

#### College of Computer Science & Engineering

Department of Computer Science & Artificial Intelligence



# A VOLUNTEER APPLICATION FOR THE UNIVERSITY OF JEDDAH COVID-19 VACCINE CENTER

**CCCS 214**-Object oriented programming(||) project Ahd abdulrahman alsubhi-200655-P

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# 1. INTRODUCTION

The Vaccination Center at the University of Jeddah receives hundreds of visitors daily to receive vaccine doses, whether from university students and employees or from all members of society. The increase in the number of visitors led to an increase in work pressure on the employees, and due to the lack of employees compared to the number of visitors, volunteer opportunities were announced in the university clinic for all health and technical specialties.

### 2. PROBLEM DESCRIPTION

Since there are many people who wanted to volunteer, they were registered through the questionnaires established by the university. Instead, a health volunteering application will be created to store data in a dedicated volunteer database linked to the university clinics system, in order to:

- -Registration directly through the system.
- -facilitate and organize the management of their tasks.
- -calculate volunteer hours.
- -supervision with volunteer and organizational teams.
- -making reports and statistics.

# 3. NAME CONCEPT



ر ف د: **الرِّفْدُ** بكسر الراء العطاء والصلة وبفتحها المصدر و **رَفَدَهُ** أعطاه **ورفده** أعانه و **الإرفَادُ** أيضا الإعطاء والإعانة مرادفات رَفْد (اسم):

إِحْسَان ,إِعانَة , إِغَاثَة , عَطَاء , عَوْن , غَوْث , مُسَاعَدَة , مُسَانَدَة , مُعاوِنَة , مِنْحَة , نَجْدَة , هَدِيّة.

# 4. APPLICATION DESCRIPTION

The main purpose is to provide all the volunteers with a pleasant experience and an easy-to-use service.

- -The user will be able to Log in and Sign up
- -The user will be able to view his/her profile which contains personal information, volunteer hours, number of previously participated events, and medals.
- -The user will be able to view the team and admin information
- -The user will be able to view a schedule of assigned tasks and deadlines.
- -The user will be able to generate a report about the tasks
- -The user will be able to view the university clinic news.

#### **Application used:**

- App sketch: Figma
- DataBase connection: MySql Workbeanch
- App programming: Java NetBeans
- App Interface design: Scene builder

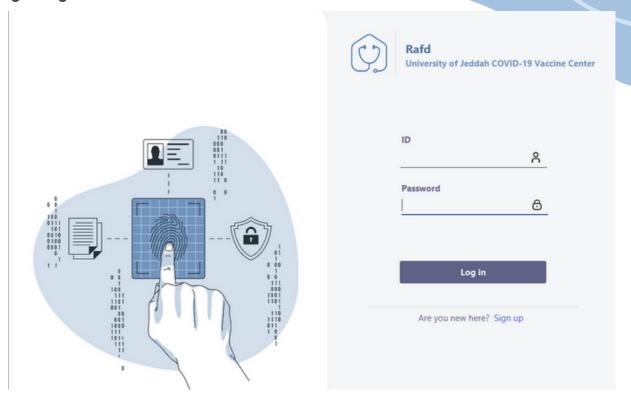
#### **Application windows:**

The Uj clinic task managment app has 5 windows .Log in ,Sign in ,Home ,Clinic news reports .The size of the frame is W 1050,H 700

#### libraries used:

- javax.swing
- com.jfoenix.controls
- java.net.URL
- java.util.ResourceBundle
- javafx.event.ActionEvent
- javafx.fxml.lnitializable
- java.sql.Connection
- java.sql.DriverManager
- java.sql.PreparedStatement
- java.sql.ResultSet
- javafx.fxml.FXML
- javafx.scene
- javafx.stage

#### • Log in Page:



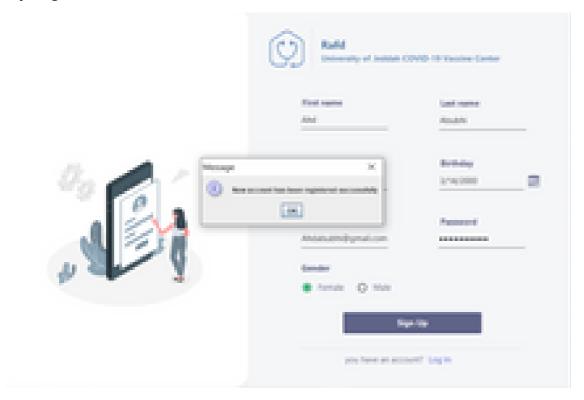


#### Page Interface design:

Instead of using the scene builder's default component, I used the Jfoenix library to design the page, which gives it a more contemporary look. I used JFXTeaxtField for the ID, JFXPasswordField for the password, and JFXButton for the login button. For validation of the input, I used JOptionPane.showMessageDialog if the user login information does not match the database.

