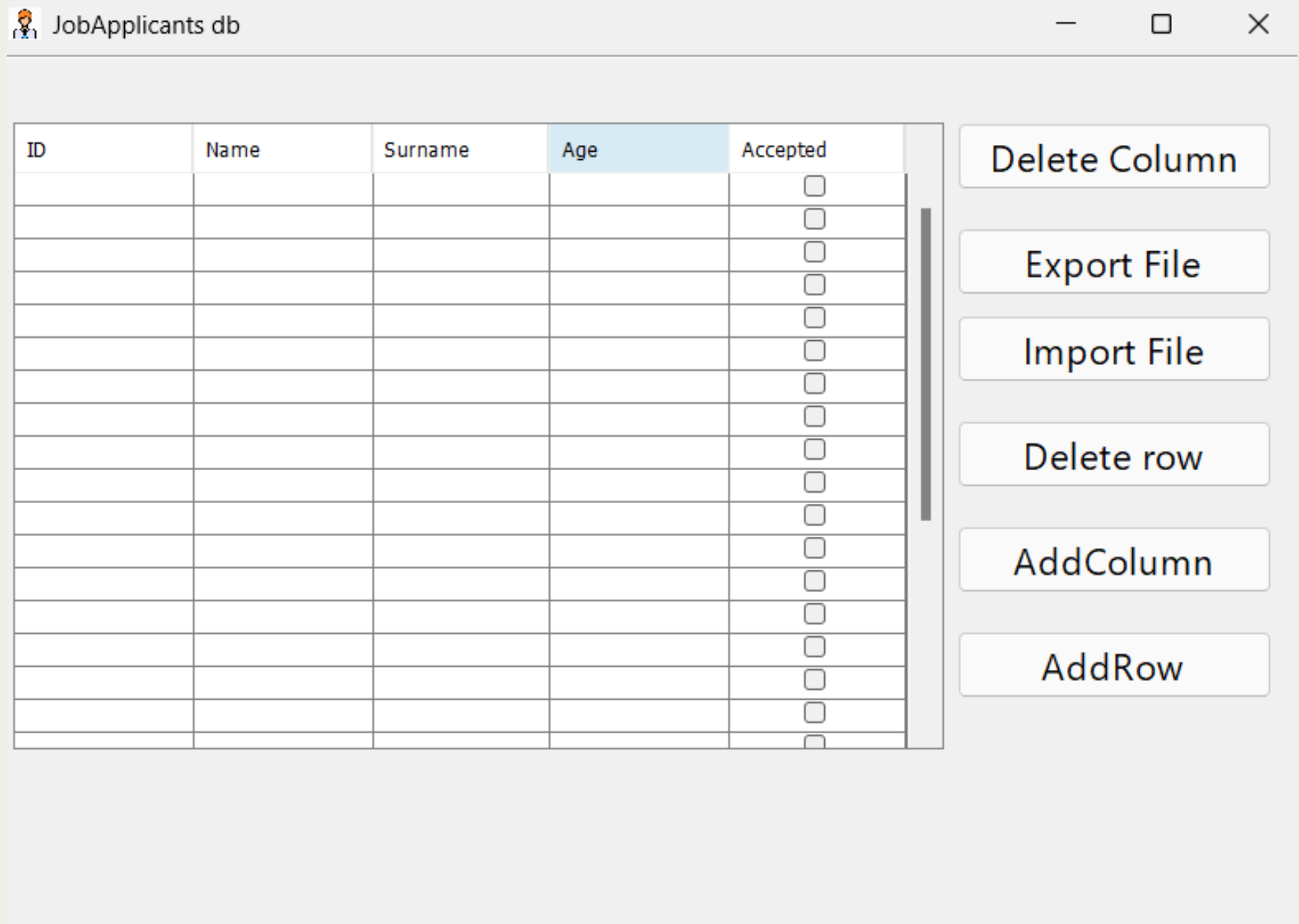# JobApplicants db project

by Djanybekov Maadanbek

What I have in my project?

