Review And Rating Restaurant using Full Stack Web Development

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Abstract

When a person is new to the place and there are so many restaurants, it creates confusion and it may become a problem to find the restaurants of their choice. Unknowingly going to a restaurant may cost them with less quality and poor service. To overcome this issue, we came up with an idea of Restaurant Reviews and Ratings. Restaurant review and rating is a platform between customer and restaurants which allows users to choose their preferred restaurants. It is a user-friendly platform, as it contains reviews and rating from the users including individual posts and comments.

Keywords: Full Stack Web Development, Node Js, Mongo Db, Express Js

1.Introdction

The present review system of a restaurant typically involves customers sharing their experiences and opinions about the quality of food, service, ambiance, and overall experience on various online platforms such as Yelp, Google Reviews, TripAdvisor, and others. These reviews often include a rating system ranging from one to five stars, with one being the lowest and five being the highest. The impact of the review system on a restaurant can be significant. Positive reviews can attract new customers and increase the restaurant's revenue, while negative reviews can drive customers away and harm the restaurant's reputation. Additionally, the review system can provide valuable feedback to the restaurant's management, allowing them to identify areas for improvement and make necessary changes.

Many restaurants actively monitor their reviews and respond to customer feedback to demonstrate their commitment to customer satisfaction. Some restaurants even incentivize customers to leave positive reviews by offering discounts or other perks. Overall, the review system of a restaurant has become an essential tool for both customers and restaurants in the digital age, allowing for transparency and accountability in the dining experience.

For the review system we are developing a full stack web development. Moreover, recent technological advances we are unable to get the review for each and every food item perfectly we are getting the restaurant reviews only instead of food reviews.

In this situation full stack web development helps because it can create a friendly environment to review each and every food item in a restaurant.

1.1 Full Stack Web Development

Full-stack web development refers to the process of building a web application from the front-end to the back-end, covering all the technologies and layers involved in the development process. In other words, a full-stack developer is responsible for designing, developing, and maintaining the entire web application, including the user interface, server-side logic, database, and other necessary components.

Here are the technologies involved in full-stack web development:

1. Front-end development: This involves creating the user interface and user experience of the application using HTML, CSS, and JavaScript. Front-end frameworks such as React, Angular, and Vue are also used to create complex web applications.
2. Back-end development: This involves building the server-side of the application that handles the business logic, application programming interface (API) integrations, and database interactions. Common back-end languages include Java, Python, Ruby, and PHP.
3. Database development: This involves designing and building the database structure that stores and manages the application's data. Popular databases include MySQL, MongoDB, and PostgreSQL.
4. Server management: This involves setting up and maintaining the web server that hosts the application. This can include server administration, deployment, and security.
5. DevOps: This involves managing the development, testing, and deployment processes using tools like Git, Jenkins, and Docker.

Full-stack web development is a highly sought-after skill in the tech industry, as it enables developers to build complex web applications from start to finish. It requires a deep understanding of multiple technologies and programming languages, as well as the ability to work collaboratively with other developers, designers, and stakeholders.

1.2 Project Definition

Reviews can be vague and lack context, making it difficult to understand the reasons behind a particular rating or review. This can make it difficult for users to determine if a particular review is relevant to their needs. The standards for reviews can vary widely between different users, and some may have different expectations for what constitutes a good restaurant experience. This can lead to inconsistencies in the reviews. While Google has a large user base, there may be some restaurants that have few or no reviews, making it difficult for users to determine their quality. Our goal is to create a web application that allows users to review restaurants and each food item.

1.3 Project Features

- We can know where the food is good previously
- And we can see the Menu of each restaurant
- User can see the updates posted by a restaurant like any special day offers etc.
- We can rate our food

2. Literature Survey

S.NO	TITLE	AUTHOR	METHODOLOGY	DRAWBACKS
1	A big data influences on the helpfulness of online reviews	Stephanie Meek, Violetta Wilk, Claire Lambert	Concurrent Triangulation	Research across other platforms and countries is necessary, to assist with determining the generalisability of the results
2	Helpfulness of online Restaurant Reviews using Machine Learning Algorithms	Yi Luo Xiaowei Xu	Naïve Bayes + Support Vector Machine	the proposed helpfulness prediction approach might not be applicable to predict helpfulness of restaurant reviews written in other languages
3	Impact of Online Food Delivery apps and its Reviews	Dr. Mitali Gupta	Machine Learning	Price,limitedmenu,preparation,quality of food may be suffer,food may be cold,the vibe restaurant is missing,wrapping up.
4	Identifying Satisfiers and dissatisfiers: Suggestions from Online Reviews	A Bilgihan, S Seo, J Choi	Data Mining	some may be giving fake reviews, if the users are more then it will be difficult to find the satisfiers and dissatisfiers

5	Online Reviews: Expectation-Confirmation Theory	J Lee, YK Kim	Expectation Confirmation Theory	Investors should be aware that the expectations theory is not always a reliable tool.

