Mini Project Report On

Startup Hub

for the course

IT254 : Web Technology and Applications

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ABSTRACT

Every huge company out there has started out on a small scale. A major role is played by the investment. Any innovative idea needs a proper sum of money to be implemented. A single person cannot start any company. The budding entrepreneur needs the support of various people to help out the company to grow. Often, enthusiastic budding entrepreneurs give up on their idea due to lack of investment. On the other hand, earning members of the society grow interested in investing in companies that have future scope and some investors desire to invest based on the idea. The problem lies in lack of communication between the two ends. Resources out there do not provide a unified platform for solving this problem. An organised approach has been developed through our project where we successfully built a simple demonstration of how users and startups can be connected efficiently. This resolves the time consuming, extremely exhausting task of searching for investors all over the internet. It makes it easy for the users to find startups they are interested in investing on.

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Introduction

Any startup requires a huge investment. Without the right amount of funds, the entrepreneurs cannot succeed in building a company out of their innovative idea. Also, searching for investments involves surfing the net for hours going from one source to another including websites, contact numbers and resources. Finding a suitable investor can be a cumbersome, time-consuming task, and can de-motivate the entrepreneurs. To tackle this problem, we show a list of user details willing to hold a share in the startup. The users can view a list of startups for investing. By using this approach, we give a much organised way of finding what's desired by the start up.

Also, people want to give their contribution to the start up and also enjoy a share of the profit according to their contribution to the start up. Both the ends have a benefitting situation. A particular person can contribute to as many startups as they want. Startups can have several share buyers. This creates a many to many relationship. We are trying to implement a small scale example through our project.

Requirements Analysis

The following dependencies need to be installed before the code can be run.

Handlebars
Express
Body-parser
Express-handlebars
Mongoose

For the basic web page layout: HTML, CSS
For the frontend framework: Express, Handlebars
For the database: MongoDB

System Design

This project is built on MVC architecture.

Model

The Model component corresponds to all the data-related logic that the user works with. This can represent either the data that is being transferred between the View and Controller components or any other business logic-related data. In the db.js file, we provided a connection to MongoDB. In the model.js file, defining and validation of components have been done.

View

The View component is used for all the UI logic of the application. View folder contains files with the layout of the three pages: homepage, sign up /login page and the table display page. It also contains a file for styling the three mentioned pages.

Controller

Controllers act as an interface between Model and View components to process all the business logic and incoming requests, manipulate data using the Model component and interact with the Views to render the final output.Express route has been used to render, route and handle validation/errors.
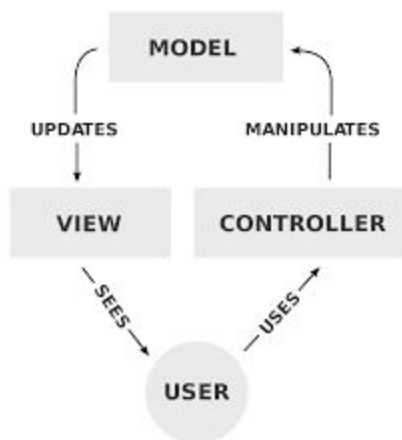

Fig 1. MVC architecture

Methodology

1. We have used handlebars to template the frontend and express as a framework for the frontend.
2. For the database, MongoDB has been used.
3. A homepage is opened which gives an option to login/ sign up according to the type of user.
4. By selecting the type of user, data is stored in two databases to separate the details of the two.
5. After logging in, one type of user can view the details of another user.
6. With the help of an express router, we provide functionalities of rendering, routing and also provide the handling of validation and errors.

Implementation

Results & Analysis

The website provides the following functionalities:

1. A user friendly front page with a button to get started.
2. Get started provides two options: Shareholders and Startups.
3. A login page
4. A sign up page
5. Login/ Sign up stores details in a database
6. Validation and Error Handling

Conclusion

We successfully developed a hub to store investors and start up details using a sign up page. We achieved error handling and validation of the entered fields. Validation with the database has also been implemented. Through this project we had hands-on experience with express and handlebars which helped in building the framework of the webpage.