



“CALCULATOR AND TEXT EDITOR”

TASK - 2



BASIC CALCULATOR AND TEXT EDITOR:

- A calculator website with some basic mathematical operations such as addition, subtraction, multiplication and division.
- A text editor website with basic alignment settings and font settings that includes changing font case, type, size and color.

LMS USERNAME	NAME	BATCH
2105a3575	SRIMATHI M	A35
2105a3557	PRINCY V	A35
2105a3438	KALEESWARI K	A34
2105a3574	SOUNDARIYA M	A35
2105a3577	SWETHA R	A35



OBJECTIVE (CALCULATOR):

Our calculator website is designed to provide users with a convenient and reliable tool for performing a wide range of calculations. Whether you're a student, professional, or simply someone who needs to perform calculations on a regular basis, our objective is to provide you with an easy-to-use platform that delivers accurate and fast results. We aim to help you save time and effort by providing you with a one-stop-shop for all your calculation needs.

SCOPE (CALCULATOR):

Our calculator website offers a comprehensive range of calculation tools to help you solve a variety of mathematical problems. Our platform includes basic arithmetic functions such as addition, subtraction, multiplication, and division. Our website is suitable for a wide range of users, including students, professionals, and anyone in need of basic calculations.

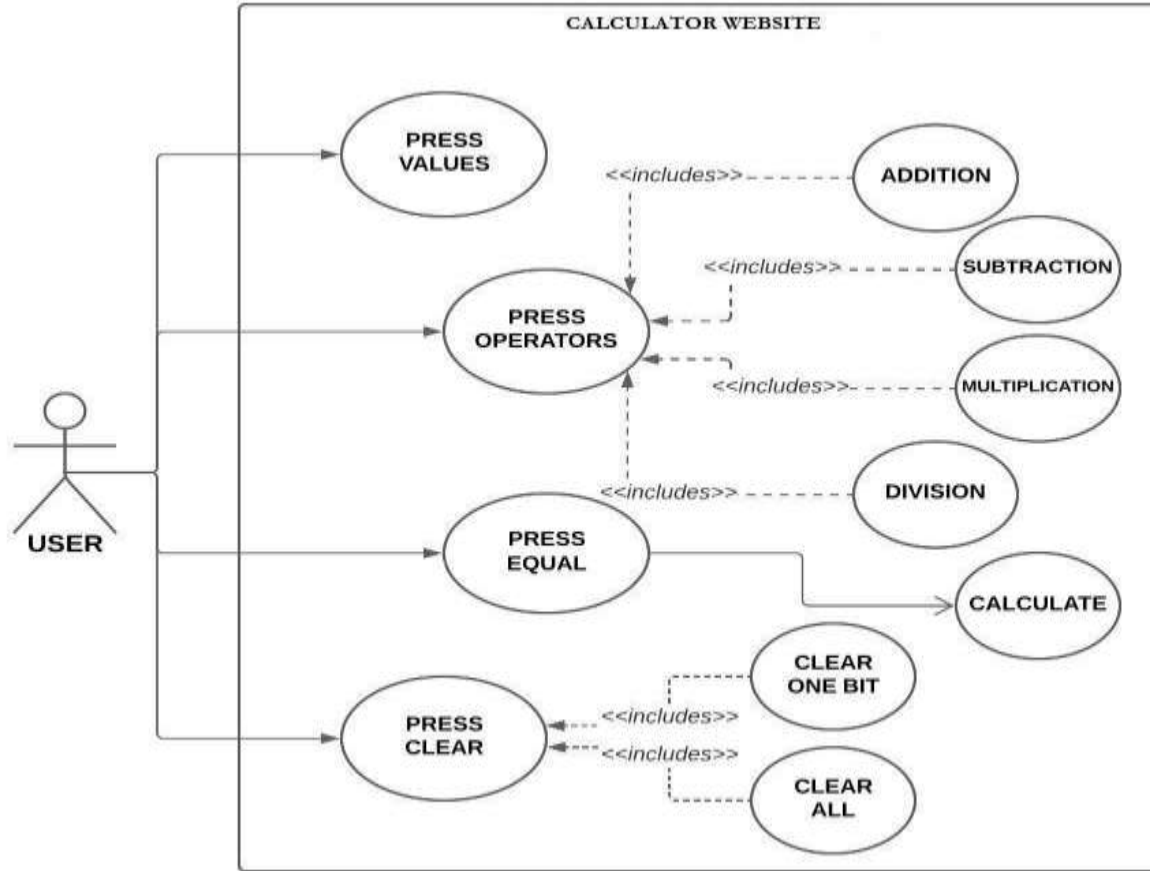
OBJECTIVE (TEXT-EDITOR):

