FACULTY OF BUSINESS AND MANAGEMENT

ACADEMIC SESSION: MAY-AUG 2023

FBF1163: FUNDAMENTALS OF PROGRAMMING

FINAL PROJECT

DEADLINE: 20/07/2023 6:00PM

Date: 19/07/2023

LECTURER: Ms. Zarwina binti Yusoff

Group 8: Geographic Quiz App

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Introduction

The **Wablo** Geography Quiz Application is a user-friendly educational program aimed at kindergarten students, teachers, and parents. Developed using Python programming language and Tkinter module for graphical user interface (GUI), the application offers an engaging and interactive experience for young learners to explore and test their knowledge in the field of geography. The program is designed with simplicity and ease of use in mind, providing a MCQ (Multiple Choice Question) quiz format that aligns with modern learning approaches suitable for young students.

The **Wablo** Science Quiz Application aims to foster an enjoyable learning environment where students can enhance their understanding of geographical concepts, while teachers and parents can actively participate in the educational journey of their students. Additionally, the application facilitates efficient question management for teachers by using a JSON file to store and organize quiz questions. This enables teachers to easily add, delete, and edit questions, promoting continuous improvement and customization of the quiz content.

Objective of Application

The main objective of the **Wablo** Geographical Quiz Application is to provide an interactive and educational platform for kindergarten students to learn and explore geography in an engaging manner. The application aims to achieve the following specific objectives:

1. **Geographical Learning:** The application seeks to impart geographical knowledge to young learners through a series of carefully crafted multiple-choice questions. By presenting questions in a fun and interactive manner, the program encourages students to expand their understanding of various geographical topics, such as continents, countries, capitals, landmarks, and more.

2. **User-Friendly Interface:** The program's GUI, built using the Tkinter module, offers an intuitive and user-friendly interface suitable for kindergarten students. The simplicity of the interface ensures that young learners can easily navigate through the application, enabling a seamless learning experience.

3. **Teacher Involvement:** The application recognizes the importance of teacher involvement in the learning process. By providing a JSON file to store quiz questions, teachers can efficiently manage, customize, and update the quiz content. This feature empowers teachers to tailor the quiz according to their students' needs and adapt the questions over time to enhance the learning experience.

4. **Interactive Feedback:** Upon completing the quiz, the application offers immediate feedback to students in the form of a "Quiz Results" window. This window congratulates the student, displays the obtained score, and provides the option to view the "Marking Script" window. The "Marking Script" window showcases the details of each question, the correct answer, and the student's selected answer, fostering a deeper understanding of the quiz outcomes.

5. **Memorability:** To create a memorable experience for young learners, the application has been branded as "Wablo." The chosen name adds a personal touch to the learning process and enhances the program's identity, making it more relatable and appealing to students.

