Final Project Report

it is a console-based quiz system developed in C++. The system provides features for students and teachers to take and create quizzes respectively.

The system has four main classes: Question, Quiz, Student, and Teacher. The Question class represents a single question with its options and correct answer. The Quiz class is used to create a quiz by selecting a set of questions from the available ones. The Student class is used to take a quiz, and the Teacher class is used to create quizzes by adding questions.

The main class in the system is generalMenu, which is responsible for the overall flow of the system. The start() method of the generalMenu class allows the user to login as a teacher or student by entering their respective IDs and passwords. Once logged in, the teacher can create quizzes and view analytics, while the student can take quizzes.

The system stores the quiz and question data in CSV files, which are read and written using file input/output operations. The system also includes error handling to check for invalid inputs and to handle file I/O exceptions.

It starts from main menu where software give different options ,if user selects login then in ask whether he is teacher or student then if he is teacher he takes id and password and check it from csv file, if it is same ,software let him in otherwise not,same goes for teacher.

Once they are entered there all data is fetched from csv file and stored in class of their. Then for teacher he is given menu with diiferent options like like create quiz check attendace and marks and etc.if he selects create quiz .quiz class object is created where new menu appears and take all necessary information from teacher and save them in csv file named Quiz.and object of question is also created taking and fill all members of it.

Then teacher can log out,And student can login.

Once student get login his all necessary details are filled in his class .then he is aksed different questions like wanna appear for quiz or not and etc.

If he selects quiz ,software check whether his course quiz is available or not, If available .he is shown screen where all basic information about quiz is there and then ask him to press enter to start quiz.quiz starts and end on time.his marks are stored in csv file and his attendace is marked on that quiz .

Later quizanalytics uses marks csv file to create bar chart and show how students are performing in every expect of course.

In conclusion, the Console-based Quiz System is a helpful tool for teachers and students to create and take quizzes, respectively. The system is designed with various features such as error handling, login system, and CSV file storage. Teachers can create quizzes with ease and view analytics to check student performance, while students can take quizzes and view their marks. Overall, this system can be an excellent addition to any educational institution as it makes the quiz-taking process more efficient and streamlined.