Patuakhali Science and Technology University

Project Proposal On

Online Code Editor

Course Code: CIT-220

Course Title: Web Programming Project

Submitted By

Name: Mehedi Hasan Rabbi

ID: 1802052

Reg. No: 08462

Level: 02

Semester: 02

Submitted To

MD. Mahbubur Rahman

Assistant Professor

Department of

Computer Science and Information Technology

Faculty of Computer Science & Engineering

Patuakhali Science and Technology University

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Project overview: For any programming, geek code editor is one of the most important tools. Following this strategy, there are many code editors and IDE (Integrated Development Environment) are developed. This software varies in different operating systems like Windows, Linux, macOS also mobile operating systems like Android and iOS. Nowadays the internet is easier to access and anyone who uses a pc or a mobile phone can access the web. If someone's devise is not powerful enough to run this code editor or IDE so it will be a better option to use an online code editor to run and edit our code.

Objectives: The major objective of this project is to write or develop the code without using any type of external code editors and IDE.

Working procedure: Firstly, one has to go to the website of that online code editor. Next, sign in/signup to the website (optional). But it will be easier for the user to use online code editor after sign in. And finally using this online code editor is the same as an ordinary code editor.

Features:

- A very common feature in code editors, syntax highlighting can be used to improve the readability and context of code, and also help you find errors.
- Lets you to see how a webpage will look like in the same code editor window that you're working in (as opposed to going back and forth between the code editor and the browser).
- Lets you make the code bigger or smaller.
- If you're working on more than one file at once, are you going to open a new window for each file? No need to! With tabs you can view as many files in one window as you want and each file will

be opened in a separate tab.

- The more complex your code, the harder it will be to keep track of. With code block highlighting, the code editor informs you where a block of code begins and where it ends.

Requirements: As the functional requirements, currently we have indicated:

1. Development tools, Visual Studio Code and a sustainable environment for development.
2. The apache web server for deploying the application and establish the relational-database connections.
3. Feasibility analysis on result generation logic for implementation.
4. Different Compilers which will compile code of different type of programming languages.

Next Goals: Although this description is a simple collection of huge work. Hence a single developer would not be able to deploy or handle everything in a limited time. So, our next target is to add web development tools like HTML, CSS, and JavaScript so one can write code in the browser and see the front-end design. Also, adding some graph visualization tools will be beneficial for a programmer to increase their skill.