#### Log in code:

#### Sign up Page

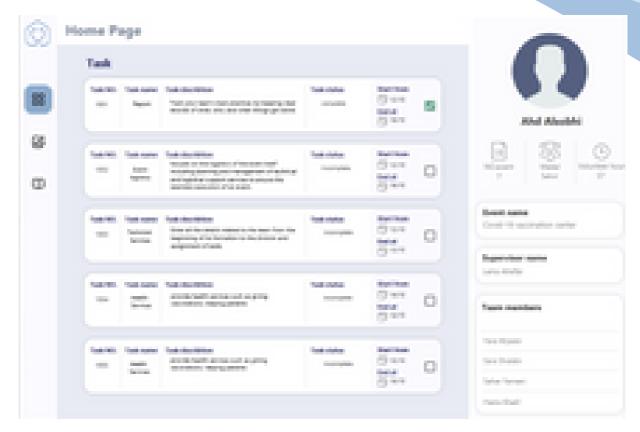


#### Page Interface design:

Instead of using the scene builder's default component, I used the Jfoenix library to design the page, which gives it a more contemporary look. I used JFXTeaxtField, JFXPasswordField for the password, JFXDatePicker, and JFXButton for the Signup button. I used JOptionPane.showMessageDialog to inform the user that the new account has been registered.

#### Sign up code

#### Home Page

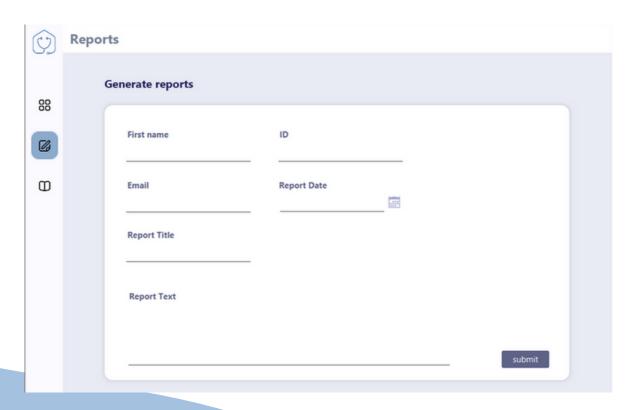


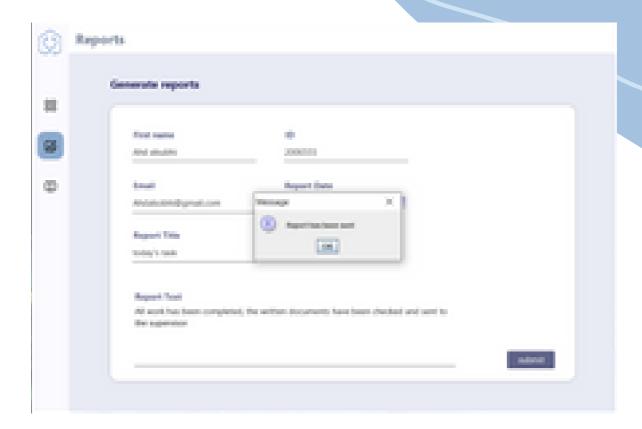
#### Page Interface design:

The home page is divided into three sections: the menu bar on the far left, followed by the tasks in the middle, which contain detailed information for each task, such as the name of the task, its id number, a description of this task, and the ability to change the state of completion by pressing the check box next to the date. every check box in the separated pane. The user's profile follows, which includes the user's name, avatar, number of volunteer hours, number of activities he participated in, and medals earned, as well as the name of the event he participated in and the names of the supervisor and team members, all of which were obtained from the database. The component used: are Label, Text, ImageView, JFXButton, and JFXCheckbox.

