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#### **CODE EDITOR BASED ON REACT**

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#### **ABSTRACT**

The world of the internet is growing rapidly, many applications that were previously created on the desktop start moving to the web. Many applications can be accessed anytime and anywhere easily using the internet. Developers need tools to create their applications one of them name code editor. The purpose of this research is to design and develop a real time code editor application using web socket technology to help us collaborate while working on the project this application provides feature where users can collaborate on a project in real time. The authors using analysis methodology with conducting on a study of the current code editor applications distributing questionnaires and conducting on literature study. It is a web application that provides workspace to writing perform, display the results of the code through the terminal and collaborate with the users in real time. The application's main features are providing workspace to make, execute and build the source code. This application supports Html, CSS and JavaScript.

#### I. INTRODUCTION

What is a code editor? It is a very important tool for a programmer's work. Regardless of whether you are developing your pet project solo, working in a team on a big project, or creating a web or mobile application, you will need a code editor. A code editor can be a standalone application or built into an IDE. It provides several useful features that allow programmers to write code faster and easier. Code editors are programming language specific. Some editors support one or two programming languages whereas some support multiple programming languages. It can give suggestions and highlights based on language support. Structure editor is a type of coding editor, or we can say that it is the functionality that is included in the editors. Typically, code editors have syntax highlighting and allow you to automatically format your code. In addition, they allow you to quickly find and replace text, rename objects in code, and much more While working on a specific project I realized that for either it is html, CSS or JavaScript I need to open different editors and at that time I was learning react, so I decided to make one editor or platform for each of them.

#### II. METHODOLOGY

Code editor is a program designed for writing software in which developers utilize human-readable text to make code easier to parse and understand. They have built-in knowledge of programming languages, allowing different elements of the code (i.e., variables, keywords, functions, etc.) to appear in different colors and improve readability and analysis by developers.

Code editors can compile and run code. In addition to being able to print a code's output, these programs can also identify where and why a particular line of code fails to execute.

Dependencies: The major requirement of the resources for designing and developing the proposed smart map is as follows.

- HTML
- CSS
- JavaScript
- React
- Code mirror library

**HTML:** HTML stands for Hyper Text Markup Language. It is the standard markup language for creating web pages. It describes the structure of a web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content.

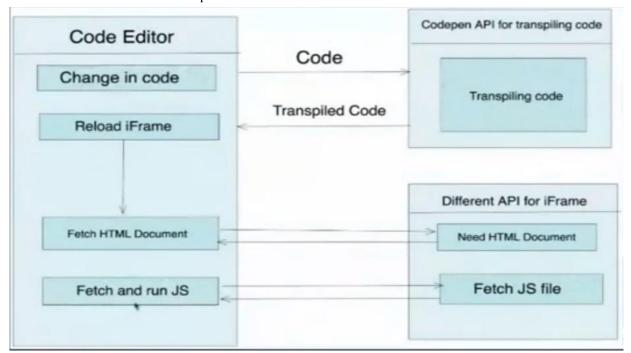
**CSS:** stands for Cascading Style Sheets. It describes how HTML elements are displayed on the screen, paper, or in other media. It can control the layout of multiple web pages all at once and saves a lot of work. External stylesheets are stored as CSS files.



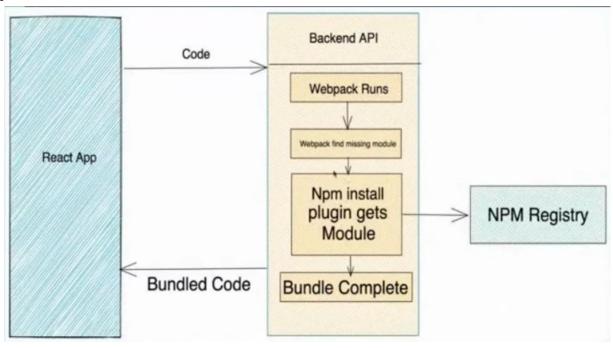
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**JavaScript:** is a scripting language, primarily used on the Web. It is used to enhance HTML pages and is commonly found embedded in HTML code. JavaScript is an interpreted language. Thus, it doesn't need to be compiled. JavaScript renders web pages in an interactive and dynamic fashion.

**React:** is a JavaScript library for building user interfaces. React is used to build single-page applications. React allows us to create reusable UI components.



#### Option 1

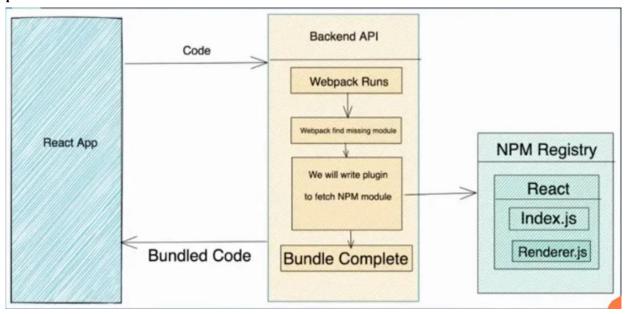




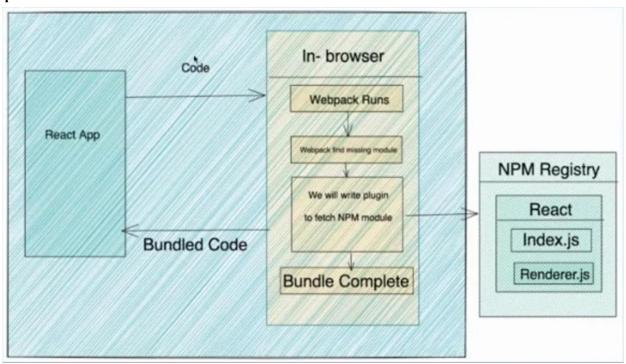
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#### Option 2



#### Option 3



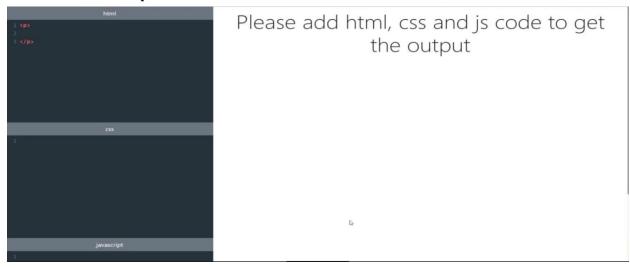
III. RESULTS

After working on all the methodology, the result, we got is a code editor which complies the HTML CSS and JavaScript codes. Some of the samples of working are mentioned below



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#### First screen when we open the editor



#### After adding the code



### Hello Youtube



# Hello Youtube welcome here!

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#### IV. CONCLUSION

A source-code editor can check syntax while code is being entered and immediately warn of syntax problems. A few source-code editors compress source code, typically converting common keywords into single-byte tokens, removing unnecessary whitespace, and converting numbers to a binary form. Such tokenizing editors later uncompress the source code when viewing it, possibly pretty printing it with consistent capitalization and spacing in this project, we've created a single screen for students to get edit and run their programs in single screen without switching the screen for different languages of front end. We have used HTML, CSS, JS and React.

#### V. REFERENCES

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