SYNOPSIS

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Project Name: Smart Calculator

Submitted By :-

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Designation:

Department: Training and Development

Submitted To:

Mentor name: Mr. Ankit Arora

Title of the Project: Smart Calculator.

Objective: The objective of this project is to design and implement a smart calculator that goes beyond basic arithmetic operations. The aim is to create a versatile tool that can handle complex mathematical functions, provide intelligent suggestions, and enhance user experience.

Scope: The smart calculator will cover a wide range of mathematical operations, including basic arithmetic, algebraic expressions , various other calculations like BMI(Body Mass Index) ,Carbon Emission Calculator ,Word calculator and checker . It will also incorporate intelligent features such as expression simplification.

Methodology: The development will follow an iterative process, including requirements gathering, system design, implementation, testing, and refinement. Agile methodologies will be employed to ensure adaptability to evolving user needs.

Proposed System: The smart calculator will feature a user-friendly interface with a keyboard(on the website itself) for input and a display for results. The underlying algorithms will handle various mathematical functions and incorporate machine learning techniques to improve suggestion accuracy over time.

Features:

1. Basic arithmetic operations (addition, subtraction, multiplication, division).
2. Algebraic expression handling.
3. BMI(Body Mass Calculator). 4. Carbon Emission Calculator.
5. Word Calculator and Checker.
6. Expression simplification.

Implementation Plan:

1. Requirements Gathering (Month 1): Define user requirements and functionality expectations.
2. System Design (Month 2-3): Develop the architecture, UI design, and algorithmic framework.
3. Implementation (Month 4-6): Code the smart calculator, incorporating necessary libraries and modules.
4. Testing (Month 7): Conduct thorough testing to identify and resolve bugs.
5. Refinement (Month 8): Implement user feedback and make necessary improvements.

Team Members:

Aditya Chauhan, who is make a complete this project.

Resources Required:

1. Developers proficient in relevant programming languages (Java Script, CSS, HTML, etc.).
2. Graphic designers for UI/UX.
3. Testing team.
4. Computing resources for algorithm development.
5. Data storage for user history and learning algorithms.

References:

1. "A Smarter Way to Learn JavaScript" Author: Mark Myers.
2. "HTML & CSS" Author: Jon Duckett.

Expected Outcomes:

1. A functional smart calculator with advanced mathematical capabilities.
2. Improved user experience through intelligent suggestions and features.
3. Enhanced accuracy in complex calculations.

Project Supervisor:

Mr. Ankit Arora who is supervising this project.

Conclusion:

The development of a smart calculator aligns with the growing need for efficient and intelligent tools. The project aims to provide users with a versatile calculator that not only performs basic operations but also adapts to various other calculations, making mathematical tasks more accessible and enjoyable. Like BMI(Body Mass Index),Carbon Emission Calculator , word checker and calculator in one place, The iterative development process ensures that user feedback is incorporated, resulting in a robust and user-friendly product.