

# Development

# Winter Assignment

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## Information Management Group

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# The Skirmish Interrogation

LAST DATE OF SUBMISSION: Mar 12, 2023

## Overview

Once upon a time, in the mystical city of New York, a renowned surgeon named Dr. Stephen Strange was on a quest for knowledge after he suffered a debilitating injury. Discovering mystical arts to control his trembling hands, he came across the Ancient One, who saw the sorcerer supreme in him, but among many other potential candidates, Dr. Stephen Strange must stand supreme.

Thus, The Ancient One interrogates him on his capability of unleashing his powers and overcoming his failures, and wants a platform to conduct a quest, where she can ask her skirmish questions, and choose the sorcerer supreme of the Kamar-Taj.

As you might have guessed by now, we would like you to build a web application for conducting quizzes among friends. Refer to the objectives mentioned below for a detailed description of the problem statement!

## Objectives

Don't get intimidated with the problem statement, we have simplified some of the features for you to get started with this project.

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

### 1. Quizzes

- a. Users can join the quiz once they enter the invitation code (generated each time a quiz is started), and can compete with others by answering correctly and quickly.

- b. “The more the merrier!”, users must be able to form groups. For them to answer as a team, for instance, you may choose to select a player from each team to answer the questions every round.
- c. Make a leaderboard to see who is on the podium.

## 2. Questions

- a. Questions can be of any format, MCQs, SCQs, Puzzle, etc. it’s up to your creativity. But, you should ensure having a feature to upload code snippets as questions (like we put in discord).
- b. These questions can be created by a user on your platform, or can be generated by default from a question bank (you can find them online).

## 3. Log In / Sign Up

- a. The quiz creators should be able to login/register to your application for creating the quiz.
- b. You can use basic auth based on `username` and `password`, but can also integrate Google or Channel-i **Oauth**.

**Hint:** Make it real-time using web sockets for the best experience, or you can just refresh the page every 5 seconds (Although, The Ancient One would wish this to be real efficient).

## Brownie Points

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

1. **Hosting** - Dockerize and Deploy your application on a server to enable public access through a URL.
2. **Export** - Export your quiz as a pdf, or a google form (at its best).

3. **Voice Chat** - Voice chat, so that same team members can communicate during the quiz when participating as a team.

## Frequently Asked Questions

1. **Is this an individual or group project?**

This is a **group project for 1y**, in a group of 2-3 developers, but 2y must participate individually.

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. You can take inspiration from them, but the primary architecture 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.

