CODE CONNECT

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(2020-2021)

New Horizon Institute of

Technology and Management

CERTIFICATE

This is to certify that the Mini Project entitled “CODE CONNECT” is a bonafide work of **“Reeti Sharma” (IEN No. 11912029)**, **“Harsh Karande” (IEN No. 11912017)**, and **“Pushkaraj Kulkarni” (IEN No. 11912027)** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of “Bachelor of Engineering” in “Computer Engineering”.

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Prof. Deepak Khachane

Guide

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Head of Department

Dr. Prashant D. Deshmukh

Principal

New Horizon Institute of Technology and Management

Project Report Approval for S.E.

This project report entitled *"**CODE CONNECT**"* by ***Reeti Sharma, Harsh Karande*** *and* ***Pushkaraj Kulkarni*** is approved for the ***Mini Project 1A*** in ***Computer Engineering 2020-21***.

Examiner Name Signature

1. _____

2. _____

Date

Place

Abstract

Various questions can occur to a student on a day to day basis. These doubts can be solved by someone who has already faced these issues. **Code Connect** provides easy and more accessible opportunities for all the computer department students to interact with each other. It helps students to interact and learn something new amid the crisis.

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Chapter 1.0

Introduction

Chapter 1.0 Introduction

Code Connect is a web application, ***made for students by students***. With its easy to use interface, interaction with other students is just a click away. Built on open source software's, Code Connect provides a fast and effortless path for upgradeability.

1.1 Objective

Code Connect expects to provide a common platform for students to interact online for institutional needs.

Students who are new to programming can discuss with seniors who have faced issues with the same.

1.2 Scope

- The scope of the project is the **computer department**.
- Users can **create** and **customize** their profiles according to their needs.
- Adding a programming **skillset** makes it easier for others to notice and correlate.
- Actions such as **like**, **dislike**, **comment**, and **follow** are open for all.
- Administrator specific actions like **announcements** are also accessible for specific individuals.
- Show your code from the open-source repositories with your **GitHub** username.

Chapter 2.0

Present Investigation

Chapter 2.0 Present Investigation

1.1 Problem Definition

Providing easier and more accessible educational opportunities to all the computer department students online.

1.2 Feasibility Analysis

Code Connect is completely built on ***open source***, which means it is completely free to use and easy to modify.

In terms of technical feasibility, this project would run on a web server when in production. So, users would be able to access it through any browser which has a ***JavaScript Engine*** and a data plan.

To make the project operational for larger institutions, it would require a more efficient server for faster transfer of data.

