



Second term 1441/2020

Software Engineering (CS- 310)
BSCS- Section: 171

Project-Phase No: 00
Automatic Jobs Candidates Selection System (AJCSS)
(Proposal)

Submitted By

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Table of Contents

- 1. **Project overview:**.....2
- 2. **Project Description:**2
 - 2.1 *Main goals:*2
 - 2.2 *Main functionalities and characteristics:*2
 - 2.3 *Intended users:*2
 - 2.4 *Key usability goals:*3
 - 2.5 *Intended technology:*3
 - 2.6 *Challenges that we may encounter:*.....3
 - 2.7 *Team members:*4
 - 2.8 *Project Timeline:*.....5

1. Project overview:

The project aims to Simplify The process of recruiting Applicants and job seekers, as well save time and cost for hiring department.

2. Project Description:

2.1 Main goals:

- The main idea of the project is the Automation of the recruitment process.
- The Automatic Jobs Candidates Selection System (AJCSS) will simplify hiring process, save recruitment time, and help to choose the right candidates.

2.2 Main functionalities and characteristics:

AJCSS must provide the following functions to the users:

- **Jobs functions:**
 - Can **set up** the system.
 - Can **create** jobs.
 - Can **update** jobs data.
 - Can **delete** jobs.
 - Can **review** jobs data.
- **Candidates functions:**
 - Can **create** candidates.
 - Can **update** candidates data.
 - Can **delete** candidates.
 - Can **review** candidates data.
 - Can **apply** selection process on candidates.
- **Systems settings:**
 - **Set** selection lower limit threshold (percentage of passing).
 - **Set** interview type (basic, extended).
 - **Read** pre-stored data.
 - **Save** data after selection (jobs and candidates status).

AJCSS will have the following characteristics:

- **Setup** the jobs and candidates data.
- **Read** pre-stored jobs and candidates data from csv files.
- **Write** jobs and candidates data onto csv files after selection.
- **Save** jobs and candidates status (whether jobs are vacant or occupied, candidates have been employed or not) onto csv files.
- **Select/change** system's preferences and options in settings section.

2.3 Intended users:

- HR Manager (Admin).
- HR Member.

2.4 Key usability goals:

Beneficiaries from this project would be:

- HR Manager: They would setup the jobs that they need to fill with full potential.
- HR Member: They would perform the appointed tasks with less time and mistakes.
- It should be easy for the users to become familiar with and competent in using the user interface.
- It should be easy for users to achieve their objective through using the system.

2.5 Intended technology:

- **Desktop-Based application.** Works on the Windows platform.
- The project will be implemented using **the Java programming language.**
- **Java Standard Libraries that will be used: -**
 - # java.lang library.
 - # java.util library.
 - # java.math library.
 - # java.io library.
 - # javax.swing library for GUI Building.
- **Other Java Libraries:**
 - # OpenCSV: to write/read CSV Files
- **IntelliJ IDEA, NetBeans IDE and Eclipse IDE;** As a code helping tools.
- **To style the design of the project's GUI,** we may use helping plugins.

2.6 Challenges that we may encounter:

- Building the Graphical user interface (GUI).
- Defining the selection functions and percentage equations.
- Storing data using the preferred data structures.

2.7 Team members:

Name	Role	Experience	Skills	Profile
Sultan Attaf Al-Salmi	Coordinator Designer Documenter	Two Years Programming Experience	<ul style="list-style-type: none">- Team cooperative- Excellent with computer hardware- Excellent with Java	https://isultanz.github.io/Sultanz.github.io/
Abdulaziz Derham Asseri	Coder Documenter Implementer	Two Years Programming Experience	<ul style="list-style-type: none">- Hard worker- Excellent programmer- Team cooperative- Fast learner- Logical and Critical thinker	https://adnasseri.github.io/
Musaad Mubarak Alhammami	Coder Designer Documenter	Three Years Programming Experience	<ul style="list-style-type: none">- Professional coder.- Time management.- Thinking in Logical, Creative, Critical and Entrepreneurial ways.- Motivational person.- Fast learner	https://musaadtech.github.io/
Yasser Ahmed Almuhaideb	Designer Tester	Five Years Programming Experience	<ul style="list-style-type: none">- designing in photoshop- I can work in a team- I can learn fast- I got good English level	https://yassserahmed.github.io/yassser.github.io/

2.8 Project Timeline:

