

**“A non-addictive social media app”**

**ABSTRACT**

Most of the social media apps we use today are overwhelming and addictive which affects students' mental health. Nowadays free social media apps are not actually free, they use our data as their prime revenue to generate personalized ads which many people won't like as they feel insecure. And all the features are not available in a single social media. We have to use multiple social media for multiple purposes.

And here we are with our app Mediaverse which solves the above-mentioned problems. In this app, users can post images, share their thoughts, send or receive messages and many more just like any social media. But the difference is we are planning to provide a disappearing post/thoughts feature that helps users to avoid doom scrolling. We are also planning to include some of the unique features of most of the famous apps. This app doesn't use user data to generate personalized ads.

One of the most useful features for students and developers is discussion platforms like StackOverFlow, StackExchange, Quora, Brainly, etc. are not much focused on the famous social media apps that we are using today. We are here to solve this problem with our Discussion Forum where users can post their doubts and other users can help them with the answers.

The most liked feature in Snapchat is SnapMap which is not available in most of the famous apps. We are planning to build a modified version of that feature that helps users to track their followers and enables them to know the location of the users around them. These are some of the features of our app but we also planning to include more features. From this project, we hope to build a better, non-addictive, secured, and all-in-one social media app.

**TEAM MEMBERS**

* Dhev Sabarish – 2020103518
* Logeshwaran – 2020103538
* Velmurugan - 2020103585

**FEATURES OFFERED**

* Disappearing posts
* Trending posts based on Trending Hashtags
* Mapverse – Users Map
* Discussion forum
* Private chat and Global Chat

