PES UNIVERSITY

Department of Computer Science & Engineering

UE17CS355 – Web Tech II Laboratory

Project Evaluation

Project Title : E-Commerce Website

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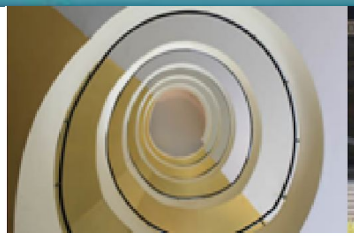




Project Description

The Project that we have made is an E-Commerce Shopping website which lets the user buy electronic goods. Everyone mainly buys products through a shopping website. E-Commerce websites have boomed since the formation of flipkart which was one of the first of its kind.

The Website which we have made is a simulation of Amazon and E-Bay combined. The site consists of a shopping website and also consists of a blog/forum where users can post reviews about the electronics that they have bought. In the Shopping website, a User can add products for sale as well as purchase the products which other Users have put for sale. Hence, there is an improved functionality.

The Forums/Blog part of the Website is the place where users can post reviews or describe the products which they have bought. It can help other users decide if the product which they want to buy is good or not based on the reviews/posts which other users have put up.

Technologies Used

NodeJS:

Node JS is an open source, cross-platform, Javascript runtime environment that executes Javascript code outside of a web browser. Node.js eliminates waiting and simply continues with the next request. Node.js runs single threaded, non-blocking, asynchronous programming, which is very memory efficient.

Express:

Express.js, or Express, is a web application framework for Node.js.

ReactJS:

React is used to create interactive UIs. Design simple views for each state in the application. React will efficiently update and render just the right components when your data changes. Declarative views make the code easier to debug.

Technologies Used

EJS:

EJS is a simple templating language that lets you generate HTML markup with plain JavaScript. There is no religiousness of how to organize things. No reinvention of iteration and control-flow.

MongoDB:

MongoDB is a general purpose, document-based, distributed database built for modern application developers and for the cloud era. It stores its data in JSON-like documents.

Techniques Implemented

Multi-Stage Download:

The most basic functionality is loaded onto the page initially. The page then begins to download other components that should appear on the page. An advantage is the developer gets to decide what is downloaded and at what point in time. When the page is first loaded, it is a very simple page with minimal content and a series of requests is fired off to fill in more content.

Rest API:

Rest API's is mainly used to delete, add and edit the reviews/posts made by the user in the Forums part of the website. Rest API's are stateless protocols which is used for representational state transfer.

Data Analytics:

Integration with Stripe JS for Real Time Payments and Vendor Specific Analysis. We have implemented Graphs for showing expenditure and earnings.

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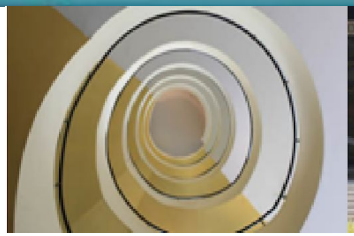

Thank You