Our text editor website aims to provide users with a fast, reliable, and user-friendly platform to create, edit, and share written content. We strive to offer a range of features and tools that cater to the diverse needs of our users, whether they are writers, bloggers, students, or professionals. Our objective is to enhance the writing experience for our users and help them achieve their writing goals with ease and efficiency.

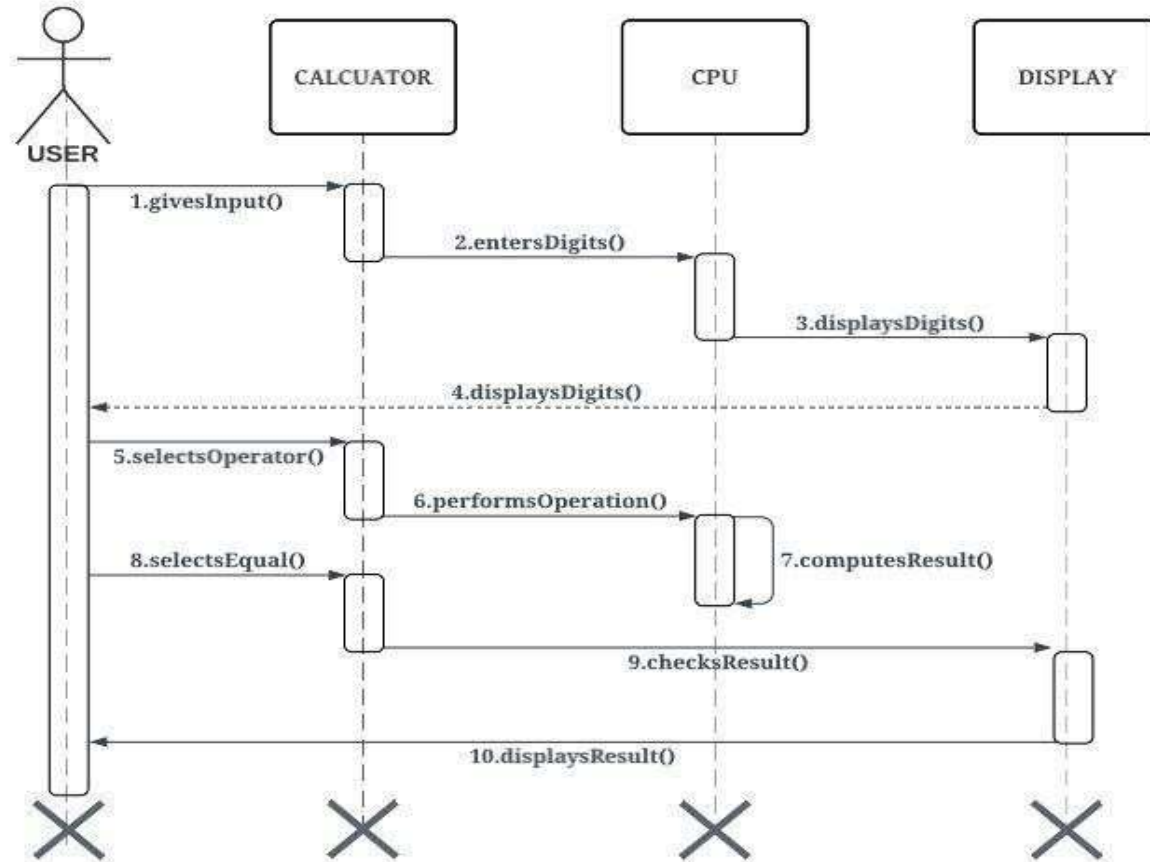
SCOPE (TEXT-EDITOR):

Our text editor website offers a wide range of features and tools including a customizable writing interface, real-time collaboration with others, access to a comprehensive library of templates and themes, a built-in grammar checker, and seamless integration with popular file formats. Our scope is to provide a one-stop solution for all writing needs, from simple notes to complex documents, while ensuring a seamless and enjoyable user experience.