Chapter 3.0

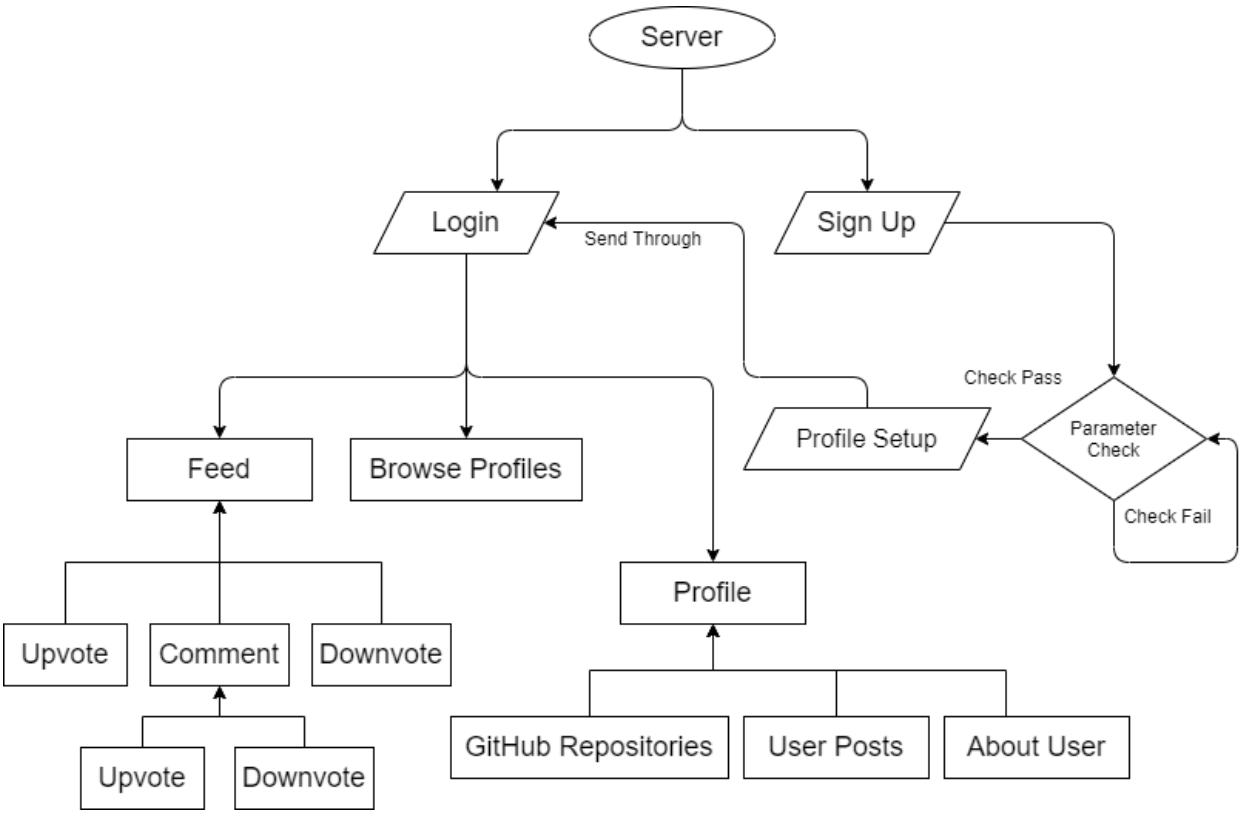
System Design

Chapter 3.0 System Design

3.1 Proposed Architecture

To create, build, or maintain the project an efficient environment is required. This project requires ***Node.js*** and its submodules along with external downloadable packages. The frontend is made with ***React*** by ***Facebook*** and an extensive backend API with ***Express***. It includes authorization and authentication with the help of stateless ***JWT***. ***Redux*** is used for state management and the data is stored in a NoSQL database, ***MongoDB***.

3.2 Flowchart



Chapter 4.0

Implementation Details

Chapter 4.0 Implementation Details

4.1 Algorithm

algorithm starts here

4.2 Code

```
{
  "dependencies": {
    "@testing-library/jest-dom": "^4.2.4",
    "@testing-library/react": "^9.5.0",
    "@testing-library/user-event": "^7.2.1",
    "moment": "^2.27.0",
    "react": "^16.13.1",
    "react-dom": "^16.13.1",
    "react-moment": "^0.9.7",
    "react-redux": "^7.2.1",
    "react-router-dom": "^5.2.0",
    "react-scripts": "3.4.2",
    "redux": "^4.0.5",
    "redux-devtools-extension": "^2.13.8",
    "redux-thunk": "^2.3.0",
    "uuid": "^8.3.0"
  }
}
```

client dependencies in package.json

```
const express = require('express');
const connectDB = require('./config/db');
const methoseoverride = require('method-override')

const app = express();

connectDB();

app.use(express.json({extended: false}));
app.use(express.urlencoded({extended:true}))
app.use(methoseoverride('_method'))

app.get('/', (req,res) => res.send('API running...') )

app.use('/api/users', require('./routes/api/users'));
app.use('/api/profile', require('./routes/api/profile'));
app.use('/api/posts', require('./routes/api/posts'));
app.use('/api/auth', require('./routes/api/auth'));
app.use('/api/announcements', require('./routes/api/announcements'))

const PORT = process.env.PORT || 5000 ;

app.listen(PORT, () => console.log(`Server started on port ${PORT}`));
```

