UNIVERSITY of INFORMATION TECHNOLOGY and MANAGEMENT
in Rzeszow, POLAND

Faculty of Applied Information Technology
Field of Study: Information Technology
Specialty: Computer Science

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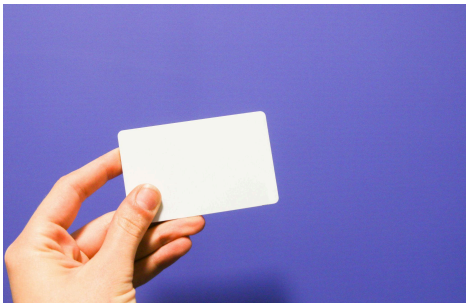
Simple Quiz App

Rzeszow 2025

Introduction

Purpose of the Application

This **console-based quiz application** is designed to help users **test and reinforce their knowledge**. It presents **interactive quizzes** where users answer questions to **enhance memorization and long-term retention**.



This console app prioritizes simplicity and clarity with a basic interface to keep you focused. In the future, it might include a library of pre-built quizzes in various languages to help new users get started quickly.

It's a valuable tool for language learners, students preparing for tests (like TOEFL, IELTS, or DELF), and even professionals improving domain-specific vocabulary. Its offline-first approach means you can learn anywhere, anytime. The app's modular structure allows for future enhancements like audio support or integration with online dictionaries.

ETS TOEFL

IELTS®

Authorized Independent Center

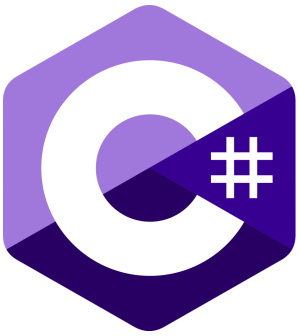
FRANCE EDUCATION INTERNATIONAL | DELF

Technologies Used

Justification for Chosen Technology Stack

1. Programming Languages

   C#: The application is developed using C#, a versatile, object-oriented language ideal for building desktop applications.



2. Framework

   .NET: The application runs on the .NET platform, which provides the runtime environment and a wide set of libraries for tasks such as file handling, data storage, and console input/output. .NET ensures cross-version compatibility, performance, and scalability for desktop applications, even in a console-only context.

3. Development Environment

   Visual Studio: The development is primarily done using Visual Studio, a powerful integrated development environment(IDE) tailored for C# and .NET applications. It provides robust debugging, code completion, and project management features, allowing for efficient development and testing.

4. Version Control

   Github: For version control and potential collaborative development, GitHub will be the platform used. Github ensures that changes are tracked efficiently, and it also provides a central repository for storing and managing the application's codebase.

Current Restrictions and Future Milestones

The current version of the application provides the essential core functionality required for its purpose. However, there are a few limitations that could be addressed in future versions:

- **Lack of User Authentication:**

  The application does not include user login or authentication features. As a result, it does not support personalized experiences, data synchronization across devices, or multi-user access.

- **Local Data Storage:**

  All user data is stored locally on the device, which restricts features like data backup, synchronization, or remote access. In future versions, cloud storage and synchronization across devices could be introduced to enhance usability.

- **Limited Customization:**

  The application provides basic functionality but lacks advanced customization options. For example, there may be no support for personalized settings or preferences, limiting the user's ability to tailor the app to their needs.

- **Basic Features Only:**

  The current version provides the foundational features necessary for the application to function, but more advanced functionality, such as notifications, analytics, or enhanced user interactions, has not yet been implemented.

Our targets and aspired milestones consist of:

- **User Authentication:**
  Implementing user accounts with cloud storage could allow for personalized experiences and syncing data across multiple devices.

- **Advanced Features:**
  Incorporating additional features like notifications, detailed progress tracking, or reporting could significantly enhance the application's functionality.

- **Customization Options:**

Introducing more settings for users to personalize the interface, functionality, or user experience could make the application more versatile.

- **Cross-Platform Support:**

  Expanding the application's reach by supporting multiple platforms, such as mobile devices or web browsers, could broaden its audience and usability.

Conclusion

This project has been an excellent opportunity to develop a functional desktop application, focusing on delivering core features that fulfill the primary objectives. While the current version of the application is basic, it lays a solid foundation for future development. Key functionality has been successfully implemented, and the project has provided valuable insights into the process of building software applications from scratch.

Through this project, I have gained a better understanding of application development. It also reinforced the importance of focusing on core features, ensuring that they are stable and user-friendly before adding additional complexity.

Looking forward, the project has strong potential for growth. With the addition of more advanced features and improvements, the application can be expanded to meet the needs of a wider user base and provide a more comprehensive experience.