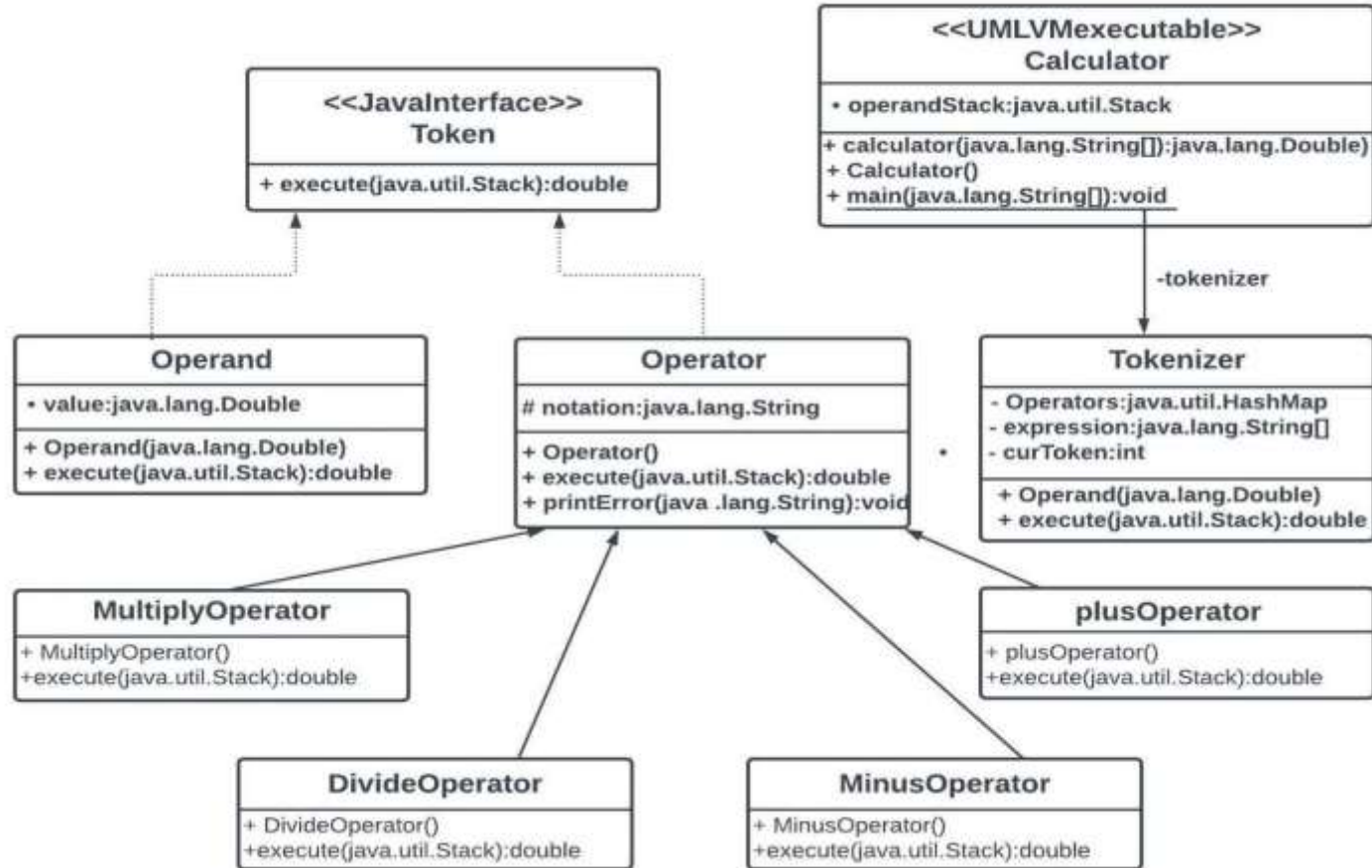
USE CASE DIAGRAM(CALCULATOR):