express in server.js

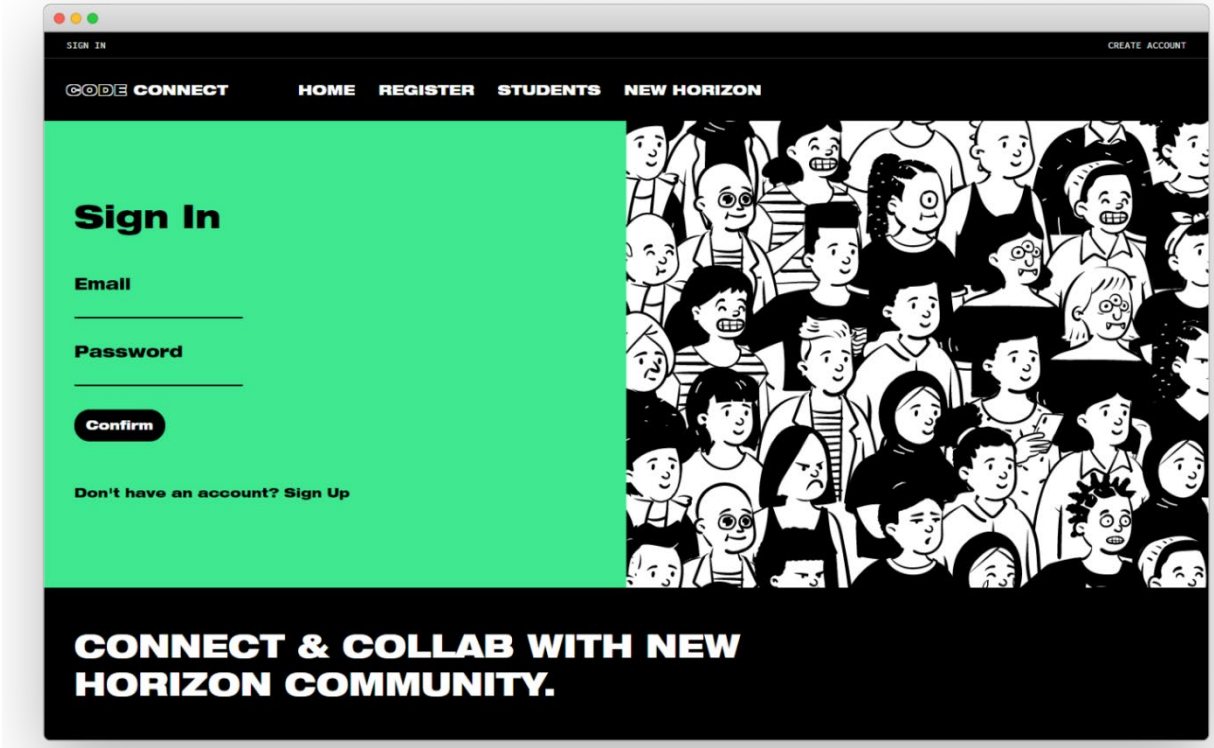
```
const mongoose = require("mongoose");
const config = require("config");

const mongoURI = config.get("mongoURI");

const connectDB = async () => {
  try {
    await mongoose.connect(mongoURI, {
      useUnifiedTopology: true,
      useNewUrlParser: true,
      useCreateIndex: true,
      useFindAndModify: false,
    });
  } catch (err) {
    console.error(err.message);
    process.exit(1);
  }
};

module.exports = connectDB;
```