The **Wablo** Geography Quiz Application targets kindergarten students, teachers, and parents, with the aim of facilitating an enjoyable and effective learning journey for all users.
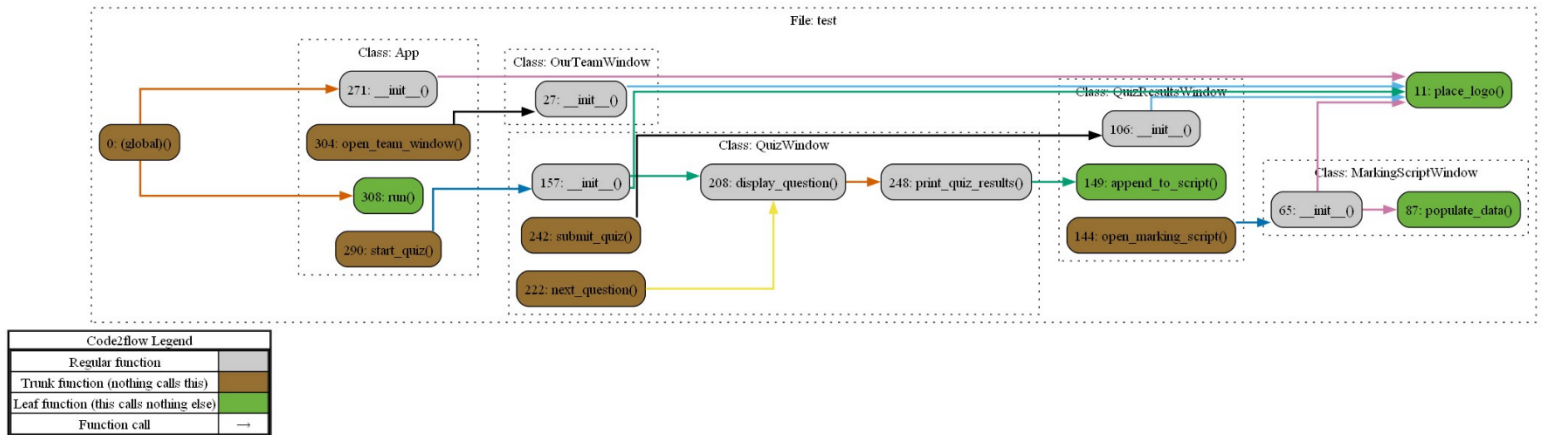
Target User

The **Wablo** Geographical Quiz Application caters to the following target users:

1. **Kids (Kindergarten Students):** The primary users of the application are kindergarten students who are eager to learn about geography in a playful and interactive way. The user-friendly interface and MCQ quiz format are specifically designed to engage and captivate young learners, promoting a positive and enjoyable learning experience.

2. **Teachers:** The application recognizes the pivotal role of teachers in guiding and nurturing young minds. Teachers can use the program to introduce geographical concepts to their students and utilize the JSON-based question management system to customize the quiz content according to their teaching objectives.

The **Wablo** Geographical Quiz Application strives to provide ease of use and accessibility to its target users, ensuring a valuable and memorable educational experience for kindergarten students and facilitating effective teaching and engagement for teachers and parents.

Program Flowchart

Kindly Zoom In to see clearly (Also this is a general flowchart showing how all classes and functions are connected together