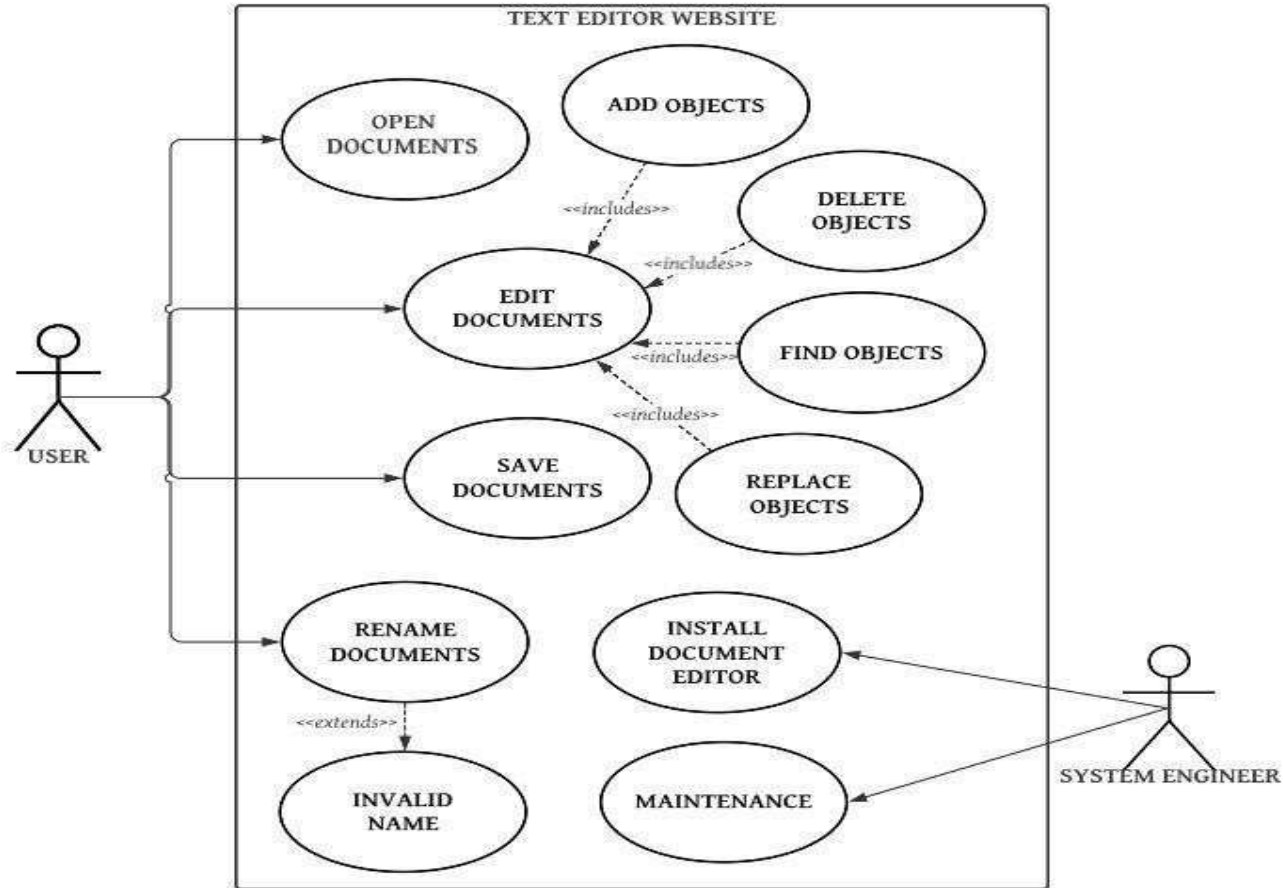
SEQUENCE DIAGRAM(CALCULATOR):



