

ABSTRACT

We've had some tough times where we desperately need help and didn't know where to seek or whom to ask. In this modern era, there are millions of people who voluntarily like to give hands to support others. Thankfully, this digital era has made that possible. With the boom of social media, giving and seeking support during life-challenging moments has become quite easy. Also, we see some people misusing this and can see plenty of cyber thefts and fraudulent activities. Many helping hands have been reduced due to many unauthenticated WhatsApp & social media message forwards. Sometimes, this also leads to a lack of support for the people who genuinely need help. This is an easy-to-use online tool to give and seek support during life-challenging moments. It is an interactive web application between the recipient who seeks support and the helper who gives support. The recipient can post the requirements and details will be posted only after thorough verification. The helper can give support and if he/she finds that particular post/story needs immediate attention, they can vote for it for a better reach. The recipient will be able to update the status of the story so that fellow users can keep track of this. There are a lot of features like that on this application that is user-friendly. We've used MEAN stack technology for developing this application.

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CHAPTER 1

INTRODUCTION

1.1 OUTLINE OF THE PROJECT

In this digital world, crowdfunding is being practiced via the internet. We already have plenty of crowdfunding platforms that help to raise funds for the needed cause. These platforms offer financial help for any organization, individuals, etc. In this proposed system, we are building an interactive web application where recipients can post the requirements and the story will be posted only after a complete authorization. This helps to avoid fraudulent activities. The helper can give support based on the requirements. Many crowdfunding platforms only satisfy financial needs but this application can be used for any purposes like food for an organization, blood donation, etc. This platform conglomerates all the needs and help in one place. MEAN STACK web development is the main technology used for developing web application. MEAN stack is a user-friendly full stack javascript technology for building modern dynamic websites and applications. MEAN stack is comprised of 4 different technologies namely Express.js, Angular, MongoDB, and Node.js. This Technology allows creating a simple open-source solution, building strong and maintainable solutions, and also helps in developing an application on a rapid basis. MEAN stack uses javascript in all the front-end and back-end works which is 100% free. We've used socket IO technology for real-time interactions between the recipient and the helper. In recent times, the demand for using cloud platforms are increasing rapidly. Many companies and organizations have started using cloud platforms to store and access data information. We've used MongoDB cloud database for the application and also used AWS S3 storage services for storing the user's data such as images, videos, documents, etc

1.2 PURPOSE OF THE PROJECT

Helping and supporting others when they are in need of support is the first step in making this world a better place. We've had some tough times where we desperately need help and didn't know where to seek or whom to ask. In this modern era, there are millions of people who voluntarily like to give hands to support others. Those days are gone where we have to join non-profit organizations and physically present on the weekend to help others in any kind of support. Nowadays, we are just one click away to support others sitting from our home or anywhere in this world. Thankfully, this digital era has made that possible. Crowdfunding is the go-to option for anyone with a cause who needs support financially. Crowdfunding is the way of raising funds for any cause by collecting less amount of money from more people.

1.3 EXISTING SYSTEM

We already have crowdfunding platforms that help for raising funds for the needed cause. These platforms offer financial help for patients in India. Anyone can share the requirements posted by a recipient on different social media for a better reach. Real-time funds raised are transparently visible to everyone. Helpers can send their wishes and support to the recipient through the comment section of the page.

1.4 PROPOSED SYSTEM

Our proposed system is built upon the MEAN stack and brings it to the real world as an application. It will be a platform for everyone to help each other. We already have client-side crowd funding-supported systems for raising funds for the needed cause. Those platforms offer financial help for patients in India. This proposed system is expanded its boundary to also support various aspects like blood donation, food for organizations, guidance for pursuing dreams, etc. This proposed system will prevent anonymous and fraudulent users by having a Signup/login as a first-step process to verify the new user before making them a part of the community and to ensure that users are authenticated before login. The post is a part of our system that describes the recipient's needs. To avoid false actions and cybercrime only authenticated recipients will be able to post

requirements after thorough verification of aadhar proof and documents submitted related to the requirements. The recipient can update the process on the post so that everyone can keep track of the situation. It has a voting feature for a better reach of the post across the community and features the comment section so that helpers can send their wishes and support to the recipient. In this proposed system, we enabled communication between users. The helpers can interact and show support directly with the recipients who posted the requirement through individual chat. We've used MongoDB cloud-based database to store a large number of data and also used AWS S3 storage services for storing the user's data such as images, videos, documents, etc.

