

The diagram consists of a large rectangular frame on the left and a smaller box on the right. The frame contains the text: `</ IDE {` on the first line, `For` on the second line, and `Beginners }` on the third line. To the right of the frame, there is a closing tag `/>`. The box on the right contains the closing tags `} /> [`. Lines connect the top of the frame to the top of the box, and the bottom of the frame to the bottom of the box.

```
</ IDE {  
  For  
  Beginners } />
```

</ Backlog

Presentation

Our app is an easy-to-use, beginner-friendly IDE tailored for writing, running, editing C/C++ files.

Our app has an intuitive design, a lot of interesting features which improve your quality-of-life.

Story

Our app is targeted to new coders, who want to explore the world of programming through a fun and engaging environment.

Our app actually makes C++ fun!

Features

Our app merges the best part of what you find in other IDEs, for a smoother and easier coding session! You can write code, edit files, run your code in C/C++, use an AI tool, autocomplete functions and many more!

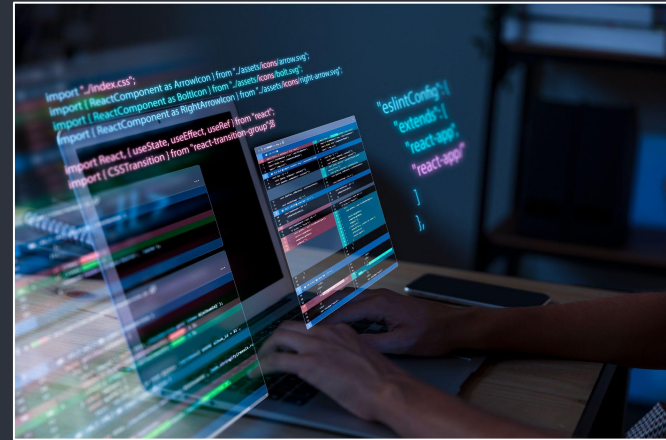


</ User Stories

We want our users to be able to:

1. Use our app easily
2. Be able to open, create, save files and folders
3. Write and edit text
4. Change the formatting of the text
5. Have syntax and error highlighting
6. Use an AI chatbot for improving code
7. Run and compile C/C++ code
8. Customize the editor
9. Open a terminal
10. Use already written frequent functions (QuickSort, Binary Search, DFS etc.)

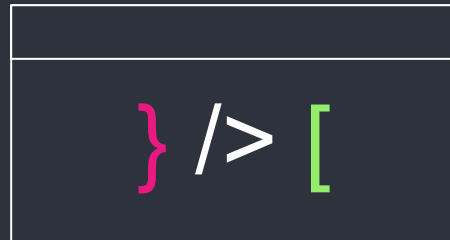
cpp>



</ Architecture

In the process of developing our app, we used:

- PYTHON 3.12.2
- LLVM Compiler Infrastructure
 - ◆ For Clang, Clangd
- Language Server Protocols
 - ◆ For autocomplete, syntax errors etc.
- PyQt5 Framework
 - ◆ For the overall implementation of the app



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</ Interesting Aspects

Already Written Functions

Our app offers our users the ability to use pre-written (by experienced programmers!) frequently-used functions and data types - like Binary Search, Stacks, DFS.

Funky Syntax Highlighting

Done with RegEx, our syntax highlighting is fun and visible and we plan on making it fully customizable.

Intuitive File System

Our users can open folders and files in multiple tabs.

Autocomplete

Written through a series of notifications sent from and to the Language Server, which are then interpreted.

</ Difficulties

/> **

File System

The difficulty laid in the synchronisation of the files - we had to verify their saved state, select their path, matching the methods among them.

} /> [

LSP Integration

The difficulty laid in researching the best way to implement these features and in synchronising the notifications with the app.

</ What's left?

- AI Chatbot Implementation
- Design Implementation
- Bug Fixing
- Automatic Tests
- Customizability



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</ Thanks!

Do you have any questions ? :)

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GitHub

} /> [

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