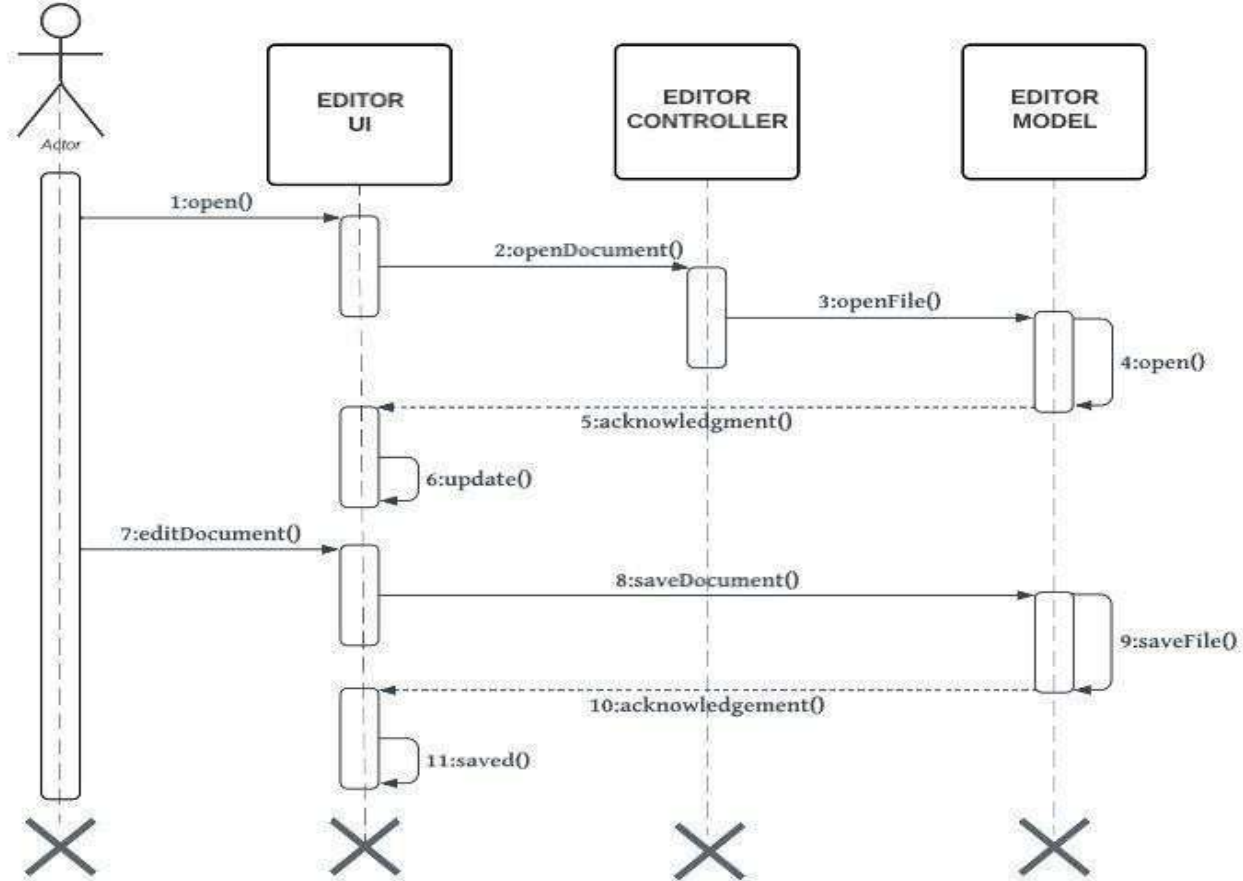
CLASS DIAGRAM(CALCULATOR):