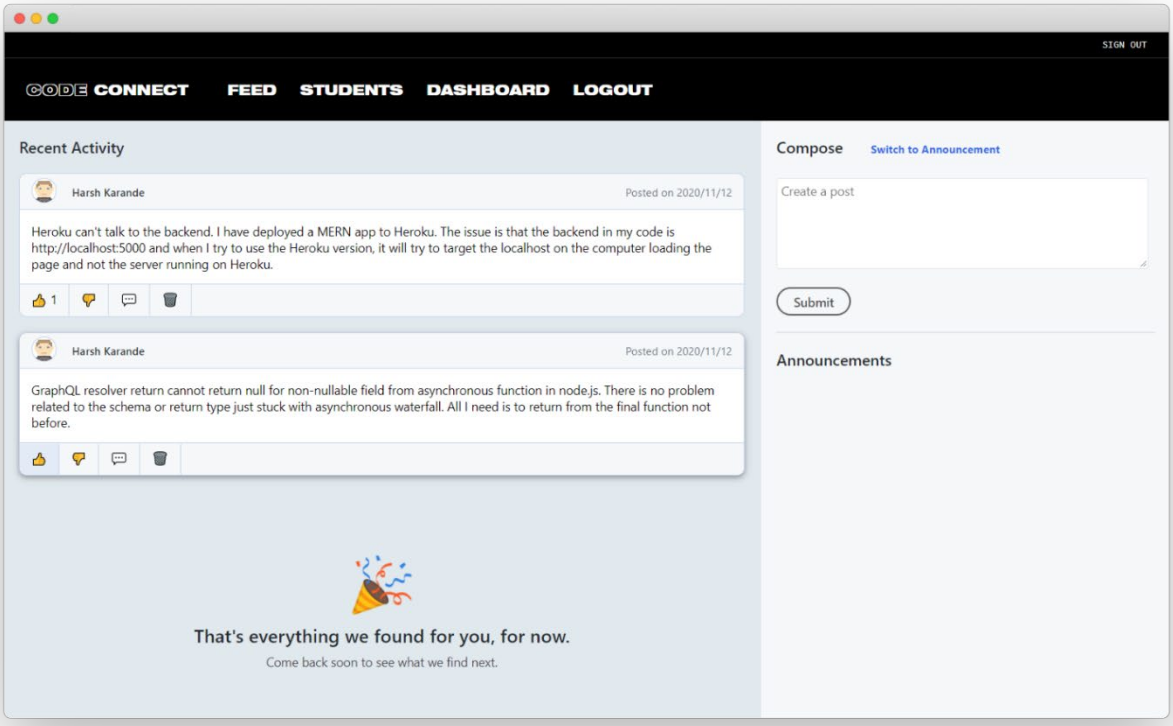
connecting to database in db.js

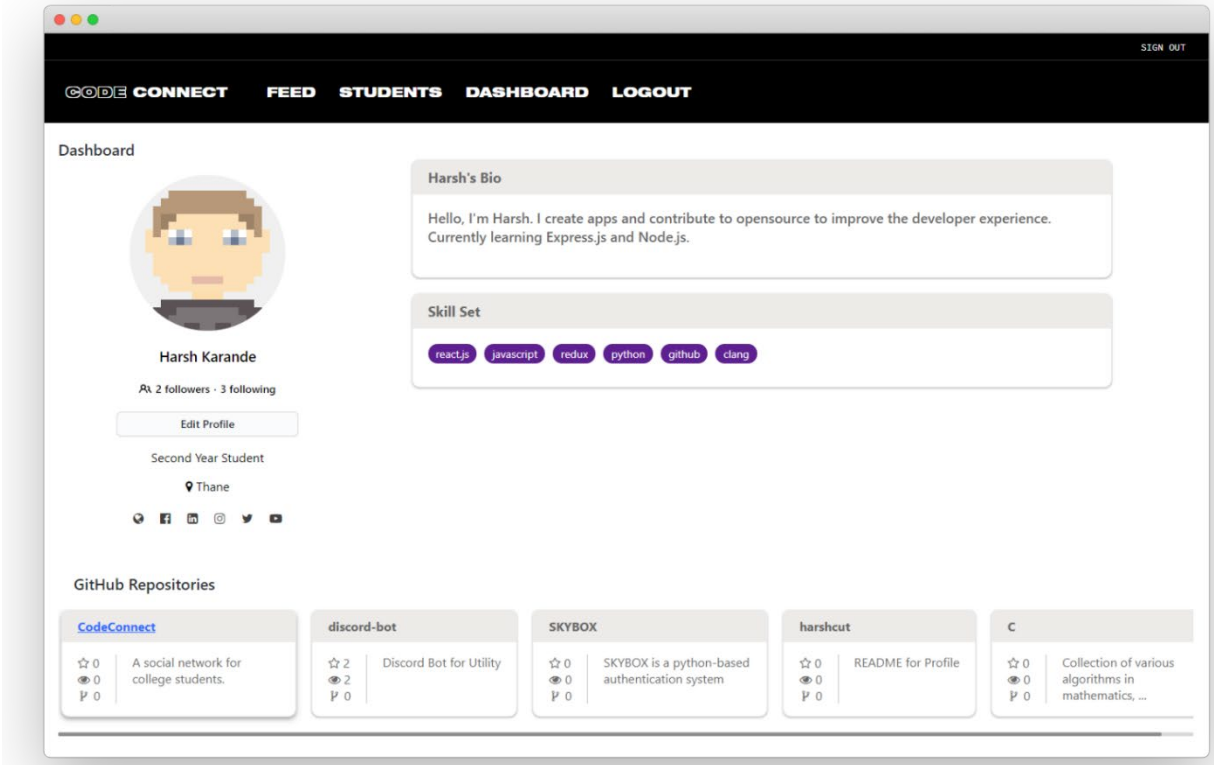
```
const mongoose = require("mongoose");

const UserSchema = new mongoose.Schema({
  email: {
    type: String,
    required: true,
    unique: true,
  },
  password: {
    type: String,
    required: true,
  },
  isVerified: {
    type: Boolean,
    default: false,
  },
  admin: {
    type: Boolean,
    default: false,
  },
  passwordResetToken: String,
  passwordResetExpires: Date,
  date: {
    type: Date,
    default: Date.now,
  },
});

module.exports = User = mongoose.model("user", UserSchema);
```

