SmallSEOTools

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ABSTRACT
My project is Rock Paper Scissors Web Game. This is a game that involves fast thinking and lots of fun. Here the participant compete with the computer which plays its chance using efficient algorithm. Computer generates a simultaneous move with the participant using its algorithm trying to win the game. This web game is implemented using Python, HTML, CSS and JavaScript.
This technical report identifies all features and lists out the functionalities and working environment in which the Rock Paper Scissors web game can be executed. This report lists the overall description of the game with essential features and drawbacks in the application. This project gives an insight into the different aspects of web development essentials.
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INTRODUCTION
Rock Paper Scissors is the classic 'stone paper scissors' game converted into a fun online single player game. Select one out of the three preference- and see if you can overpower the data processor. Will you procure or forfeit? The chance is random! In this game player and computer simultaneously select one of three shapes i.e. rock, paper or scissors which are represented by a closed fist, a flat hand and a V, formed with a fist by extending the index finger and middle finger.
History-
Rock paper scissors was first created in China at the time of Christ, but stayed there for hundreds of years. It wasn't until the 1700 that it made its way over to Japan and was known as 'Janken' and then spread to west. This game was not just played to decide who should get a favour in a situation but also to remove the boredom.
Rules-
The rules remain the same as the original game: Rock breaks scissors, paper covers rock and scissors cut paper. If both players chose the same shape than that round is tied.
Methods used in the project-
Agile methodology and principles were used in this project. Which includes discussion, analysis, strategy, execution, and finally testing of the model.

Discussion was made with my superiors and friends about the project idea, than topics and skills required for the project were analysed. Strategy was made in accordance with it. Finally knowledge gathered from different sources was executed to complete the project and at last testing of the game was done on different search engines and OS.

Objectives and project goal-

Objective of this project was to have an overview of the web development and learn its basic skills. A game was build using few web development languages. This gave me knowledge about the working of web pages and how they are created. Goal of the project was to construct a working web game which can be accessed through python and this was successfully achieved.

Tools & Technology Used

Sublime Text 3

Sublime Text 3 is one of the most used, fastest and easy to write text editor. It basically allows us to create and edit a large range of programing language files on your computer. Code is first written in sublime text and saved with its respective extension, then is run. Sublime Text helps in indentation of the text.

HTML (Hyper Text Markup Language)

The Hyper Text Markup Language or commonly known as HTML, is a markup language which is frequently used to create web pages. This is the language that computers use to communicate with each other on the web. The content of Hyper Text Markup Language is displayed on the browser. Browsers have their own mechanism for recognizing web languages and HTML is considers as its backbone. HTML is used to define the structural framework of a web page. HTML uses tags to create HTML elements. In simple language tags are predefined keywords. An HTML element is initialised by a start tag (format:), some content and an end tag (format:).

Basic framework of an HTML Page-

- This tag is used to specify the language HTML 5.

<html> - This tag signals that from here we are going to write in HTML code.

<head> - In this metadata is stored.

<title> - It contains page name that will appear on the top of browser window or tab.

<body> - Here all the content is written.

Visual structure of an average HTML page.

CSS (Cascading Style Sheets)

CSS stands for Cascading Style Sheets. CSS describes how HTML elements are to be displayed (look and feel as part of a web page) on the screen, paper or in other media. CSS code can be called many times again and again in same or different HTML files which saves lots of space and time. CSS is smooth to learn and understand style sheet language that imparts a powerful edge over the presentation of an HTML document. There are three ways to declare CSS to HTML file: Inline, internal and external.

Inline styles are written straight into the HTML tags using the style attribute. Internal styles are used for the whole page. Inside the head element, the style tags encapsulate all of the styles for the page. While the external styles are used for the whole, multiple page website. This is a separate CSS file which is saved as ".css" in the same directory as your HTML page. Then it is linked to the desired HTML page.

JavaScript

JavaScript is one of the most used and fast growing client-side scripting language. It is used to write the logic of a website. JavaScript is the only programing language to write a frontend code and can be used to develop web page, mobile apps and even games. It is dynamic language and has many in built libraries that contain functions of a real world problem and can be used

Sources	Similarity