
Project Topic: JavaScript Applications Website

Project Group Members:

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Introduction:

We are going to build a website pertaining to some of the JavaScript Applications. Our website will be built using web languages and frameworks. It will provide an interface to the users to interact with some cool JavaScript applications through which they learn while playing games.

The applications which we are going to make on this website are a TODO List, Simon Game, and Typing Speed Game. These applications not only relax the users mind but also boost their skills. We choose these applications to show most of the functionality of JavaScript to the user.

With the help of ToDo List, the user can save their daily tasks in the list and after completing each task they can simply remove it. So, this type of application is very useful for those users who make a task list before doing something.

With the help of Typing Speed Game users will be able to relax their mind as well as improve their typing skill. This is a fun activity for those users who want to check their typing speed and also want to play games.

Our Last Application but not the least is Simon Game which is a memory skill game invented by Ralph H. Baer and Howard J. Morrison. This game is a little bit challenging and fun also and we hope that users who love brain games will love that also.

We are using HTML-5 to provide structure to our website, CSS-3 for styling our web pages, including colours, style, font, layout and many more., Bootstrap as a framework for the ease of designing and JavaScript/JQuery (which is a JavaScript Library) to provide functionality to our website.

Problem Statement:

There are many websites on the internet which provide only games, but our idea is to create a website through which users can learn while playing games. So, basically we are promoting the idea of learning with fun. Considering that, we are building all our applications as a game through which a user can learn while playing.

Objective:

The aim of our project is to target thousands of users to use and engage with our website. We have decided to work on this project because most of the people face the same problem when they want to relax their mind but don't want to waste their time on any game which has no use. So, to overcome this problem we will build a website where users can improve their skills with fun and also manage their work.

We will build an interactive user interface with the help of HTML, CSS, JavaScript and Bootstrap which illustrates the things in an efficient way so that it is easy to use and understand.

We are making applications like a Typing Speed game so that users can relax their mind with improving their typing skills. Our next application will be ToDo List; with the help of this application users can manage their work and life in a very easy and efficient manner. Our last application will be Simon Game, which will help users to increase their memorizing power.

Working Methodology:

TASKS	Duration (10, Aug 2020 to 17, Nov 2020)			
	August	September	October	November
Understanding Problem	➡			
Topic Finalization	➡			
Project Synopsis	★			
Wireframe		➡		
Mockup + Review		➡		
Learning JavaScript and other frameworks	➡			
Content Creation		➡		
Model Implementing		➡		
Testing and Review				➡
Launch				LIVE

Tools Required:

1. Hardware Requirements:

- a. Personal Computer with minimum of 4GB RAM and core i3 Processor.

2. Software Requirements:

- a. Windows Operating System.
- b. Integrated Development Environment (IDE) - Visual Studio Code 1.47
- c. GitHub Desktop 2.5.3

3. Language and Framework Requirements:

- a. HTML-5
- b. CSS-3
- c. Bootstrap 4 / 5
- d. JavaScript
- e. JQuery

Team Contribution:

The creation of teams has become a key strategy in making our project. Team building is an essential element in supporting and improving the effectiveness of tasks during making of our project. Our team will include the total strength of two persons and we are dividing our project into modules which becomes easier to divide our work.

We are going to divide the modules according to the complexity and also availability of the person. If the task is too complex we both work together and if the task is not much complex then we will perform it individually.

We have decided that while making a User Interface we will work together. Now while making of our javascript applications -

Simon Game will be handled by Kshitij Gupta, TODO List will be handled by Ayush Gupta and Typing Speed Game will be handled by both of us.

Limitations of the Technologies and Resources Used:

While using HTML we will face some of the problems like -

- ☐ The primary limitation of HTML is that HTML tags do not describe the meaning of the data included in an HTML document.
- ☐ HTML can create only static and plain pages so if we need dynamic pages then HTML is not useful.

While using CSS we will face some of the problems like -

- ☐ CSS cannot calculate quantities or store variables. This means it cannot store commonly used parameters in one location that is easy to update.
- ☐ CSS cannot generate text (page numbers, etc.)

While using Bootstrap we will face some of the problems like -

- ☐ There will be a requirement of lots of style overrides or rewriting files that can thus lead to a lot of time spent on designing and coding.
- ☐ We would have to go the extra mile while creating a design otherwise all the websites will look the same if you don't do heavy customization.

While using JavaScript we will face some of the problems like -

- ☐ Client-side JavaScript does not allow the reading or writing of files. It has been kept for security reasons.
- ☐ The browser interprets JavaScript differently in different browsers.

We are going to face limitations with resources which are like:

- a. Individuals have their personal computer so that they can work on their project .
- b. Personal computer should have a minimum of 4GB RAM and core i3 processor.
- c. A person should have internet access with high bandwidth and low latency.

Online Git Repository:

JavaScript-Applications

https://github.com/ayushgupta6387/JavaScript_Applications_Website

https://github.com/kshitijgupta468035/JavaScript_Applications_Website

Conclusion:

It will be a wonderful and learning experience for us while working on this project. We decided to work on this project because we want to promote fun with learning and our all applications are based on this concept.

Fun with learning helps people to release their stress while not only playing the games, but also allows them to learn a new skill.

We are trying to make a good interactive User Interface (UI) so that the user will not face any difficulties while using. We are building different types of applications through which we can target different types of users according to their needs.

The joy of work and thrill involved while tackling the various problems and challenges will give us the feel of the developer industry.

References:

<https://devdocs.io/>

<https://www.beta-labs.in/>

<https://www.w3schools.com/default.asp>

<https://stackoverflow.com/>

<https://www.youtube.com/>

We are going to use these resources as a reference to build our project. These all resources are good e-learning platforms and give us a lot of information about the applications we are going to make on our website.

Signature of Project Guide: _____