#### Home Page code

#### Reports Page:





#### Page Interface design:

This page is for volunteers to write their daily and weekly reports on the tasks that have been completed so that they can be reviewed later by the supervisors. components used: Label, JFXTeaxtArea, JFXTeaxtField, JFXButton, and JFXDatePicker. I used JOptionPane.showMessageDialog to inform the user that the report has been sent.

#### Reports code:

```
//ditabase tools

private Connection connects

private PreparedStatement statement;

private PreparedStatement statement;

private PreparedStatement statement;

public Connection connectSO() {

try {

    connect = DriverManager.getConnection("jdbclmysql://localhost/task", "root", "al2345");

    return connect;

} catch (Exception o) {

        -return result;

}

private void DubmitAction(ActionEvent event) {

    connect = connectEO();

    try {

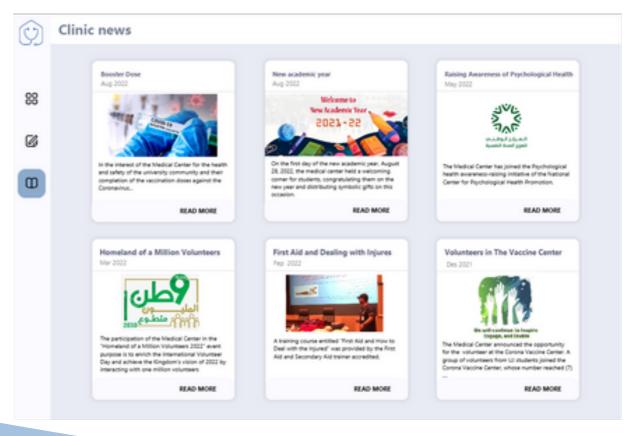
        String sql = "INDERT INTO volunteer VALUES(7,7,7,7,7)";

        statement = connect.preparedItatement(sql);

        statement, setTering(1, pattext(1));

        statement, setTering(1, pattext(1));
```

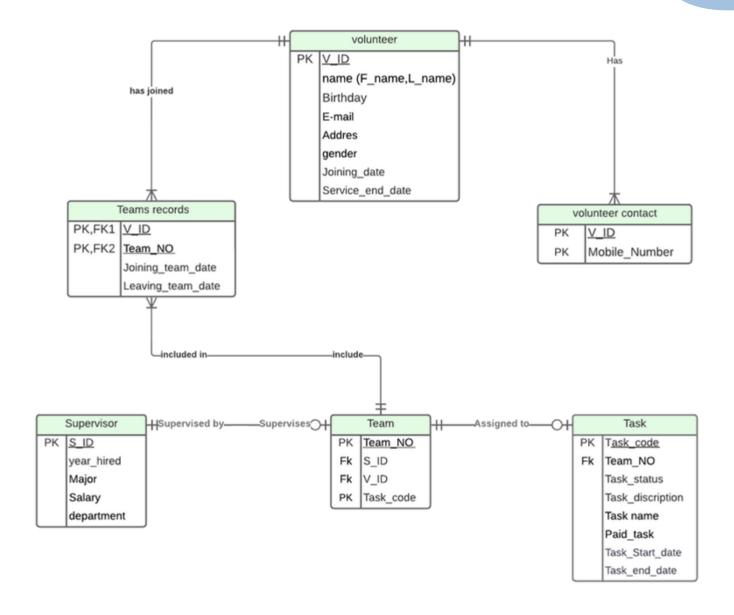
#### News Page:



#### Page Interface design:

This page is to only show clinic news and the latest update for the volunteers. components used: Label, JFXTeaxtArea, JFXTeaxtField, JFXButtons, and ImageView.

# 5. ER MODEL



# 6. RELATIONAL SCHEMA

#### volunteer Service\_end\_ V-ID **Fname** Lname **Birthday Email** Gender **Addres** Joining\_date date volunteer\_contact V-ID Mobile\_Number **Team** Team.NO V-ID Task\_code S-ID **Supervisor** S-ID **Department** year hired major **Salary** task Task\_Start\_ Task\_end\_ Task\_ Team. Task Task\_status Task\_discription Paid\_task date code NO name date **Team record**

Joining\_team\_date

V-ID

Team.NO

Joining\_team\_date

# STAY SAFE