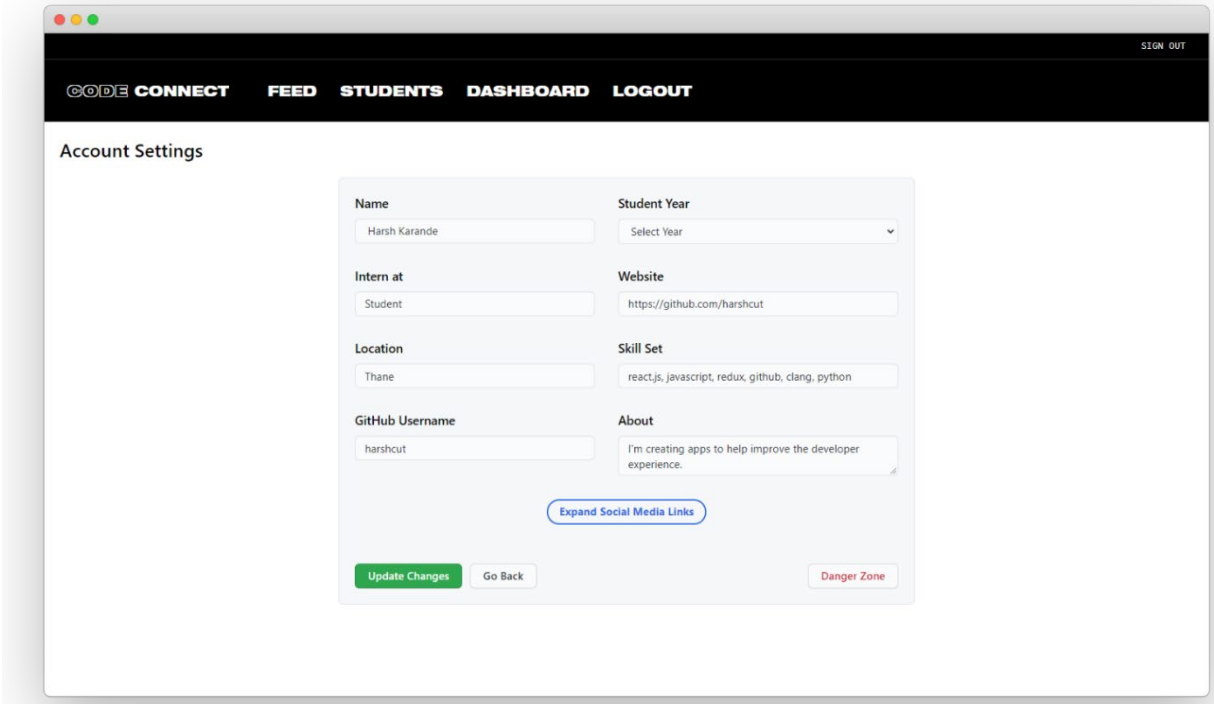
user schema in user.js

4.3 Screenshots






SIGN OUT
CODE CONNECT
FEED
STUDENTS
DASHBOARD
LOGOUT
Dashboard
Harsh Karande
2 followers · 3 following
Edit Profile
Second Year Student
Thane
Harsh's Bio
Hello, I'm Harsh. I create apps and contribute to opensource to improve the developer experience. Currently learning Express.js and Node.js.
Skill Set
react.js
javascript
redux
python
github
clang
GitHub Repositories
CodeConnect
A social network for college students.
discord-bot
Discord Bot for Utility
SKYBOX
SKYBOX is a python-based authentication system
harshcut
README for Profile
C
Collection of various algorithms in mathematics, ...


SIGN OUT
CODE CONNECT
FEED
STUDENTS
DASHBOARD
LOGOUT
Account Settings
Name
Harsh Karande
Student Year
Select Year
Intern at
Student
Website
https://github.com/harshcut
Location
Thane
Skill Set
react.js, javascript, redux, github, clang, python
GitHub Username
harshcut
About
I'm creating apps to help improve the developer experience.
Expand Social Media Links
Update Changes
Go Back
Danger Zone

Chapter 5.0

Conclusion & Future Scope

Chapter 5.0 Conclusion & Future Scope

Conclusion

The goal to provide easier and more accessible opportunities to all the computer department students to interact with each other. Juniors who are new to programming can ask for coding guidance and can showcase their skills.

Future Scope

The scope for an online application is infinite. Active presence for students, improved post thread, continuous integration and deployment can be added.

Acknowledgement

Acknowledgement

We would like to take this opportunity to thank one and all.

It is our immense pleasure to express our gratitude to our Guide, Prof. Deepak Khachane for providing us with constructive and positive feedback during the preparation of this project.

We would like to express our thanks to the Head of Computer Department, Dr. Sanjay N. Sharma and all other staff members for their encouragement and suggestions.

Last but not the least, we are thankful to our friends for their support and coordination. We are also thankful to our parents for their constant support and best wishes.

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Date