Screenshots of Program

Image 1: Main Window
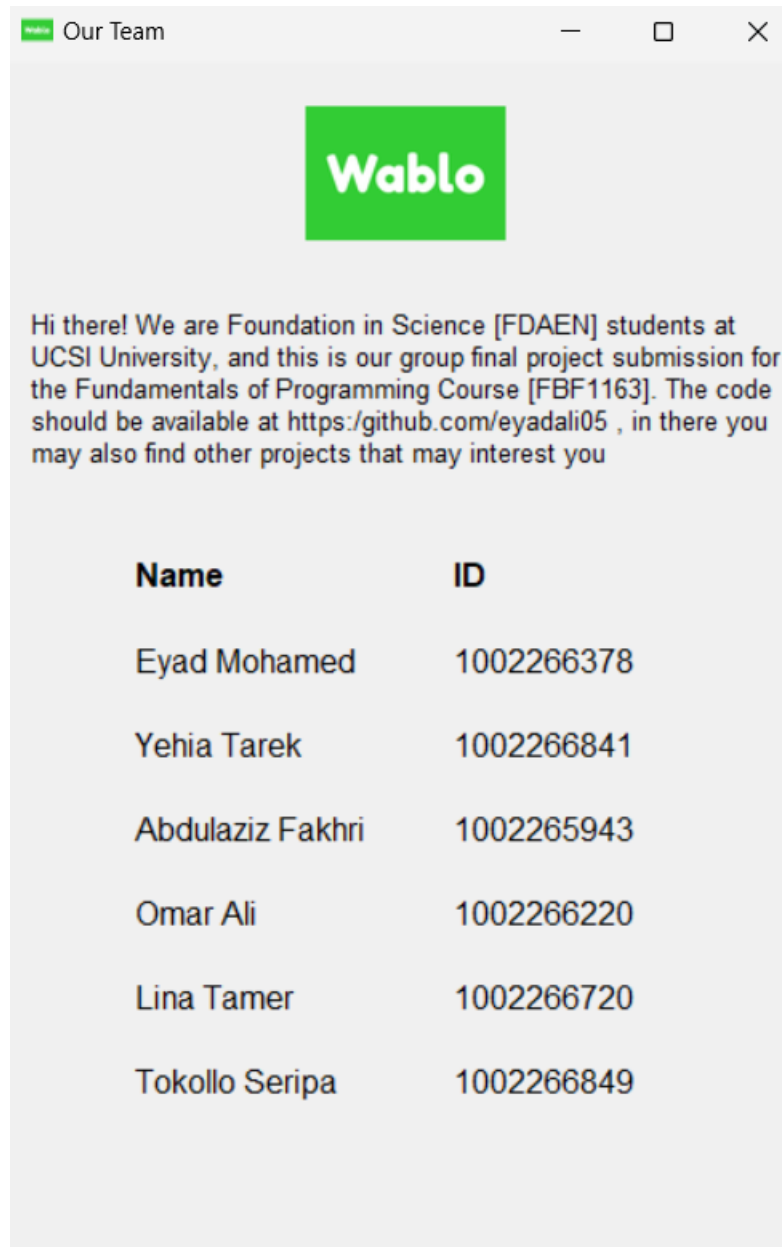
Our Team

Wablo

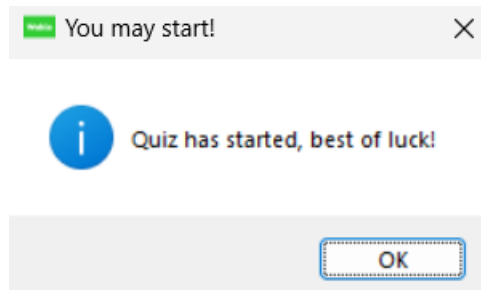Hi there! We are Foundation in Science [FDAEN] students at UCSI University, and this is our group final project submission for the Fundamentals of Programming Course [FBF1163]. The code should be available at https:/github.com/eyadali05 , in there you may also find other projects that may interest you

