Quiz Management System

Objective

The objective of this project is to design a menu-driven Quiz Management System using C programming that allows users to create, manage, and evaluate quizzes by applying structures and file handling concepts.

Project Overview

The Quiz Management System is a console-based application developed in C. It enables users to store quiz questions, attempt quizzes, and calculate scores efficiently. Structures are used to organize question data, and file handling is used to ensure permanent storage of questions and scores.

Key Features

• Add new quiz questions
• Display all stored questions
• Attempt quiz and calculate score
• View previously recorded scores
• File-based storage for questions and scores
• Simple text-based interface

Structure Design

A structure is used to store quiz details such as question number, question text, four multiple-choice options, and the correct answer. This approach improves data organization and simplifies file operations.

Program Flow

The program starts by displaying a menu. Based on the user’s choice, a switch-case statement calls the appropriate module. The menu continues to repeat until the user selects the exit option.

Modules Description

Add Question

This module allows users to add new quiz questions and store them permanently in a file without overwriting existing data.

Display Questions

This module reads all stored questions from the file and displays them along with their options.

Take Quiz

This module presents questions to the user, accepts answers, compares them with correct options, and calculates the final score.

View Scores

This module displays all previously recorded quiz scores stored in a separate file.

File Handling

quiz.txt is used to store quiz questions and scores.txt is used to store quiz scores. File handling ensures data persistence.

Conclusion

The Quiz Management System effectively demonstrates the use of structures, file handling, functions, and menu-driven programming in C. It provides a strong foundation for building advanced assessment systems.