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Learn2Code Website Report

Everybody should learn to program a computer because it teaches you how to think." - Steve Jobs. Coding helps us to improve our creativity, communication, and critical thinking skills. Nowadays, there are many resources that provide coding knowledge, but few give a platform to practice that knowledge. Learn2Code is a website that offers students from African Leadership University different quizzes to practice their programming skills. The report is going to go through the design, quiz implementation, and plans of the website.

Web design is the first process of creating an attractive website. WireframePro is an online platform used to design Learn2Code. The design includes forms, buttons, colors, images, and navbar of which altogether create an excellent look and feel of the website. The target audience is both girls and boys who are starting their coding journey. So, the website color, blue, was chosen to accommodate the target audience. The form helps students to get support directly hence making the website reachable and convenient. In making the content engaging, buttons (login, signup, submit, and start quiz) were used. Also, the website has images that not only make customers stay longer on the website but also understand the website mission. Therefore, Learn2Code website is user-friendly, visually appealing, and aesthetically pleasing.

The development follows after designing the website. The languages used to develop Learn2Code are HTML5, CSS3, PHP, and JavaScript. When building the quiz, an online tutorial by WebShala on Youtube was a starting point for making a successful quiz. At the moment, the quiz gives five questions to a student and provides feedback when the chosen option is wrong. JavaScript, HTML5, and CSS3 are languages used in which JavaScript plays a big part in making it work. The javascript fundamentals used are variables, loops, functions, and If statements. Therefore, languages used to develop the website such as JavaScript create a dynamic and interactive user experience for the user.

Lean2Code plans to store scores for students and track student progress. To be able to collect scores and track students' progress, a database is needed. So, SQL relational databases like MySQL will help to create and manage the database. In each database, we will have normalized tables to store students' names, email addresses, and scores. Each time, the student scores change, it will directly update in the database. To successfully store the score, we will also need to build a login system using MYSQL and PHP to keep students score with their respective names and emails. By storing scores and tracking progress, we hope to give students a certificate at the end of each quiz completion.

In conclusion, the Learn2Code website has a purpose of bridging the gap of insufficient practice questions for students learning to program. Designing, implementation, and testing were the steps used to create the website. In the future, we plan to keep score and track students progress by creating a database. We aim to give students questions that make them better programmers.