

**MINI PROJECT REPORT**

**ON**

**(Game Selector Website)**

Submitted for the partial fulfillment of award of

**BACHELOR OF TECHNOLOGY**

**In**

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We hereby declare that the work presented in this report entitled “**Game Website**”, in fulfilment of the requirement for the third semester Investigatory Project, submitted in Mini Project Subject , I.T.S Engineering College, Greater Noida, is an authentic record of work carried out by my team and myself, during my third semester under the guidance of **Ms.Roobal Yadav**

The work reported in this has not been submitted for award of any other Certificate or diploma.

**Acknoledgement**

In completing this project report on project title Game Website.

The completion of this project report gives us much Pleasure. We would like to show our gratitude to Ms. Roobal Yadav for giving us a good guideline for project throughout numerous consultations. I would also like to expand my deepest gratitude to all those who have directly and indirectly guided us in writing this project report.

Many people, especially my classmates and friends themselves, have made valuable comments and suggestions on this proposal which gave me inspiration to improve my project. Here , we thank all the people for their help directly and indirectly to complete this project report.

Introduction To project :

A website is whatever the website owner wants it to be.It could be informational, educational, divisive – you name it.A website is essentially a platform for an individual or business to express themselves and utilize in whichever way they choose. Here in our project we have decided to use it for gaming purpose and we made a game selector website which decides which game to play from the options available.

**Langauge used**-**HTML, CSS, Java Script**

**Introduction to HTML**

**What is HTML?**

The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

**What can HTML do?**

 Web Pages Development

 Web document creation

Internet Navigation

 Game development Usage

**Features of HTML**

**It is easy to learn and easy to use.**

**It is platform-independent.**

**Images, videos, and audio can be added to a web page.**

**Hypertext can be added to the text.**

**It is a markup language.**

**Hardware Used:**

CPU- Ryzen 5 5600x

GPU- RTX 3070

BM550 Motherboard

DDR4 RAM 3200NMHz

**Software :**

Windows 10 oprating system

Sublime Text 3

What is CSS?

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, which reduces complexity and repetition in the structural content; and enable the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

Uses of CSS

We can add unique styles to our old documents of HTML.

We can change the overall look and feel of our website by following some changes in the CSS code.

A cascading style sheet can be used with JavaScript and HTML in most of the websites to develop user interfaces for a lot of mobile applications and user interfaces for various web applications.

Java Script:

JavaScript is a high-level, often just-in-time compiled language that conforms to the ECMAScript standard. It has dynamic typing, prototype-based object-orientation, and first-class functions. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

The ECMAScript standard does not include any input/output (I/O), such as networking, storage, or graphics facilities. In practice, the web browser or other runtime system provides JavaScript APIs for I/O.

JavaScript engines were originally used only in web browsers, but are now core components of some servers and a variety of applications. The most popular runtime system for this usage is Node.js.

Although Java and JavaScript are similar in name, syntax, and respective standard libraries, the two languages are distinct and differ greatly in design.

Future Uses of a website:

**1. Progressive web apps (PWA)**

Progressive web apps are now bearing the flag of the future in the web development world. PWAs recreate the in-app experience within a browser and make things simple for developers than building native applications for every device. When you need to include personalization elements, building native mobile applications is a much longer process than building a traditional website. Hence you can develop your website as a PWA for a better customer experience on mobile rather than build two applications. PWA also offers cutting-edge functionalities that support interactive mode, responsive action, offline ways of working, app-like functions, and enable websites to load quickly.

This technology has made a revolution in client experience big time and becomes a top favorite of organizations that are in look of a mobile-first approach. Pinterest builds a PWA when they determined that they offered a slow website experience. Now visitors spent 40% more time on Pinterest’s PWA than its mobile website. It helps Pinterest to increase revenue by 44% and user engagement by 60%. Starbucks and Twitter also apply the same techniques for their websites.

Main Features-

* Operations like native apps and user experience
* Enhance reliability and availability
* Easy to update and access
* Increase conversion and customer engagement ratio
* Faster page loading

2. AI in integrating solutions

According to Statista revenue from AI is expected to reach $126 billion in 2025 as many web development companies have started developing AI-enabled sites. Organizations are now applying AI in web development to predict customer choices shape the overall look and feel accordingly. AI also allows you to know customer future buying plan, who are interested in buying your products, products that customer likes and dislike and others sales-related queries. AI-based equipment and machines like facial identification, pattern identification set to lesson daily errors, boost productivity, speed, and agility.

E-commerce businesses are going towards seamless AI adoption based on voice search, etc. For example, YouTube applies NLP to create subtitles from the audio of a video automatically. Google Analytics also applies ML to understand the behavior of website users.

Main Features-

* Personalized content and good user experience
* Voice search optimization
* Deep learning, facial recognition
* Quantum and cloud computing
* Chatbots and AI-powered assistance

AI in WEB

3. New experiences with AI Chatbots

After the worldwide pandemic, we saw immense usage of chatbots and how well organizations are now realizing the importance of chatbots. Till its usage has been restricted under answering the initial questions and redirecting to a company person, but the coming year will hopefully see a generous use of this functionality. Chatbots are the blended solutions of voice/speech recognition technique and cognitive intelligence, replacing human support on websites.

Chatbot offers human-to-human interaction using natural language processing (NLP). Most web development projects are preferring chatbots to handle their sales support systems. For example, Swelly is the most famous Facebook messenger chatbot. The eBay chatbot is the most advanced e-commerce chatbot out there.

Main Features-

* Conversational maturity quotient
* Emotionally intelligent and independent
* Pre-trained, secure, and prompt in answering
* Performs complicated reasoning
* Can converse easily across multiple channels

Main Features-

* Hassle-free client experience
* Quicker access to website information
* multitasking facilitates and high client engagement
* Increases customer loyalty
* Increases conversion ratio and sales

Pictures of Our website and how it works:

This is the first page of our website, The spinwheel. In this there are 3 games represented in a circle spin wheel. When the SPIN button is pressed the wheel spins and the game on the right at 3oClocks gets selected and than that game's website is opened. Then the user can go and play that game.



Games Added in the spin wheel site:

***1.Snakes:*** Snake is the common name for a video game concept where the player maneuvers a line which grows in length, with the line itself being a primary obstacle. The concept originated in the 1976 two-player arcade game Blockade from Gremlin Industries, and the ease of implementing Snake has led to hundreds of versions (some of which have the word snake or worm in the title) for many platforms.

After a variant was preloaded on Nokia mobile phones in 1998, there was a resurgence of interest in the snake concept as it found a larger audience.



***2.Save the Block:***

Save the block is a game where the user is supposed to save the given block from crashing into the obsticles. In this you are given an accelarate button, you have to press that button in order to keep the box in air and move it across the canvas without getting hit by the obstacles.



***3.Tic Tac Toe:***

Tic-tac-toe is played on a three-by-three grid by two players, who alternately place the marks X and O in one of the nine spaces in the grid. There is no universally-agreed rule as to who plays first, but in this article the convention that X plays first is used.Players soon discover that the best play from both parties leads to a draw. Hence, tic-tac-toe is often played by young children who may not have discovered the optimal strategy.

Because of the simplicity of tic-tac-toe, it is often used as a pedagogical tool for teaching the concepts of good sportsmanship and the branch of artificial intelligence that deals with the searching of game trees.

