

# TECHNICAL GUIDE - QUIZ MANAGER

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## Requirement

IDE: Eclipse JEE 2018-19

Database: H2 Console

## Project Description

In this project we have implemented following features:

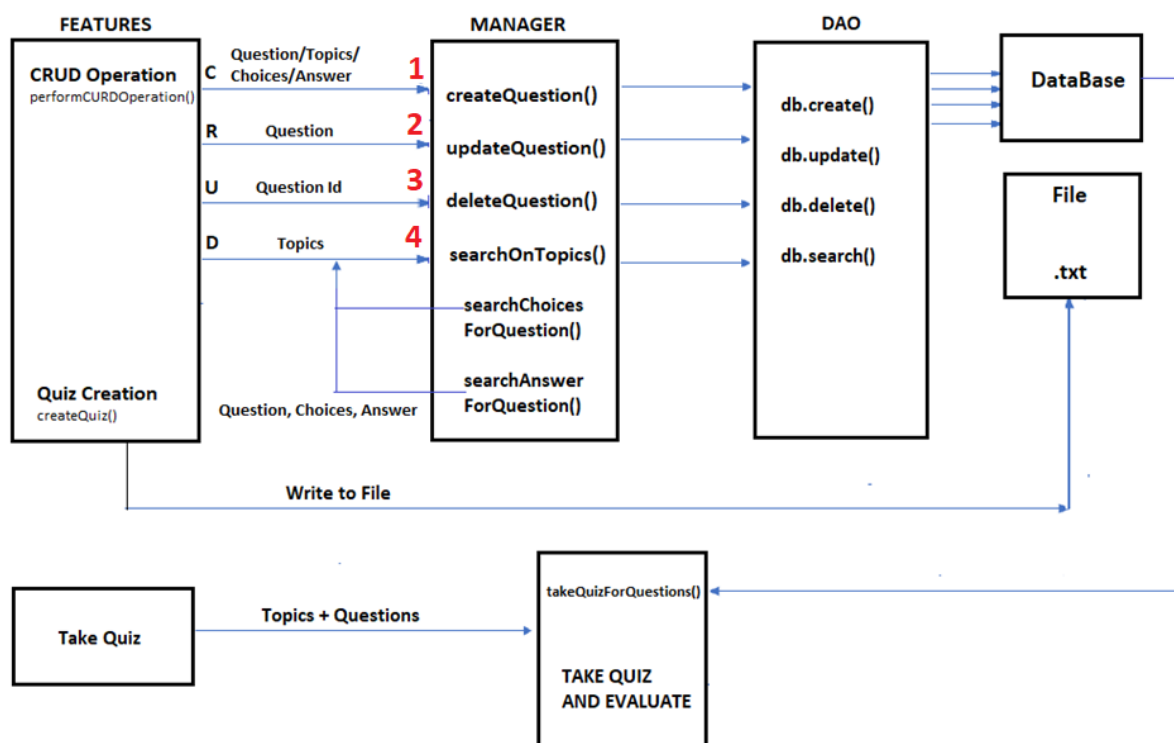
Teacher/Admin Login:

1. CRUD Functionality
2. Generating Quiz based on topics and saving it as .txt file in 'D:\'

Student Login:

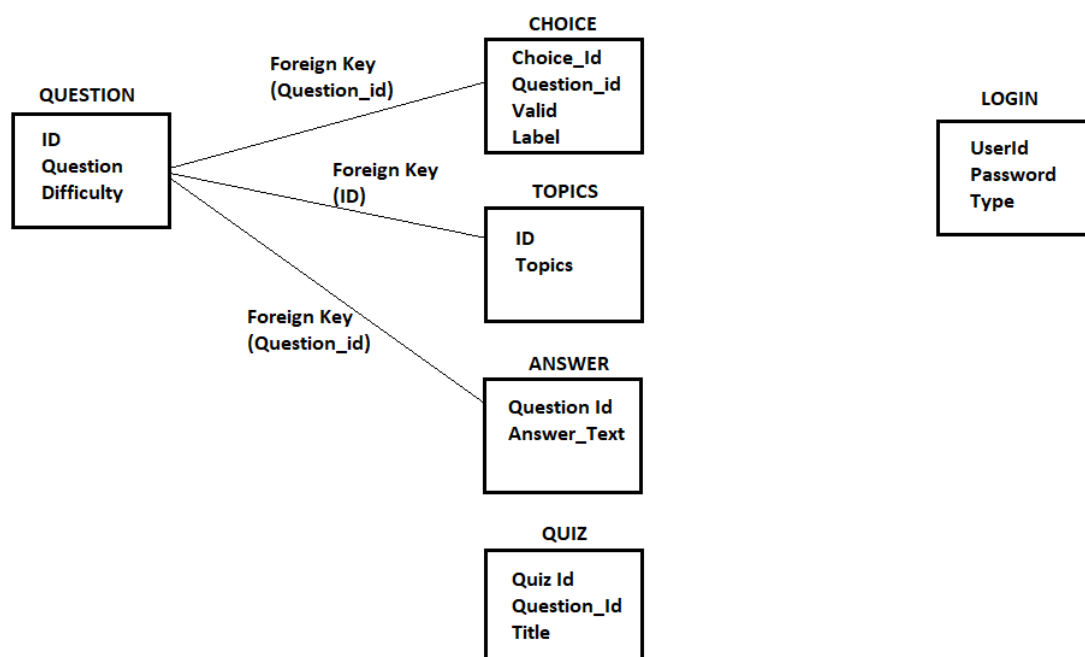
1. Quiz Set will be available to students based on the topics selected.
2. On Submission of Quiz, grades will be calculated and displayed on screen.

## Architecture



1. createQuestion() implements two separate methods for MCQ and open question named as createOpenQuestion() and createMcqQuestion() respectively.
2. updateQuestion() method uses displaySerchedQuestionOnTopic() to list all the questions of specific topic entered by user. Then db.update() updates the Question, Difficulty based on QuestionId.
3. DeleteQuestion() method implements displaySerchedQuestionOnTopic() to list all the questions of specific topic entered by user. Then db.delete() deletes the Question based on QuestionId.
4. displaySerchedQuestionOnTopic() is used to implement all list all the questions of specific topic entered by user.

## Schema



## SQL Queries

```
CREATE TABLE QUESTION(  
ID INT auto_increment PRIMARY KEY,  
QUESTION VARCHAR(255),  
DIFFICULTY int);
```

```
CREATE TABLE TOPICS(  
id int,  
FOREIGN KEY (id) REFERENCES QUESTION(id),  
TOPIC VARCHAR(255));
```

```
CREATE TABLE CHOICE(  
choice_id int auto_increment PRIMARY KEY,  
question_id int,  
valid BOOLEAN NOT NULL default false,  
FOREIGN KEY (question_id) REFERENCES QUESTION(id),  
LABEL VARCHAR(255));
```

```
CREATE TABLE ANSWERS(  
QUESTION_ID int,  
FOREIGN KEY (QUESTION_ID) REFERENCES QUESTION(id),  
ANSWER_TEXT VARCHAR(255));
```

```
CREATE TABLE QUIZ(  
quiz_id int auto_increment PRIMARY KEY,  
QUESTION_ID LONGVARCHAR,  
TITLE VARCHAR(255));
```

```
CREATE TABLE LOGIN1 (USERID VARCHAR(255) NOT NULL PRIMARY KEY , PASSWORD  
VARCHAR(255) NOT NULL, TYPE VARCHAR(255) );
```