WeThinkCode_

Web I

Project II

Matcha:

because, love too can be industrialized...

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1 SUMMARY

This project is about creating a dating website.

We need to create an app allowing two potential lovers to meet. The app must take them from registration to the final encounter.

A user must be able to:

- register
- connect
- verify account
- add pictures

A user must fill his/her profile with data that aids them in matching. They must be able to search and look into the profile of other users matching their preferences.

They must have the ability to 'chat' with those who have liked them.

2 INSTRUCTIONS

This project is built using primarily JavaScript. The front is a react-app with a material-UI bootstrap. The backend is a Node.js app with an Express router and SocketIO.

The database is MySQL with no ORM, validators or User Accounts Manager.

The server is the Node built-in Web-Server but you may run Apache or Nginx.

The Website/Web Application is usable on a mobile phone and the layout works even on a smaller resolution with the Header, Footer and Main sections maintaining a proper layout.

Security is a priority and these are conditions to prevent or protect against:

- Plain-text passwords stored in Database
- Code injection of "user" Javascript in unprotected variables
- Upload unwanted content
- Alter SQL request
- SQL Injection of any kind

3 GETTING STARTED

3.1 Clone Repository

The first step to getting starting with this project is to clone the repository from its 'git'.

Ensure that you have NodeJS available on your system. You will need it to host both the Front-End and the Back-End of the application.

Ensure your mail server is active, this application sends confirmation emails to:

- activate accounts
- reset passwords
- update details
- notify of comments & likes
- notify on a Match

3.2 Backend

The backend can be located by going to the 'api' folder inside the repository you cloned. You will need MySQL to be installed independently so as to run a Relational Database.

After changing directory until you are in the same folder as 'package.json'. You will run'npm install', this will allow the npm to install all dependancies required to run the applicaton.

NB: Ensure that port 4500 is free and that no service is currently using it, a new port can be defined in 'api/server.js'

Run 'node start.js' at least once. This will create the Database environment and begin seeding it with users.

Run 'npm start' and if this has run successfully, the console will print: >Matcha has started running/listening on port:4500!

3.3 Frontend

This section is about fine-tuning the front-end and how to set it up and get it running. First ensure that you have NodeJs and NPM installed.

Navigate to the UI folder and run 'npm install'.

Inside the same directory you can run: 'npm start'. This runs the application in development mode.

Open 'http://localhost:3000' to view the running application in the browser.

The page will reload if you make edits to the client side code. It is recommended not to run it in development mode when the business is using it. This may cause harm to clients.

We recommended run the application in production mode.

Production Mode

In the UI folder, ensure port 5000 is open. This is vital in order to build the project. The project can be built for production mode. This correctly bundles React and optimises for the best performance.

The build is minified and the filenmaes include the hashes.

Your app is ready to be deployed!

4 STUDENT HONESTY DECLARATION

Engaging in any cheating or dishonesty in any form of assessment, assignment, test orexamination or other WeThinkCode_ prescribed work is considered cheating and is grounds for disciplinary action. Plagiarism, which is to present work (or a portion of work) as your own when it is not, isconsidered cheating and is not accepted at WeThinkCode_.

An evaluator can flag one for plagiarism on one of the following grounds :

- The evaluator (marker) identifies that the student does not understand all or part of the work they have submitted.
- If all or part of the work presented is plagiarised ,i.e. copied from another source without reference.

Cheating in group projects

The main purpose for a group project is to give students the experience of working in ateam, by coming up with a solution to a problem together.

- Each member must be able to show which portion of the project they worked on.
- Failure to do so will result in the student being flagged for cheating which will begrounds for disciplinary action.
- This is to avoid single members doing the majority of the group project at the benefit of a member who is not contributing.
- In this way we are able to ensure fair assessment of each WTC_ student's competence.

Group projects can be approached in two ways.

1. Divide and conquer: This is usually preferred and advised when working on big projects. The project is divided into segments, in which each member of the group can accomplish. Once completed, the group will then integrate the segments to complete the project

2. One for all: This method is usually preferred and advised when a group is working on a small project. The group will work on the solution together from the start of the project until the end. This will require the members to move at a pace in which everyone in the team can keep up with.

NOTE: At the end of each group project, each member should have a general and basic understanding of the project and the solution found. This will include running,testing and explaining the solutions of the project.

DECLARATION

I hereby declare that the work submitted by me and/or my group members is:

- Original (not plagiarised)
- References listed
- Honest & in Good Faith
- Subject to WeThinkCode_policies

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