

Technical Specification

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A. INTRODUCTION

1.1 Purpose

- Quiz Manager is for offer better flatform to perform managing questions and playing quiz.

1.2 Intended Use

- This application is for user who want to make quiz and play and manage each question.

B. OVERALL DESCRIPTION

2.1 User Needs

- For managing quiz, user needs get a certain question which user want to manage. User should be able to search question they want and CRUD (Create, Read, Update, Delete) questions.
- For playing quiz, users want to choose topic they want and want to get an automatic correction of their answers.

2.2 Assumptions and Dependencies

- There are some static formats of XML file.

In question object, difficulty should be 'XX/10'. Choices should be String format which is connected by comma. For example, 'c1,c2,c3,c4' (without spaces).

- Available answer is just one specific string. If it is not equal with user's answer, it is considered to be wrong.
- No dependencies.

C. SYSTEM FEATURES AND REQUIREMENTS

3.1 Functional Requirements

- This application is executed based on window circumstance with javaFX system.
- This application needs to import and export information with file. Text file(.txt) and XML file(.xml) are needed.

3.2 System Features

<Main Features>

- Edit: Edit question details and remain the changes with XML file.
- Delete: Delete question from list and database.
- Add: Create new questions and save.
- Search by topic: Compare user entered string and questions' first topic and make new list view of searched result.
- Making quiz: Make a list of questions as a Quiz based on user choose topic.
- Correcting answers: Compare user answer and questions' answer and count how many questions user got.

<Additional Features>

- File Open: Read data from new XML file and make a new list of questions.
- File Save: Write data to XML file using current list of questions.

- Save Result: save result of a quiz and username to text file.
- Export quiz: save the contents of questions of a quiz to text file.
- Login: To move to managing quiz, check if user's id and password is valid or not.
- Restart, Exit, Help, Result.