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Image 2: Our Team Window
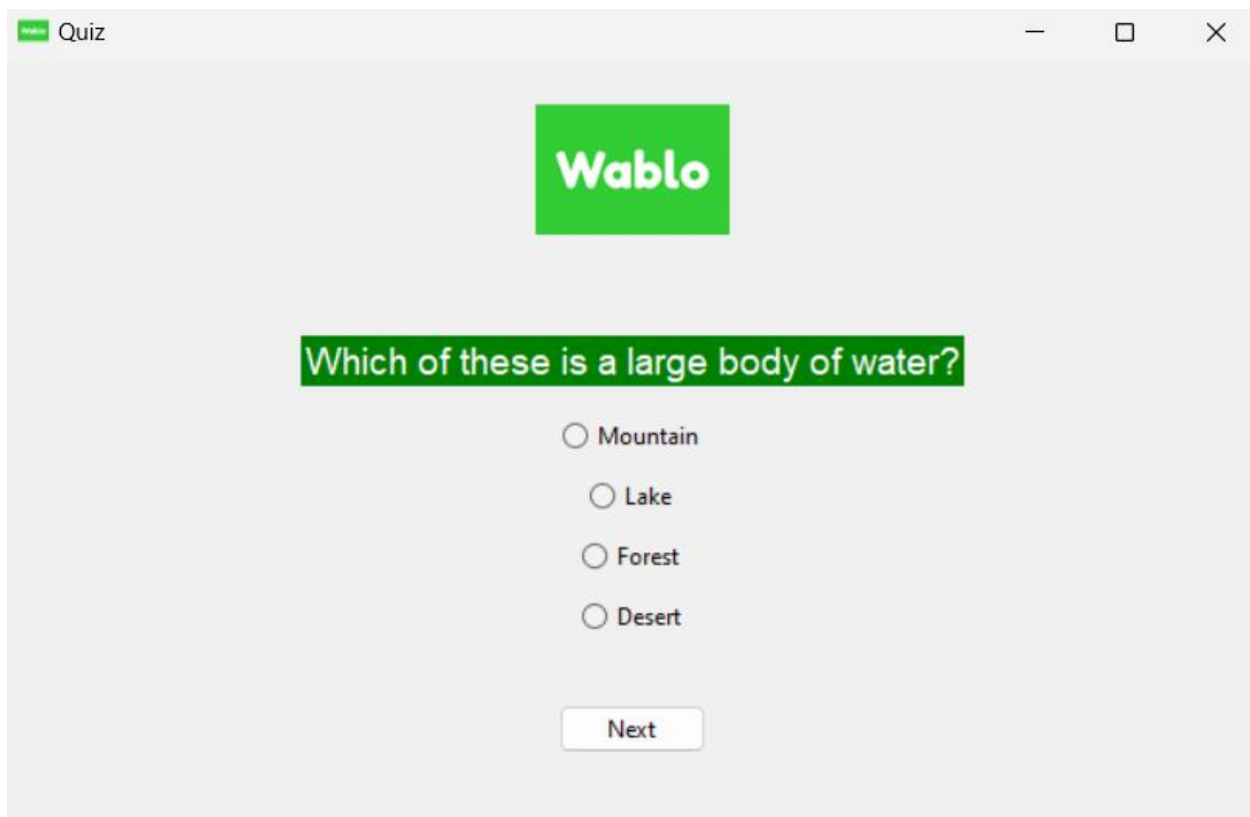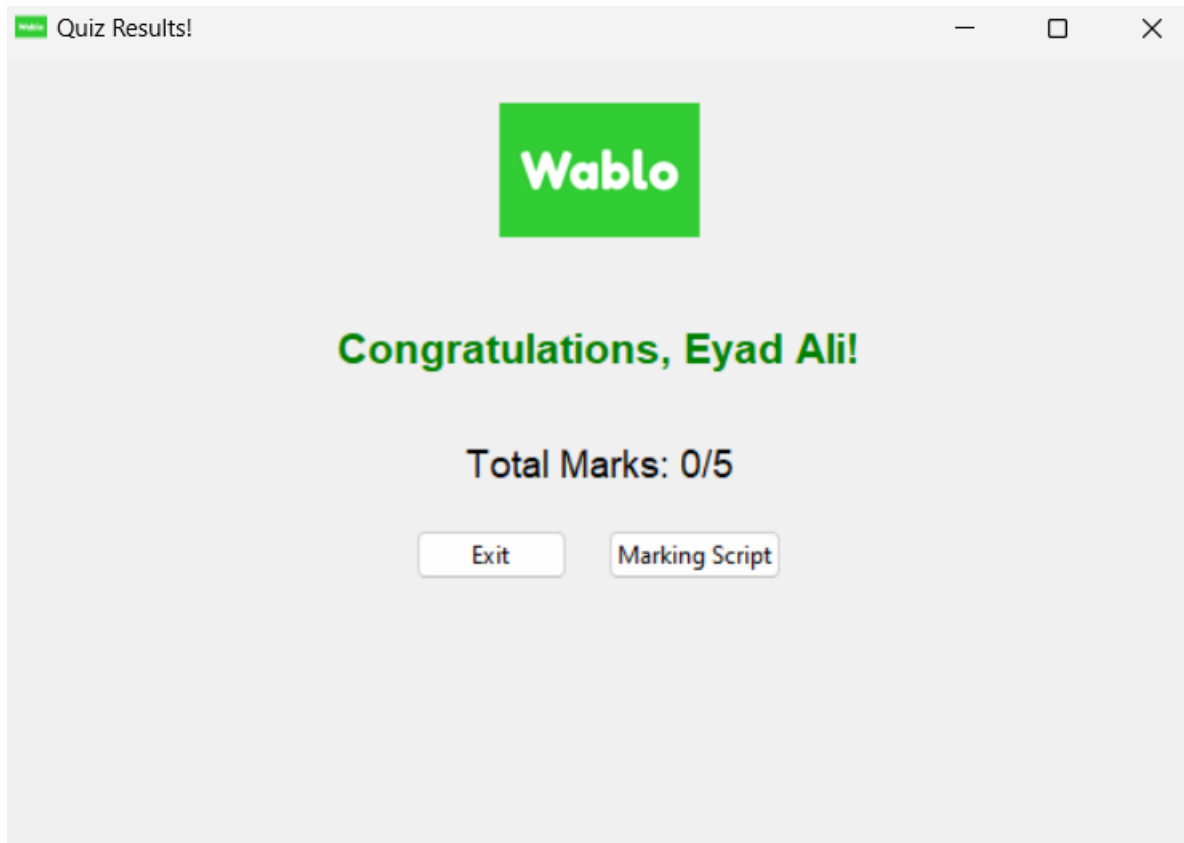