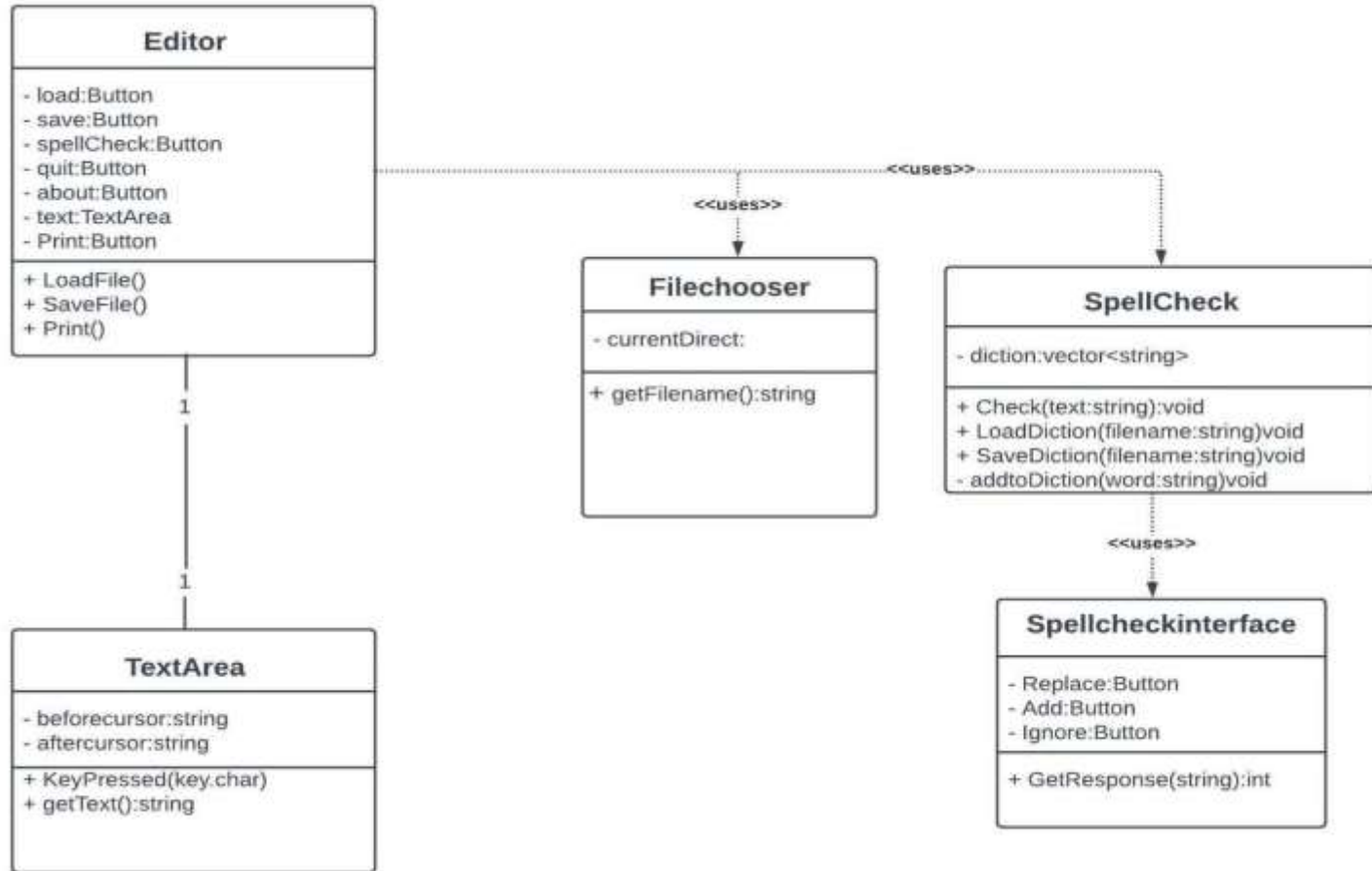
USE CASE DIAGRAM(TEXT-EDITOR):



SEQUENCE DIAGRAM(TEXT-EDITOR):



CLASS DIAGRAM(TEXT-EDITOR):



STEP-WISE DESCRIPTION:

❖ CALCULATOR:

- ✓ Planning the layout of the website and deciding on the tools we will use to build it. we built it from scratch using HTML, CSS, and JavaScript.
- ✓ Creating an html file for our calculator web page. This file contains the basic structure of the web page, including the head and body tags, title and any other elements that we want to include, such as buttons, input fields and a display area.
- ✓ Adding CSS styles to our html file to improve the appearance of our calculator web page. This can include choosing a color scheme, selecting fonts and positioning elements on the page.
- ✓ Writing the JavaScript code to handle the calculator's functionality. This includes writing functions for performing arithmetic operations such as addition, subtraction, multiplication and division, as well as functions for handling user input and updating the display area.
- ✓ Testing our calculator website to ensure that it works as expected. Test is done for edge cases, such as dividing by zero or handling large numbers.
- ✓ Deploying our website to a web hosting service, so that it can be accessed by anyone with an internet connection.
- ✓ Optimizing our website for performance and search engine optimization (SEO), to ensure that it loads quickly and is easily discoverable by search engines.
- ✓ Continuing to maintain and updating our website as needed, adding new features or fixing any issues that arise over time.