3.Proposed Methodology

In this we are overcoming the existing system with some additional features. We came up with a website that can provide the best services for a customer. In this system a customer can see the review about food items individually easily. The customer can post the food picture and give rating to it and can comment for it also. The customer can easily see and read the food items rating and comments and get the best food to eat. The customer can give review for other person posts also and comment on it. It provides an easy way to get best food and get the best satisfaction of its service.

3.1.1 Technologies Used

Html: HTML, in full hypertext markup language, a formatting system for displaying material retrieved over the Internet. Each retrieval unit is known as a Web page (from World Wide Web), and such pages frequently contain hypertext links that allow related pages to be retrieved.

CSS: CSS is the acronym of "Cascading Style Sheets". CSS is a computer language for laying out and structuring web pages (HTML or XML). This language contains coding elements and is composed of these "cascading style sheets" which are equally called CSS files

JavaScript: JavaScript is a scripting language that enables you to create dynamically updating content, control multimedia, animate images, and pretty much everything else. It is a text-based, lightweight, cross-platform, and interpreted scripting programming language. This language is very popular for developing web pages. It can be used both on the client-side and server-side.

Node.js: Node.js is an open source, cross-platform runtime environment and library that is used for running web applications outside the client's browser. It is used for server-side programming, and primarily deployed for non-blocking, event-driven servers, such as traditional web sites and back-end API services, but was originally designed with real-time, push-based architectures in mind.

Express: Express is a node js web application framework that provides broad features for building web and mobile applications. It is used to build a single page, multipage, and hybrid web application. It's a layer built on the top of the Node js that helps manage servers and routes.

EJS: EJS (Embedded JavaScript Templating) is one of the most popular template engines for JavaScript. As the name suggests, it lets us embed JavaScript code in a template language

that is then used to generate HTML. In this article, I will walk you through a detailed guide to templating your Node application with EJS.

MongoDB: MongoDB is a document database used to build highly available and scalable internet applications. With its flexible schema approach, it's popular with development teams using agile methodologies.

Steps of Implementation

Step1: Resources are downloaded and collected.

Step2: Creation of Models for the Database.

Step3: For CRUD operations we create the Controllers.

Step4: Developing of the Routes.
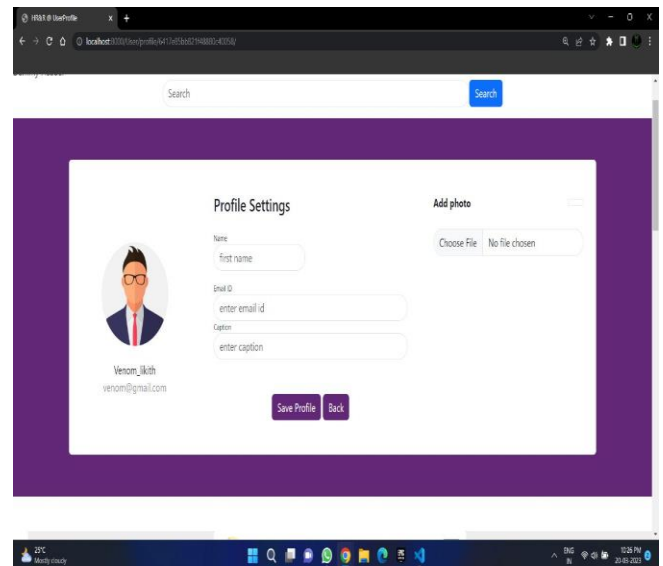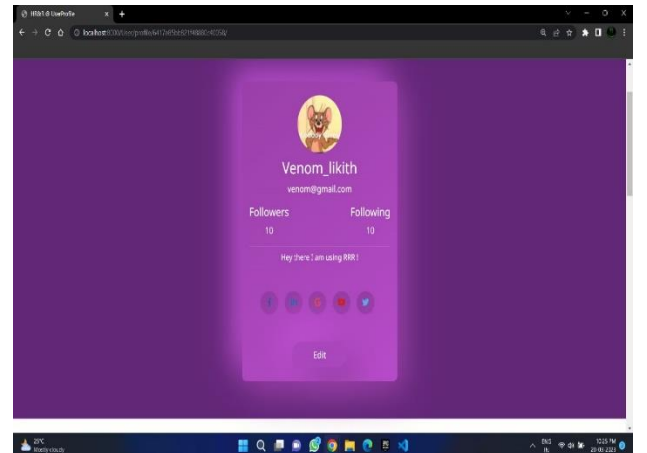
Step5: Basic Front end is created.

Step6: Styling is done with CSS.

Step7: Deploying the project.

Step8: We are going to link the project to a domain.

4. RESULT

• We can know where the food is good previously

• And we can see the Menu of each restaurant

• User can see the updates posted by a restaurant like any special day offers etc.

• We can rate our food

5.CONCLUSION

Hence, we have created a website that can be used to review each food item in a restaurant and we will be able to do individual posts in the website and can give rating to it.

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