Image 3: Quiz Start Notice Window
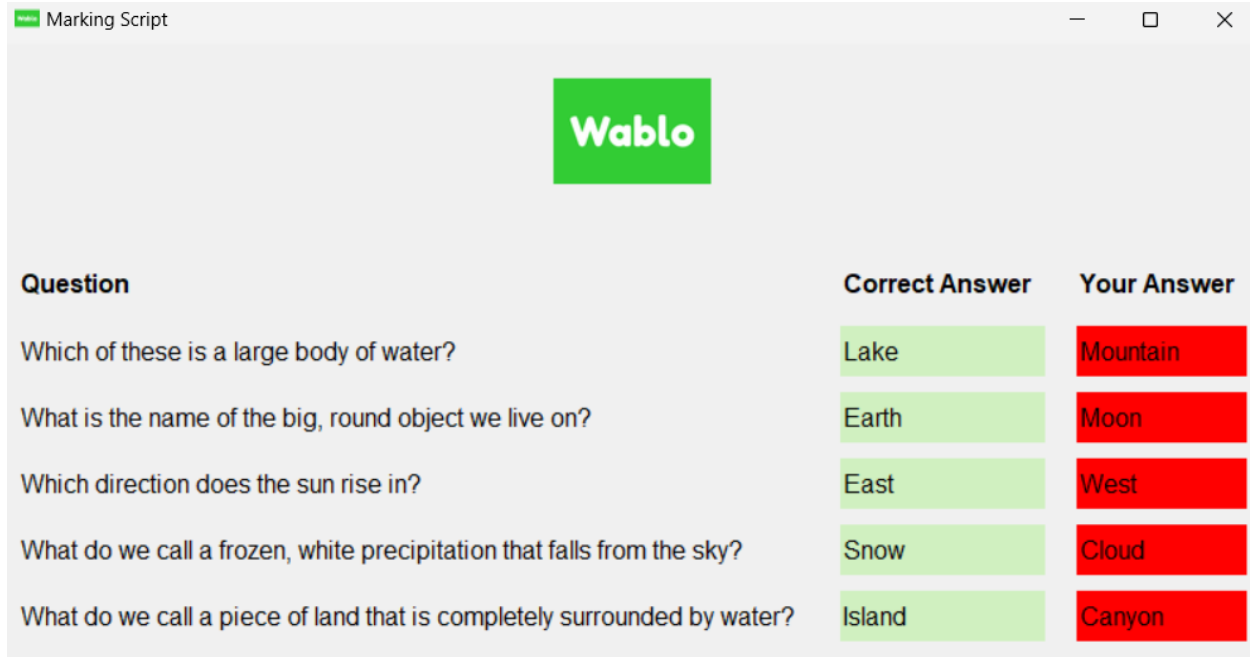

Image 4: Quiz Window (One out of 5)

Image 5: Quiz Results Window

Image 6: Marking Script Window