STEP-WISE DESCRIPTION:

❖ TEXT-EDITOR:

- ✓ Planning the layout of the website and deciding on the tools we will use to build it. We built it from scratch using HTML, CSS, and JavaScript.
- ✓ Creating an html file for our text editor web page. This file contains the basic structure of the web page, including the head and body tags, title and any other elements that we want to include, such as text area and tool bar.
- ✓ Adding CSS styles to our html file to improve the appearance of our text editor web page. This can include choosing a color scheme, selecting fonts and positioning elements on the page.
- ✓ Writing the JavaScript code to handle the text editor's functionality. This includes writing functions for performing arithmetic operations such as typing and formatting text, as well as functions for handling toolbar actions like bold, italic and underline.
- ✓ Testing our text editor website to ensure that it works as expected. Test is done for edge cases, such as handling large amounts of text, undo and redo functionality and handling multiple users.
- ✓ Deploying our website to a web hosting service, so that it can be accessed by anyone with an internet connection.
- ✓ Optimizing our website for performance and search engine optimization (SEO), to ensure that it loads quickly and is easily discoverable by search engines.
- ✓ Continuing to maintain and updating our website as needed, adding new features or fixing any issues that arise over time. We may want to add features like spell-check, file upload/download, or integration with cloud storage services.

FUNCTIONAL REQUIREMENTS:

❖ CALCULATOR:

- **Addition:** The calculator should allow users to add two or more numbers.
- **Subtraction:** The calculator should allow users to subtract two or more numbers.
- **Multiplication:** The calculator should allow users to multiply two or more numbers.
- **Division:** The calculator should allow users to divide two or more numbers.
- **Clear button:** The calculator should have a clear or reset button that allows users to clear the current calculation and start a new one.
- **Order of operations:** The calculator should follow the standard order of operations for mathematical calculations.
- **Memory functionality:** The calculator may include memory functionality, allowing users to store a number temporarily and use it in subsequent calculations.
- **Keyboard support:** The calculator should allow users to use their keyboard to input numbers and perform calculations.
- **Responsive design:** The calculator website should be designed to work on multiple devices and screen sizes.
- **Accessibility:** The calculator website should be accessible to users with disabilities, with features like keyboard navigation and alternative text for images.
- **Error handling:** The calculator should handle errors such as division by zero or invalid input.

FUNCTIONAL REQUIREMENTS:

❖ TEXT-EDITOR:

- **Text input:** The text editor website should allow users to input text, either by typing or by pasting.
- **Basic formatting:** The text editor website should allow users to format text with basic options such as bold, italic, underline, and font size.
- **Text alignment:** The text editor website should allow users to align text to the left, center, or right.
- **Copy and paste:** The text editor website should allow users to copy and paste text from other sources, such as other websites or documents.
- **Save and open files:** The text editor website should allow users to save their work and open previously saved files.
- **Printing:** The text editor website should allow users to print their work.
- **Keyboard shortcuts:** The text editor website may include keyboard shortcuts to allow users to perform common tasks more quickly.
- **Responsive design:** The text editor website should be designed to work on multiple devices and screen sizes.
- **Accessibility:** The text editor website should be accessible to users with disabilities, with features like keyboard navigation and alternative text for images.
- **Error handling:** The text editor website should handle errors such as invalid input or file corruption.

NON-FUNCTIONAL REQUIREMENTS:

❖ CALCULATOR:

- **Performance:** The calculator website should be fast and responsive, with quick calculations and minimal loading times.
- **Usability:** The calculator website should be easy to use and understand, with a simple and intuitive user interface.
- **Security:** The calculator website should be secure, with appropriate measures in place to protect user data and prevent unauthorized access.
- **Compatibility:** The calculator website should be compatible with a wide range of browsers and devices, ensuring that it works well for all users.
- **Reliability:** The calculator website should be reliable, with accurate calculations and minimal downtime or errors.
- **Maintainability:** The calculator website should be easy to maintain and update, with clear and well-organized code and documentation.
- **Scalability:** The calculator website should be scalable, able to handle increasing numbers of users and calculations without slowing down or crashing.
- **Accessibility:** The calculator website should be accessible to users with disabilities, with features like keyboard navigation and alternative text for images.
- **Internationalization:** The calculator website may support internationalization, with features like localization and currency conversion.

