

Project Report :

Title : Ideal Gaming Experience.

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To access our project , please click on the below link :

https://mgvm.github.io/Term_Project-5130f2022/

Problem Statement :

The gaming industry is one where innovation and growth occurs everyday , with the increase for advanced and powerful computer systems , users must be on the edge to continually upgrade skills and technologies to match the latest games.

Hence , the problem we attempt to tackle is to create a one-stop website which provides recommendations and suggestions on in-game settings specific to a particular game with an insight about the minimum and recommended hardware and software requirements to run a particular game.

These suggestions will help the user to enjoy a game with what they currently have , without having to struggle with unwanted game crashes and lags due to the default game settings.

Additionally, this website will provide PC build suggestions which will help beginners to the gaming world a suggestion of where to start from.

Goal :

The main goal of this website is to provide any visitor with general and specific information about computer hardware , software, and game-specific settings , so the user can get a head start or gain more insights about what goes into improving gaming experience.

Alternative approach to the project :

Another way to solve this problem would be to detect the hardware settings of the user who visits the website and suggest hardware and software improvements and game settings based on the users PC capacity.

This could be implemented by API (application program interface calls) and software which detect the users PC.

Another way is to create a website which tells the user if the game will run on a particular PC configuration and then suggest the ideal games which will run on that specific PC.

This would again need access to the user's PC configurations.

Chosen approach :

We stuck to the simple approach of suggesting the user in-game settings which will improve the gaming experience .

Further, we also suggested the user PC- builds , if he chooses to improve his hardware or software capacity to play games which demand higher configurations and settings.

We also suggested computer parts which enhance the overall gaming experience.

Justification :

Our justification for choosing this path is the issue with security , where the other approaches required the access of the user's PC configuration which had to be done by getting access to the user's computer by asking the user to download a software or extension.

This is not ideal as the user might not be comfortable with having to download additional software just to receive suggestions , may also leave the user vulnerable to being hacked which would be a devastating result .

This in-turn defeats the whole purpose of what we planned to achieve.

Usage :

Step 1 : Clone the repository to your local machine.

Step 2 : Open Terminal

Step 3 : Please install dependencies by typing : **npm install -save** , in the terminal

Step 4 : To run the application , type : **npm start**

Note : To run any of these commands , the user must install node JS.

To install node JS, please click the link given below :

<https://nodejs.org/en/>