CHAPTER 2

LITERATURE SURVEY

According to Vinay Ramappa, Doina Bein, 2018. An entire application can be built using MEAN STACK having JavaScript as a single language. They developed their application MusiqGlobe.fm using MEAN stack. It is an application where the users can create their playlist and listen to the songs. One of the drawbacks of this system is the uploaded files by the users are stored in local drives. [1]

According to Diotra Henriyan, Devie Pratama Subiyanti, 2017, communication between clients and servers can be achieved by using SOCKET IO. The communication and support for the Bandung and Indonesian people is the goal of this application. The limitation of the system is the usage of Mongo DB for smaller data but larger data requires a cloud-based database. [2]

According to Musu Bala Shuaibu, Ruqayyat Ahmad Ibrahim. 2017, opines that the unsuitable methodology could lead to damage to the confidentiality of the organization. Their proposed model achieved a 96 percent security level. [3]

According to Yuxiang Hou., 2017, says that the correct decision in the selection of framework will result in the development speed and performance of the system. Having said that, their model has a rapid development efficiency as an advantage and one of the drawbacks to concern is it is not programming language independent. [4]

According to Dr. Jay Kiruthika, Dr. Souheil Khadda. 2016, suggests some design criteria which can be used to develop a web application. The interactive experience of the user and their satisfaction are well said in this literature. UX and CX can be considered as one of the advantages of this system to bring contents that are user-centric. The disadvantage is the versatility and diversity of data shifts focus on user satisfaction. [5]

CHAPTER 3

METHODOLOGY

3.1 GENERAL OVERVIEW

We've used Angular for client-side development. It improves the user experience and is used for quick user request access. Two-way binding in angular helps the application by making changes both in view and model simultaneously. We've used node.js for the server-side. It is very quick for executing the code. Since our application request APIs for most of the operation, node.js is the most powerful tool because of the Asynchronous nature i.e. server will not wait for the API to return any data. It proceeds with the upcoming API call and some amazing features of Node.js assists the server for getting a response from the previous call. We have used MongoDB as a database management system. Generally, the database may slow down the whole system. Because of the change-friendly design of MongoDB new data are created without disturbing the other operations with no downtime. When it comes to performance we can't proceed without mentioning MongoDB powerful querying language MQL. It allowed us to go deep into data documents and perform complex querying with fewer lines of code. amazing features of angular were used for HTTP calls. Several methodologies are used for component interactions and for smooth front-end and back-end communication.

The architecture diagram is attached below:

