

Project Name - Chat based social network

(you can also give it a name of your choice)

Deadline - 15 Days

Project Description -

This project should be a ready to deploy chat based social network. It must have all the features mentioned below and it must be deployed on a server before submission. You are allowed to use any kind of modules, libraries and tool you want. Remember, this is a MEAN Stack project. You are supposed to create both REST APIs and backend and as well as the frontend views for all the systems.

Frontend Technologies allowed - Bootstrap, Angular.

Backend Technologies allowed - NodeJs, ExpressJS, MongoDB, SocketIO, WebSockets.

Features of the platform -

- 1) **User management system**
- 2) **Friend Management system**
- 3) **System to chat with people**

1) User Management System -

- a) User should be able to sign up using email and gmail.
- b) User should be able to login to the system through email and password combination or using Gmail
- c) Forgot password functionality should be there to reset password.

2) Friend management system -

- a) User should have option to view all the people on the platform
- b) He/she should be able to send friend request to someone
- c) He/she should be able to see the friend request received and accept/decline them

- d) Upon acceptance or decline of friend request, the other user should get a notification.

3) System to chat with people-

- a) User should be able to chat with the people in his/her friend list
- b) This should be a real time chat built using sockets
- c) The messages in chat should also be stored in the database for later retrieval
- d) APIs should be there to retrieve previous chats.

A few important points -

- 1) Run the APIs in POSTMAN to test them properly.
 - 2) Backend should follow MVC format and should have properly defined middlewares and libraries.
-

Evaluation Basis

This project will be evaluated on following basis -

- 1) **Quality of JavaScript code** - Your application's Javascript code should be optimized to be readable with proper indentation and comments. It should be broken down into functions for better maintainability and it should not contain any logical bugs.
- 2) **Intuitive Thinking** - You have thinking intuitively and make the platform as easy to understand as possible. You have think about all the possible error cases and you have to handle them by giving alert messages to user.
- 3) **Originality of code** - Your code will be checked for plagiarism and if it's not original, it will be discarded with a negative skill score.

- 4) **Quality of frontend application** - Your frontend application should look good in terms of UI and UX. It should be fully responsive.
 - 5) **Quality of Backend application** - You have already been trained about how to code optimal REST apis using ExpressJS. You must follow the same guidelines in your application to get better skill score.
-

Deliverables from Candidate

- 1) A TXT file containing the description of your project and all your assumptions. It should also describe the features of the project and also any extra features that you have coded to get extra marks for intuitive thinking. It should also contain your registered name, email id and mobile number.
 - 2) Github repository link of this project mentioned in the TXT file
 - 3) Url of server where the application has been hosted should be mentioned in the TXT file.
-

Always remember these evaluation basis, as you do have a deadline. And your aim is to meet the deadline.

Warning - Do not submit incomplete projects or projects that are not running. They will result in negative skill score. Always use support system in case of queries.