1. GUI that was writed by using java swing

2. export/import in CSV format

3. Editable Rows and Columns

What inside?

```java
private void initComponents() {

    delRowBttn = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    importFileBttn = new javax.swing.JButton();
    exportFileBttn = new javax.swing.JButton();
    deleteColumnBttn = new javax.swing.JButton();
    addColumnBttn = new javax.swing.JButton();
    addRowBttn = new javax.swing.JButton();
    jMenuBar1 = new javax.swing.JMenuBar();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    delRowBttn.setFont(new java.awt.Font( name: "Segoe UI", style: 0, size: 18)); // NOI18N
    delRowBttn.setText("Delete row");
    delRowBttn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            delRowBttnActionPerformed(evt);
        }
    });
```

Initialization of java swing components

1.

I decided to do GUI in ApacheNetbeans ide

```java
public class MainFrame extends javax.swing.JFrame {

    /**
     * Creates new form MainFrame
     */
    public MainFrame() {  1 usage
        initComponents();
        setTitle("JobApplicants db");
        ImageIcon imageIcon = new ImageIcon( filename: "d5b04cc3dcd8c17702549ebc5f1acf1a.jpg");
        setIconImage(imageIcon.getImage());
    }
    ArrayList<String> columnsList = new ArrayList<>(Arrays.asList("ID", "Name", "Surname", "Age", "Accepted"));  3 usages
```

Setting buttons

```java
exportFileBttn.setFont(new java.awt.Font( name: "Segoe UI", style: 0, size: 18)); // NOI18N
exportFileBttn.setText("Export File");
exportFileBttn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        exportFileBttnActionPerformed(evt);
    }
});


deleteColumnBttn.setFont(new java.awt.Font( name: "Segoe UI", style: 0, size: 18)); // NOI18N
deleteColumnBttn.setText("Delete Column");
deleteColumnBttn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        deleteColumnBttnActionPerformed(evt);
    }
});


addColumnBttn.setFont(new java.awt.Font( name: "Segoe UI", style: 0, size: 18)); // NOI18N
addColumnBttn.setText("AddColumn");
addColumnBttn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

Deleting rows function

```java
//deleteButton
private void delRowBttnActionPerformed(java.awt.event.ActionEvent evt) { 1 usage
    DefaultTableModel tblModel = (DefaultTableModel) jTable1.getModel();

    //1 row delete
    if(jTable1.getSelectedRowCount()==1){
        tblModel.removeRow(jTable1.getSelectedRow());
    }else{
        if(jTable1.getSelectedRowCount()==0){
            JOptionPane.showMessageDialog( parentComponent: this, message: "Table is empty");
            //if user didnt choose row
        }
        else{
            //deleting several rows
            int[] n = jTable1.getSelectedRows();
            int lim = n.length;

            for(int i=lim-1; i>=0; i--){
                tblModel.removeRow(n[i]);
            }
        }

    }

}
```

Export in CSV format function

```java
private void exportFileBttnActionPerformed(java.awt.event.ActionEvent evt) {  1 usage
    DefaultTableModel tblModel = (DefaultTableModel) jTable1.getModel();
    File file = new File( pathname: "SaveExample.csv");
    try {
        PrintWriter pw = new PrintWriter(file);
        for(int col=0; col<tblModel.getColumnCount();col++){
            pw.write(tblModel.getColumnName(col));
            if(col<tblModel.getColumnCount()-1)pw.print(",");
        }
        pw.println();
        for(int row=0; row<tblModel.getRowCount();row++){
            for(int col=0; col<tblModel.getColumnCount();col++) {
                if(tblModel.getValueAt(row, col)!=null) {
                    Object value = tblModel.getValueAt(row,col);
                    if(value instanceof Boolean ){
                        pw.print((Boolean) value ? "true":"false");
                    }
                    else if (col<tblModel.getColumnCount()-1) {
                        pw.print(String.valueOf( value)+",");
                    }
                    else{
                        pw.print(String.valueOf( value));
                    }
                }
            }
            pw.println();
        }
```

Текст абзаца

That was very interestin expirience, thank you Jenishbek Agay