

# **Advanced programming Project**

# **Career Guidance System**

### **Course Professor:**

Dr\Ahmed Ghozia

By

1-Fatma Ehab Abdallah Kamel [ID:2000276]

2-Aliaa Nabil Ali Moustafa [ID:2000249]

# **Section**

# **Project Description:**

The "Career Guidance System" is a Java console application designed to assist individuals, particularly those in the field of Computer Science and Engineering, in exploring various career tracks within the technology industry. The program provides information about different job roles, their descriptions, required skills, and average salaries.

### **Key Features:**

# Object-Oriented Design:

Utilizes an object-oriented approach with separate classes for different job roles, encapsulating their properties and behaviors.

### ❖ Multiple Career Tracks:

Covers a diverse range of computer science career tracks, including Software Developer, Data Scientist, Network Engineer, Cybersecurity Analyst, Web Developer, Mobile Developer, Game Developer, UX Designer, and Technical Writer.

#### **❖** Job Role Details:

Displays detailed information for each career track, such as job title, description, required skills, average salary, and specific attributes relevant to the role.

#### External Resources:

Provides URLs to external resources (e.g., online courses) related to each job role, offering users the opportunity to explore further educational materials.

#### User Interaction:

Engages users by presenting them with choices based on their interests and preferences, allowing them to select a career track for detailed information.

### Continuous Exploration:

Allows users to explore different career tracks continuously until they decide to exit the program.

### ♦ How to Use:

The program starts by welcoming the user and presenting choices based on different interests in computer science.

#### Career Track Details:

After the user makes a selection, the program displays detailed information about the chosen career track.

### External Resources:

Provides relevant URLs for external resources related to the selected career track, encouraging users to explore further educational opportunities.

### **Exit Option:**

Users can exit the program at any time by entering option 10, accompanied by a farewell message.

### Classes and Design:

Main Class (Main.java): The main entry point of the program, responsible for user interaction and displaying career track details.

Job Role Classes (SoftwareDeveloper, DataScientist,
Network Engineer, Cybersecurity Analyst
,WebDeveloper, Mobile Developer, Game Developer, UX
Designer, and Technical Writer)

Individual classes representing specific job roles, encapsulating details such as title, description, skills, and average salary.

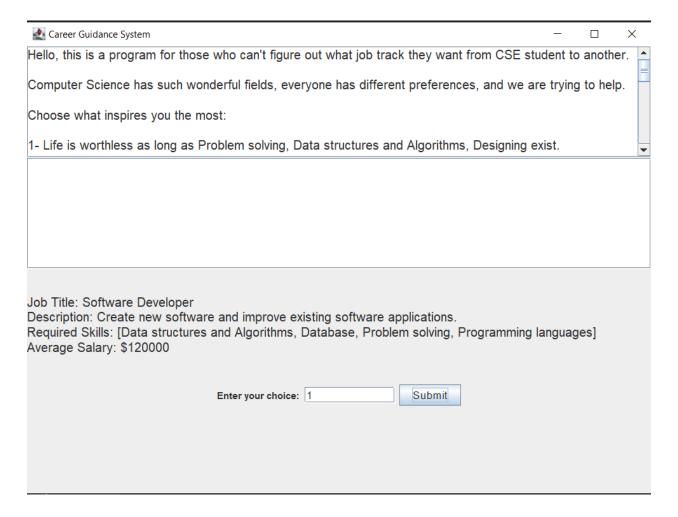
# **❖**URL Handling:

Utilizes the java.net.URL class to handle URLs and provide external resources for further learning.

# **❖** User Input Handling:

Uses the Scanner class for user input, allowing users to navigate through different career tracks.

# **GUI FOR THE PROJECT**



#### **Option to exit:**

