

# Winter Project Ideas Development

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## Information Management Group

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# The Bank of Spain

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## Overview

Here are a few basic ideas, which you can think and build upon. Submit your work in the submission form provided on our website. You can pick up any number of tasks from here, but do remember quality and quantity both matter for getting you a direct ticket to our recruitment interviews.

## Project Ideas

### Discord Bot

Create your own Discord Bot, to keep track of your deadlines, play music, greet you on your visit, recommend movies, or inform you about ongoing events in the world. The sky is the limit, try implementing as many features as you can in the bot, making it robust and handy for use.

### JS Music Player

As music streaming is increasingly adopted by people, how about building your own online music player?

The player can allow one to enjoy music in the browser and support fundamental features like uploading audio files from the device, volume control, creation of playlists, play or pause tracks. You can be creative and try implementing as many features as you like (E.g. loop, shuffle tracking, queue display). Javascript and HTML have some worthwhile libraries to assist you in the task.

## Chat Encryption

Create your own chat application with end-to-end encrypted messages.

End-to-end encryption (E2EE) is a method of secure communication that prevents third parties from accessing data while it's transferred from one end system or device to another.

Try implementing other features like a group chat.

## Game Development

Ever thought of making your own universe with flying dolphins and underwater cities? May it be the innocent 2-D SuperMario's quest to save the princess or an elaborate 3-D labyrinth designed by Professor Moody, be the architect of your world using the vast array of tools just waiting for you.

For starters, you could use ThreeJS to make a 3-D web-based game or you could use Vuforia in Unity to make a cool AR game.

## Typing Speed Tester

Create a simple application to check your typing speed. The test should generate all the necessary scores like WPM, accuracy, no. of errors, etc. for different difficulty levels.

You can try to make this multiplayer by including a feature where you can challenge your friends to beat your score. Brownie points for that!!

## Too mainstream?

These tasks are just indicative and you are in no way restricted to work only on these. Feel free to work on anything of your choice and send in your best submissions when the deadline approaches.

## Still, have a Question? Ask us!

We at IMG are here for your 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:** Post your queries on the [discord server](#). We would be really happy to see your progress. Even if you are not able to reach the end, what is more important, that you learned something new and that is all that matters to us. We look for talented developers/designers like yourselves who have a constant desire to learn and grow, so submit your code to us via GitHub link for a public repository and if your hard work reflects in your code, you may get a chance to directly appear for the interviews in the recruitment. We will release the submission form on our recruitment site and social pages soon. Keep following.

Bella Ciao.

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