

TECHNICAL SPECIFICATION

By

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As part of the
Java/OOP/UML course.

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1. Introduction

1.1. Project Background

This project is a console application for managing digital quizzes - preparation and execution. It is part of the Java/OOP/UML course.

1.2. Project Overview

In this project, user can login as a student, take a test and get their grades at the end of the quiz. In addition, user can login as a teacher, create questions and quizzes.

1.3. Project Scope

In Scope :

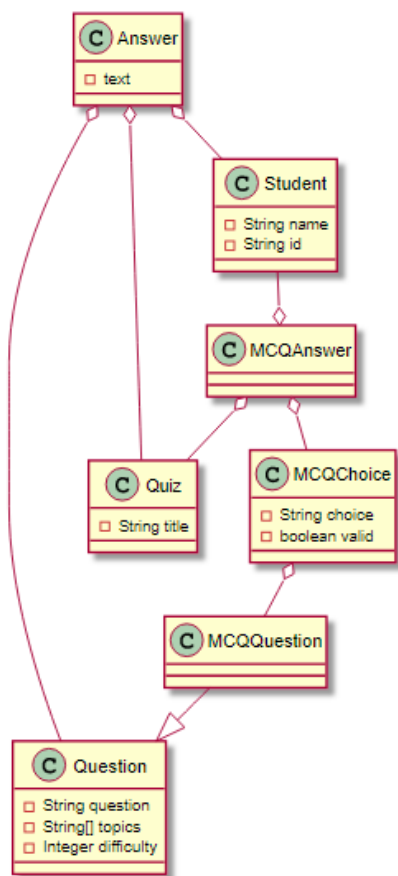
- Automatically assembles open question and multiple-choice quizzes based on difficulty level
- Automatically assembles MCQ quiz based on topics
- Auto-grading for the quiz
- Exporting of quiz questions to text
- Add new questions
- Update questions
- Delete questions
- Export quizzes to plain text
- Export quiz as pdf

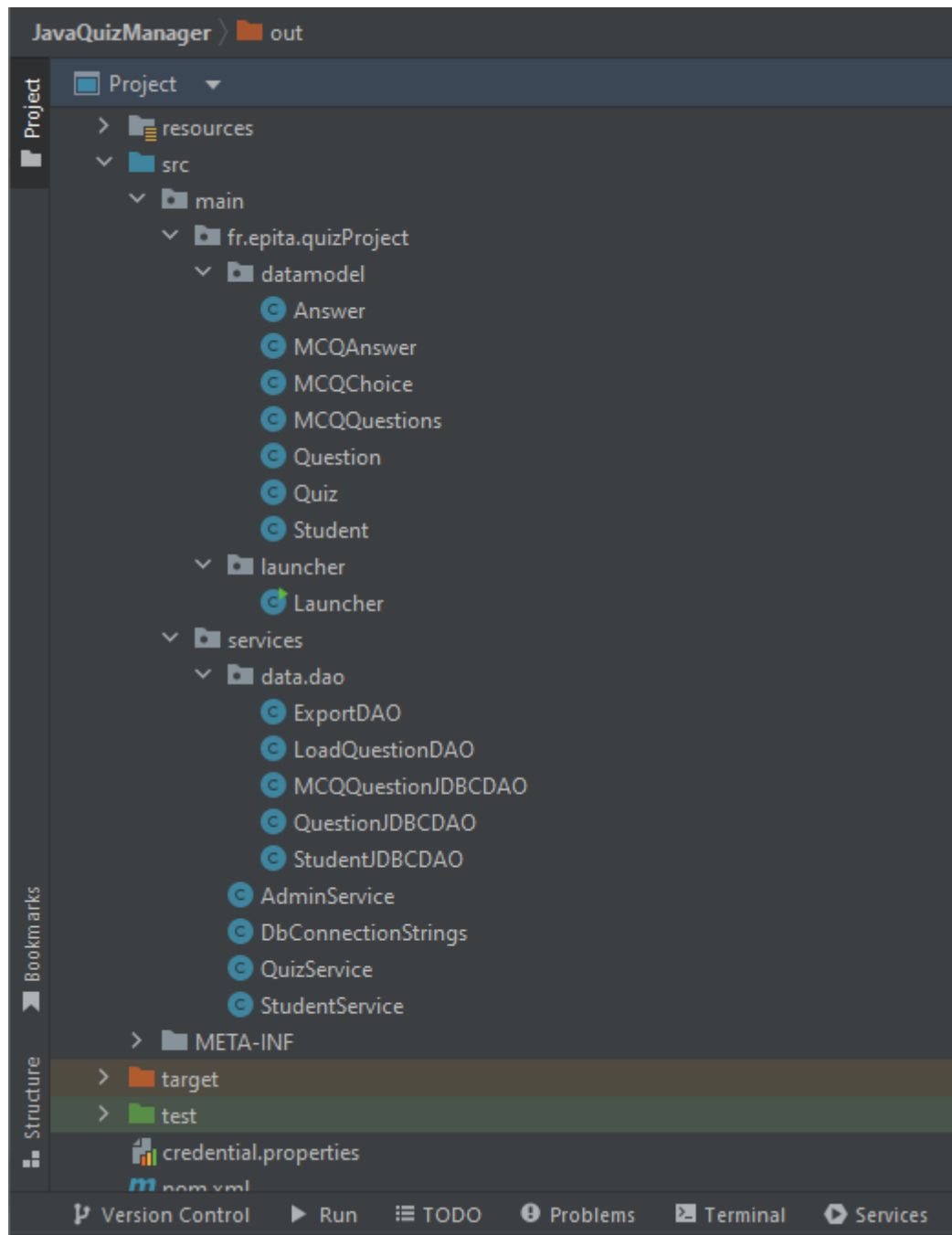
1.4. Project Dependencies

The project was developed and tested with Java 11 has a number of dependencies which includes:

- Posgres JDBC
- iText7
- iBatis JDBC

CLASS SPECIFICATION





BUSINESS LOGIC

1	Assemble quiz based on difficulty level with 1: easy 2: intermediate: 3: hard and display evaluation score alongside corrections.
2	Assemble quiz based on topics as specified by the user and display evaluation score alongside corrections.
3	Create new questions both MCQ and open
4	Export quiz questions in text and pdf format
4	Update questions
5	Delete questions based on topic
7	Search questions based on topics
8	Create new student to take quiz