

Development

Winter Assignment

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Information Management Group

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RetroCraft Hub

LAST DATE OF SUBMISSION: Jan 10, 2024

Embark on a journey into the digital landscape of filmmaking, where the demand for skilled professionals meets the abundance of creative talent. Your mission is to architect and develop the 'RetroCraft Hub' platform where producers act as digital casting directors, posting detailed project requirements for their film ventures. Skilled professionals, ranging from cinematographers to set designers, navigate the platform to discover and apply for opportunities that align with their expertise. Producers seeking talented individuals for their film projects will converge with skilled professionals looking for opportunities to contribute their expertise.

Your technical challenge is to design and implement the RetroCraft Hub platform. Producers should effortlessly navigate the platform to find and recruit their ideal crew members, while skilled professionals must have a streamlined experience in discovering and securing relevant job opportunities.

Objectives

Please don't feel overwhelmed; we have tried to simplify the problem statement for you in order to avoid any confusion.

So, take a deep breath, and dive in!


Essential Features - Your web application **MUST** contain these features:

1. Authentication

- a. Users can sign-up/log in using the following method:
 - i. A unique username and password login.

During sign-up, users may upload a profile picture, or opt for a default picture.

- b. Ask user if he/she wants to hire or be a freelancer on sign up

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- c) During creation of a freelancer account you can ask the user for additional details like description, previous projects etc. in the sign up form or do it later

The platform consists of two separate portals one for the freelancer POV and the other for the producers

2. Dashboard

- a. Freelancer POV:
 - i. His/Her ongoing jobs
 - ii. Freelancer should be able to see the available jobs (redirect to **job page** on click)
 - iii. Implement filters based on job profiles, paygrade, and estimated time. You can also add any more filters you might find appropriate
- b. Producer POV:
 - i. Job opportunities being offered by the producer
 - ii. Producer should be able to see available freelancers and their profiles
 - iii. Implement filters based on job profiles and expected paygrade. You can also add any more filters you might find appropriate

3. Job Page

- a. The screen will include information about the job offered including job description, expected skill set, pay grade and expected time.
- b. The information about the producer should also be provided

4. Profile

- a. Freelancer's profile page should include:

- i. Personal information: name, profile picture, about
 - ii. Work experience: job profile, previous jobs, expected pay grade
 - iii. Contact details: phone number, email
- b. Producer's profile page should include:
 - i. Personal information: name and profile picture
 - ii. Jobs offered by the producer
 - iii. Contact details: phone number, email

5. Notification Feed

- a. Freelancer POV:
 - i. Includes updates about his/her current jobs and new jobs offered consistent with the user's job profile.
 - ii. Notifications about accepted job requests and pitched requests from any producers will be shown here only
- b. Producer POV:
 - i. Includes updates about application requests for offered jobs

Hint: Make it real-time using web sockets, or you can just refresh the chat box after every 5 seconds. (Tony would prefer the former one)

Brownie Points

Your application may or may not contain these features, but implementing them will help your project stand out!

1. **Authentication** - Instead of using plain vanilla username and password, you can implement the authentication in these alternative ways:
 - a. Channeli OAuth.
 - b. Email/phone-number and password authentication, where email/phone is verified through OTP.

- c. Google OAuth
- 2. Implementing the chat feature between producers and freelancers
- 3. Implement email notifications
 - a. Notify freelancer whenever a producer accepts the request or pitches for a job
 - b. Notify producer whenever a freelancer requests for the job
- 4. Hosting the application on a server, allowing public access through a URL.

PS: Brownie points will be awarded for the extra effort only if all essential features mentioned above are successfully implemented

Frequently Asked Questions

1. Is this an individual or group project?

This is an individual project, and submission is limited to one per person :)

2. Is hosting necessary?

Brownie points for hosting, but be sure to include your app setup instructions in the README file of your GitHub repository!

3. What tech stack can I use?


You are free to use anything and everything to build your web application!

4. Can I follow online tutorials?

Yes, of course! However, we do not encourage direct copies. We expect you to understand and take inspiration from tutorials, but the core effort should be your own.

Still, have a Question? Ask Us!

We at IMG are here to help throughout your development from a learner to a web developer. Just ping us at any point if you are stuck; we surely like to stick to the motto, “Help will always be provided to those who ask for it.”



Remark: Please post your queries on the [discord server](#). We would be delighted to see your progress. Even if you don't reach the end, what's most important is that you learned something new. That's all that matters to us. We're always looking for talented developers and designers who have a constant desire to learn and grow. So, please submit your code to us via a GitHub link for a public repository. If your hard work is reflected in your code, you may even get a chance to directly appear for recruitment interviews.

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All the best!

Stay tuned, as we will soon release the submission form on our recruitment site and social media pages. Keep following us for updates.