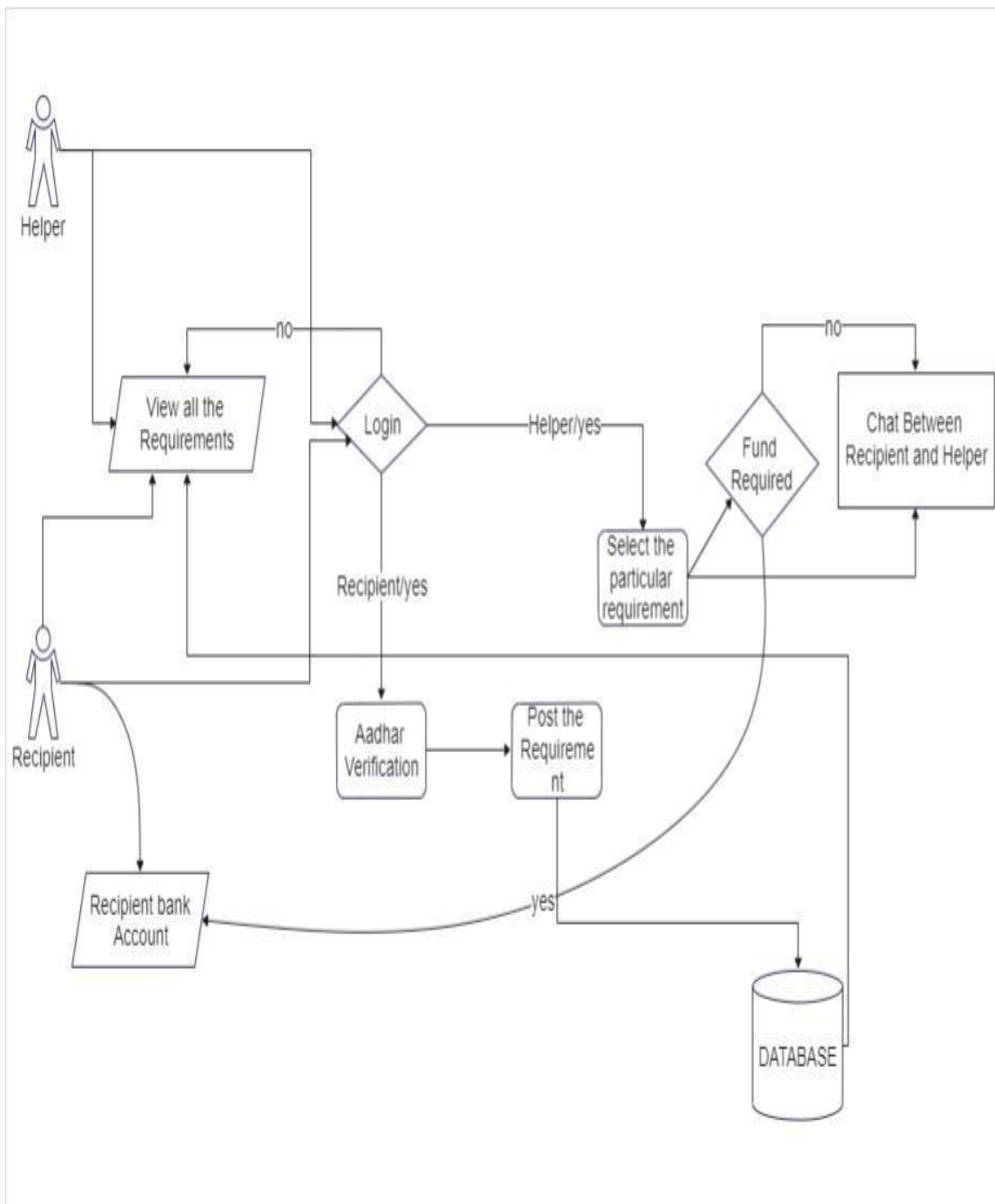


Fig 3.1 Architecture diagram

contain sets of documents and function which is the equivalent of relational database tables. MongoDB is a database which came into light around the mid-2000s.

MongoDB Features

1. Each database contains collections which in turn contains documents. Each document can be different with a varying number of fields. The size and content of each document can be different from each other.
2. The document structure is more in line with how developers construct their classes and objects in their respective programming languages. Developers will often say that their classes are not rows and columns but have a clear structure with key-value pairs.
3. The rows (or documents as called in MongoDB) doesn't need to have a schema defined beforehand. Instead, the fields can be created on the fly.
4. The data model available within MongoDB allows you to represent hierarchical relationships, to store arrays, and other more complex structures more easily.
5. Scalability – The MongoDB environments are very scalable. Companies across the world have defined clusters with some of them running 100+ nodes with around millions of documents within the database.

3.3.2 NODE JS

It is used for server-side programming, and primarily deployed for non-blocking, event-driven servers, such as traditional websites and back-end API services, but was originally designed with real-time, push-based architectures in mind. Every browser has its own version of a JS engine and node. Node.js is an open-source, cross-platform runtime environment for developing server-side and networking applications. Node.js applications are written in JavaScript and can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux. Node.js also provides a rich library of various JavaScript modules which simplifies the development of web applications using Node.js to a great extent. All APIs of the Node.js library are asynchronous, that is, non-blocking. It essentially means a Node.js-based server never waits for an API to return data. The server moves