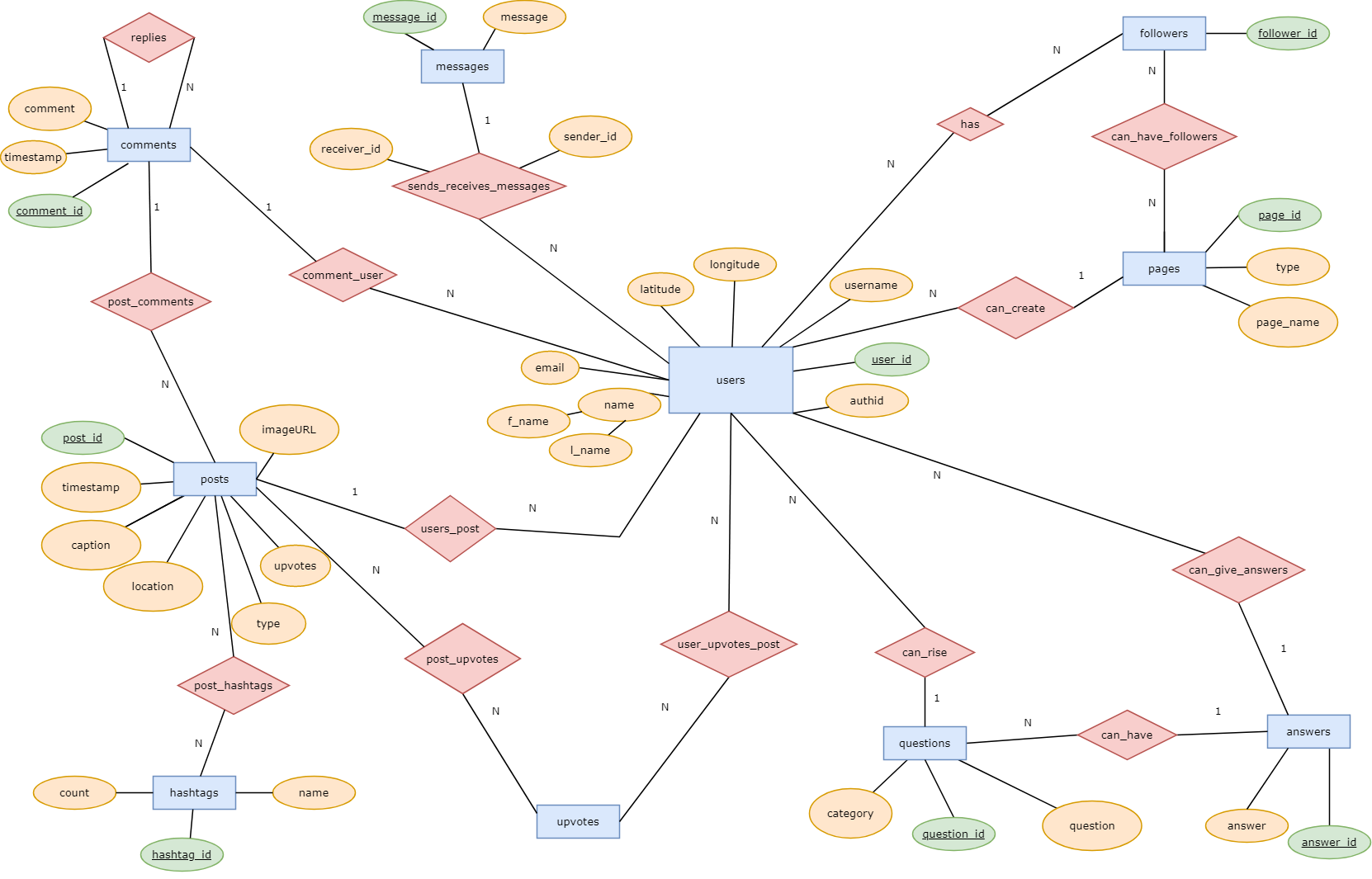
**TECH STACK USED**

**“MERN Stack”**

* **Frontend**
* React Native
* Expo
* Firebase Authentication
* Firestore database for chatting
* App will be published in Expo GO
* **Backend**
* Node JS – Runtime environment for JavaScript
* Express JS – Creating REST API’s
* MongoDB – NoSQL database ( cloud )
* Mongoose – provides abstraction over MongoDB
* Babel JS for transpiling JavaScript
* API will be deployed in HEROKU

**BACKEND OF THE APP**

Entity-Relationship diagram:



Since MongoDB is a NOSQL database we don’t table to store the data. It’s a document based database and it is capable of processing structured, semi-structured and unstructured data. So we need to define specific schemas for each collections.

In MongoDB,

* Set of Entities are called as **Collections**
* Each Entities are called as **Documents**.
* Documents can have attributes as key value pairs.

Schemas completed till now:

1. User Schema :

const userSchema = mongoose.Schema(

   {

      authid: { type: String, required: true }, *// comes from firebase*

      fname: String,

      lname: String,

      username: { type: String, required: true },

      email: String,

      latitude: Number,

      longitude: Number,

      profileImg: {

         type: String,

         default:'https://firebasestorage.googleapis.com/v0/b/socialapp-5e56c.appspot.com/o/avatar.png?alt=media&token=37bb52ed-61ed-4e00-88de-e9a5eb6ae2bb',

      },

      upvotedPosts: [{ type: mongoose.Types.ObjectId, ref: 'Posts' }],

   }

);

1. Post Schema:

const postSchema = mongoose.Schema(

   {

      userid: { type: mongoose.Types.ObjectId, ref: 'Users', required: true },

      type: { type: String, enum: ['text', 'image'], default: 'text' },

      upvotes: { type: Number, default: 0 },

      comments: [{ type: mongoose.Types.ObjectId, ref: 'Comments' }],

      caption: String,

      hashtags: [{ type: mongoose.Types.ObjectId, ref: 'Hashtags' }],

      imageURL: String,

      location: String,

   },

);

1. Follower Schema:

const FollowerSchema = new mongoose.Schema({

   userId: {

      type: mongoose.Schema.Types.ObjectId,

      ref: 'Users',

      required: true,

   },

   followerId: [

      {

         type: mongoose.Schema.Types.ObjectId,

         ref: 'Users',

         required: true,

      },

   ],

});

1. Hashtag Schema:

const HashtagSchema = mongoose.Schema({

      name: String,

      count: Number

});

1. Upvote Schema:

const UpvoteSchema = mongoose.Schema(

   {

      userid: { type: mongoose.Types.ObjectId, ref: 'Users', required: true },

      postid: { type: mongoose.Types.ObjectId, ref: 'Posts', required: true },

   }

);

1. Comment Schema:

const commentSchema = mongoose.Schema(

   {

      userid: { type: mongoose.Types.ObjectId, ref: 'Users' },

      comment: String,

      replies: [{ type: mongoose.Types.ObjectId, ref: 'Comments' }],

   }

);

Rest API routes completed till now:

/Users

* Get all users of the app
* Sign up
* Sign in
* Edit user details
* Delete a user

/Posts

* Get posts of an user
* Get a post by PostId
* Get Trending Posts based on Hashtags
* Get Global Trending Post
* Create new post
* Upvote/Downvote Post
* Delete a post

/Comments

* Get comments of a post
* Create a Comment on Post
* Create a reply on Comment
* Delete a comment on Post

/Follow

* Follow / Unfollow any user
* Get all followers of a user

**FRONTEND OF THE APP**

