PROJECT TITLE: Learning C++ made easier

INTRODUCTION

When someone starts learning a programming language they struggle to grasp the knowledge and mechanisms of that particular language, unless they have prior experience with a similar language. In today's world high level languages have hugely overtaken low level languages as a result most people begin with the former set of languages. This makes the transition from high to low level languages quite a challenging task but the opposite is not true.

GOALS:

- In this project, I would like to build a website which helps the user learn the basics of **C++** programming.

BENEFITS TO THE USER:

- Get to learn one of the most famous low level programming languages that has its influences in various modern programming languages.
- For a beginner, it can be seen as a first step for becoming a programmer.
- For someone transitioning from high to low level language, it will be helpful to see the similarities and differences.

EXPECTED FEATURES

- Responsive website.
- Visually appealing.
- Interactive quizzes to gauge to knowledge gained by the users.

Market Survey

- **GeeksForGeeks**: One of the most prominent Computer Science website, allowing the users to learn a variety of different courses, test their programming skills and prepare for interviews. The site has a lot of material to learn a lot of programming languages.
- **FreeCodeCamp:** It is a self-learning website which allows students to learn through examples. They have a lot of material to learn front end web development related concepts.
- **LearnCPP:** It is an excellent website for learning C++ concepts for all levels of programmers.
- **CodeAcademy:** Learners can choose to learn a lot of computer science related concepts curated in a user-friendly manner.
- **TutorialsPoint:** Provides a lot of tutorials for a variety of languages and concepts.

All the above mentioned websites except FreeCodeCamp teach C++ from a basic to advanced levels and do a good job at maintaining the website and curating the content.

References

- www.geeksforgeeks.org/c-plus-plus/
- learn.freecodecamp.org
- www.learncpp.com
- www.codecademy.com/learn/learn-c-plus-plus
- www.tutorialspoint.com/cplusplus/