NON-FUNCTIONAL REQUIREMENTS:

❖ TEXT-EDITOR:

- **User-friendly interface:** The website should have a clean and user-friendly interface that makes it easy for users to navigate and use the various features.
- **Responsive design:** The website should be designed with a responsive layout that adapts to different screen sizes and devices, ensuring that it looks and works well on desktops, laptops, tablets, and smartphones.
- **Browser compatibility:** The website should be compatible with the latest versions of popular browsers such as Chrome, Firefox, Safari, and Edge, to ensure that it works well for all users.
- **Fast loading speed:** The website should load quickly, with minimal waiting times for users.
- **Data privacy:** The website should protect user data and privacy, with appropriate security measures in place to prevent unauthorized access or data breaches.
- **Accessibility:** The website should be designed with accessibility in mind, making it easy for users with disabilities to use the site and its features.
- **Search engine optimization:** The website should be optimized for search engines, with appropriate metadata and tags to help it rank well in search engine results pages.
- **Scalability:** The website should be designed with scalability in mind, allowing it to handle increasing traffic and user activity without slowing down or crashing.
- **Reliability:** The website should be reliable and available, with minimal downtime or errors.
- **Support and documentation:** The website should provide clear and comprehensive documentation, tutorials, and customer support to help users get the most out of the site and its features.

ASSESSMENT PARAMETER

CHECK-LIST



- SETUP PROJECT FOR CALCULATOR PROJECT
- SETUP BASIC STRUCTURE OF TEXT-EDITOR PROJECT
- CREATE MAIN COMPONENT WITH ALL FEATURE BUTTONS
- CREATE A JSON OBJECT TO STORE DATA FOR TEXT EDITOR
- PUSH BOTH CODE TO GITHUB
- CREATE A `evaluateExpression` FUNCTION TO EVALUATE VALUE
- CREATE A BUTTON COMPONENT WITH ON CLICK HANDLER
- CREATE A MAIN COMPONENT WITH OUTER STRUCTURE OF CALCULATOR

HARDWARE REQUIREMENTS(CALCULATOR):

- Display
- Input devices
- Network connection
- Network infrastructure
- Development environment

SOFTWARE REQUIREMENTS(CALCULATOR):

- HTML
- CSS
- JavaScript

HARDWARE REQUIREMENTS(TEXT-EDITOR):

- Display
- Input devices
- Network connection
- Network infrastructure
- Development environment

SOFTWARE REQUIREMENTS(TEXT-EDITOR):

- HTML
- CSS
- JavaScript

SUMMARY OF THE TASK:

❖ CALCULATOR:

Our calculator is designed to be easy to use and provides all the basic functions you need to make complex calculations with ease. It supports basic operations such as addition, subtraction, multiplication, and division. Our calculator's user-friendly interface makes it easy for anyone to use, whether you're a math whiz or just need to make a quick calculation. Plus, with its high level of accuracy, you can be sure that the results you get are reliable. Give our calculator a try today and experience the convenience of fast and accurate calculations right at your fingertips.

❖ TEXT-EDITOR:

Our text editor is designed to be versatile and user-friendly, with a range of features that make it ideal for a variety of applications. Whether you're drafting a document, writing an email, or crafting a blog post, our text editor provides all the tools you need to get the job done. It offers basic features such as text formatting, spell-checking, and auto-saving, as well as advanced features such as document sharing and collaboration. With our text editor, you can work on your documents from anywhere, at any time, and easily share your work with others. Plus, our user-friendly interface makes it easy to get started, no matter your level of experience. Give our text editor a try today and take your writing to the next level.

Submission Github



<https://github.com/PRINCY-V/super-guide#super-guide>

Thank
you!

