facility to buy products of their choice in their budget.

Another objective of the project was to ensure the security and privacy of user data. The platform was designed with a comprehensive user authentication and authorization system, which allows users to sign up and log in securely using their email and password of their accounts.

Overall, the main objective of choosing this project was to provide a unique and innovative web platform that encourages creativity, self-expression, and skill-sharing among users, while also ensuring the security and privacy of user data.

SCOPE OF THE PROJECT

The scope of the project of developing a Product Comparator platform to help users to find the products of their choice and provide them different options to buy a product in a variable price range.

The scope of the project included the following aspects:

1. User Interface Design: The platform was designed to provide a user-friendly and interactive interface. The design included creating a visually appealing and responsive website layout that caters to the needs of users across different devices and platforms.
2. User Authentication and Authorization: The platform was designed with a comprehensive user authentication and authorization system, which enables users to sign up and log in securely using their email and password or their social media accounts.
3. Product Choice Page : This page provide different options of product that a user can search.
4. Product Comparator Page: This will help the users to write the product of their choice in search box and fetch the data according to the users requirement and show it to the page.
5. Database Management: The platform was built using MongoDB, a NoSQL database used for storing and managing large volumes of data.
6. Deployment: The platform was deployed on a web server, making it accessible to users across different locations and devices.

Overall, the scope of the project involved designing and developing a unique and innovative Comparator System that encourages creativity, self-expression, and skill-sharing

among users, while also ensuring the security and privacy of user data.

HARDWARE & SOFTWARE REQUIREMENT

Hardware Requirements:

1. Processor: Intel Core i5 or higher
2. RAM: 8GB or higher
3. Storage: 256GB or higher
4. Internet Connection: High-speed internet connection
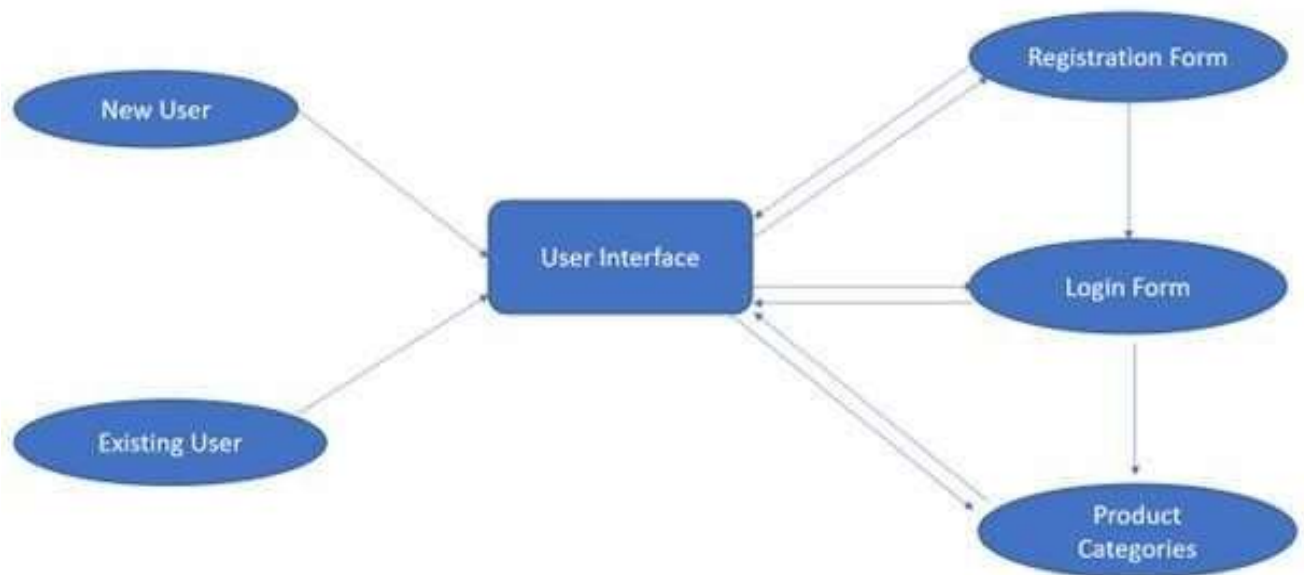
Software Requirements:

1. Operating System: Windows 10 or macOS High Sierra or later
2. Integrated Development Environment (IDE): Visual Studio Code or any other suitable IDE for React JS development
3. Node.js: The latest stable version of Node.js and npm package manager
4. MongoDB: The latest stable version of MongoDB database management system
5. Git: The latest stable version of Git version control system
6. Web Browser: Google Chrome or any other modern web browser

In addition to the above requirements, developers may also need to use additional libraries, frameworks, and tools depending on the project's requirements and complexity. It is recommended to use the latest versions of all the required software to ensure compatibility and stability.

MODULE

1. User Authentication: This module handles user registration, login, and logout functionalities. It also manages user authentication and authorization, ensuring that only authenticated users can access specific features of the platform.
2. User Profile: This module allows users to create and manage their profiles.
3. Product Choice Page: This page provide different options of product that a user can search.
4. Product Comparator Module: This module receive users query and fetch the data according to the users requirement and show it to the users.
5. Administration: This module enables administrators to manage the platform and also check the number of users visiting on the platform on daily basis. Administrators can also configure platform settings, such as security policies and user roles.

DATA FLOW DIAGRAMS

REFERENCES

Websites:

- W3Schools (https://www.w3schools.com/)
- MDN Web Docs (https://developer.mozilla.org/en-US/docs/Web)
- Stack Overflow (https://stackoverflow.com/) ☐ GitHub (https://github.com/)