

TECHNICAL SPECIFICATION DOCUMENT

Fundamental Java Project – Quiz Manager

Swati Khandare
(swati.khandare@epita.fr)

Table of Contents

Introduction	3
Requirement Specification	3
Admin.....	3
Candidate	3
Scope definition.....	3
Dependencies.....	3
Setup.....	3
Flowchart.....	5
UML diagram	6

Introduction

The project has two modules, Admin and Candidate:

Admin User: can perform create, search, delete and export operations on quiz and questions contained in them.

Candidate User: can take the graded quiz.

Requirement Specification

Admin

- Perform create, search, delete and export operations on quiz and questions
- Export quiz as PDF
- GUI

Candidate

- Choose quiz to participate based on topic and difficulty
- Get grade at the end of quiz
- Answer each question
- GUI

Scope definition

Topics within scope of project

- Create, Search, Delete and Export Quiz with MCQ questions
- Create, Search, Delete Questions in quiz
- Admin and Candidate module
- Auto Grading
- Export Quiz in PDF format
- GUI
- Segregation of Quiz based on topics
- Difficulty level Indicator
- Candidate registration
- Executable .jar file

Dependencies

Setup

- Install ODBC Driver for PostgreSQL driver
- Install Java 8

- Create tables in database (commands.sql)
- Add questions
- Configure itextPdf.jar
- Configure Javadoc.jar in build path
- Configure Junit4 for testcases

Software and hardware requirements

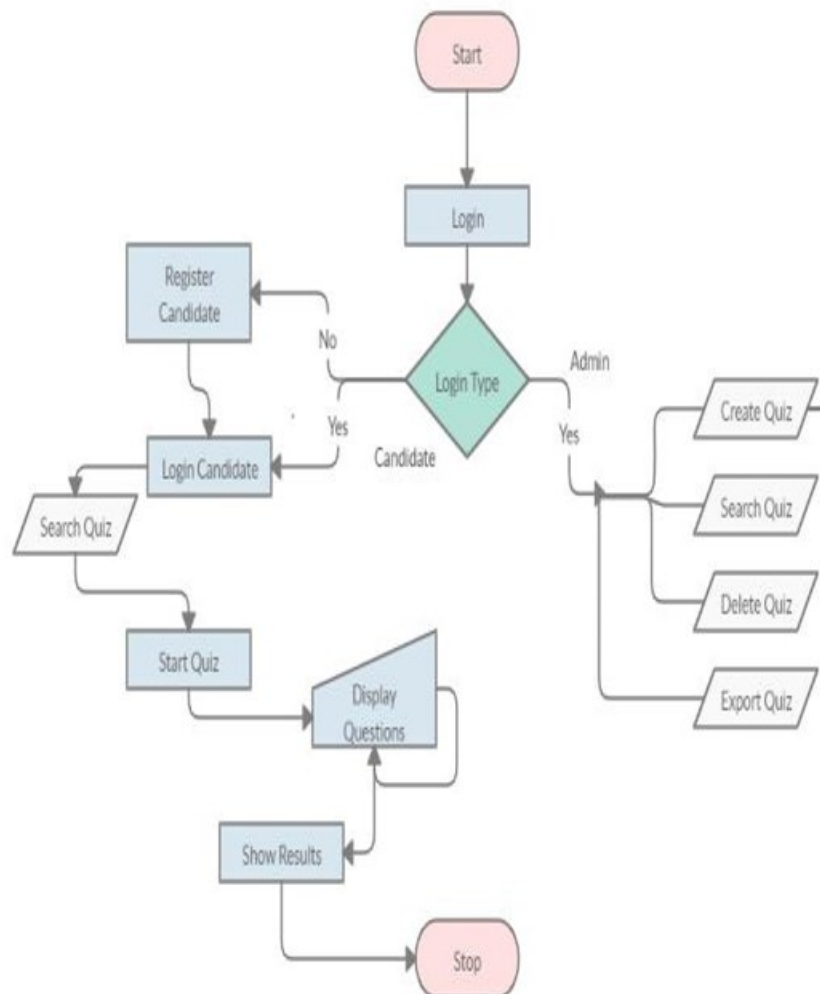
Software Requirements

Front End	JFrames
Backend	Java 8
Database	PostgreSQL DBeaver Console
Version Control	GIT
Testing	JUnits

Hardware Requirements

Hardware	Requirement
Operating System	Windows, Linux, Mac
RAM	Min. 256 MB
Disk space	Min. 500 MB
Processor	64 Bit, four core, 2.5 GHz min per core

Flowchart



UML diagram

