# Person-Student Management System


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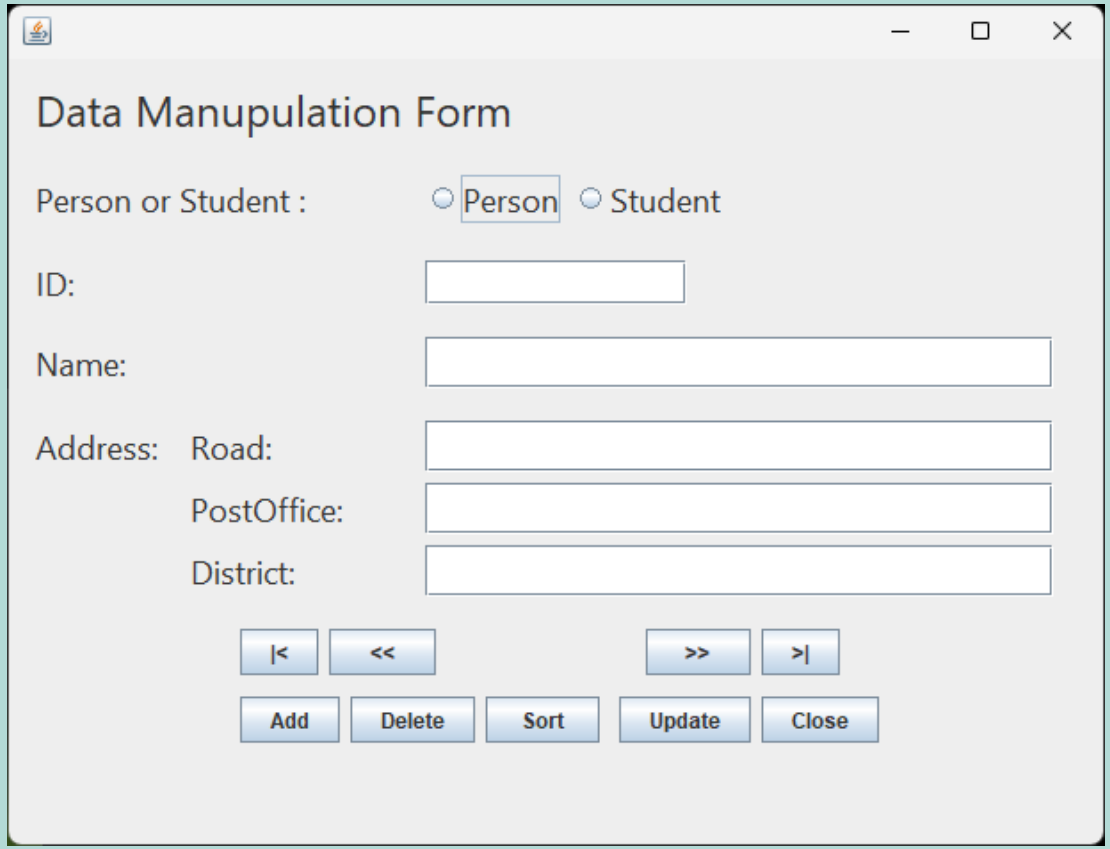
Computer Science and Engineering Discipline

Khulna University, Khulna

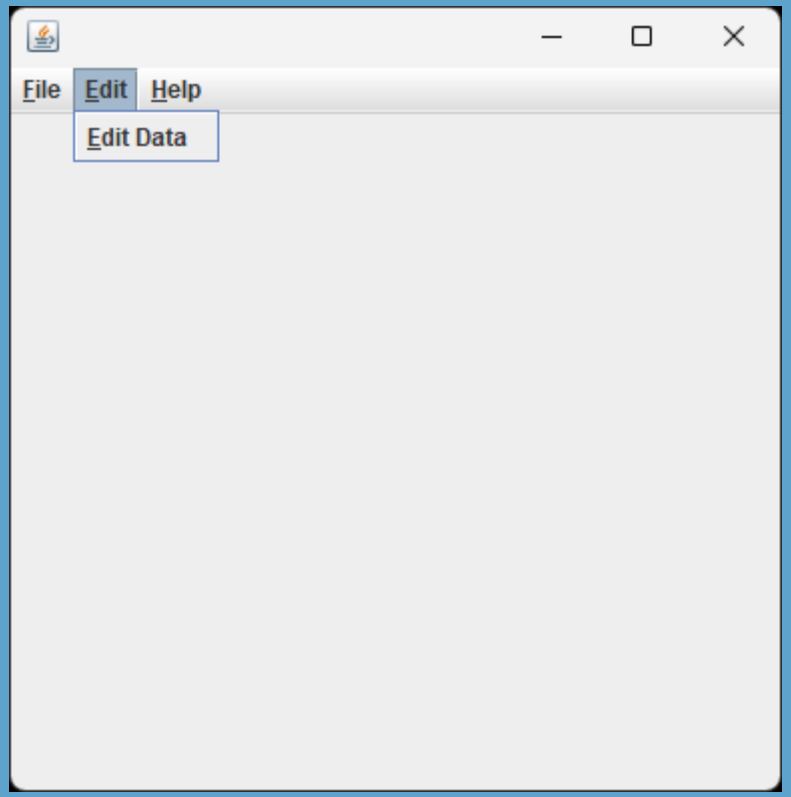
# Project:
# Person-Student Management System in Java

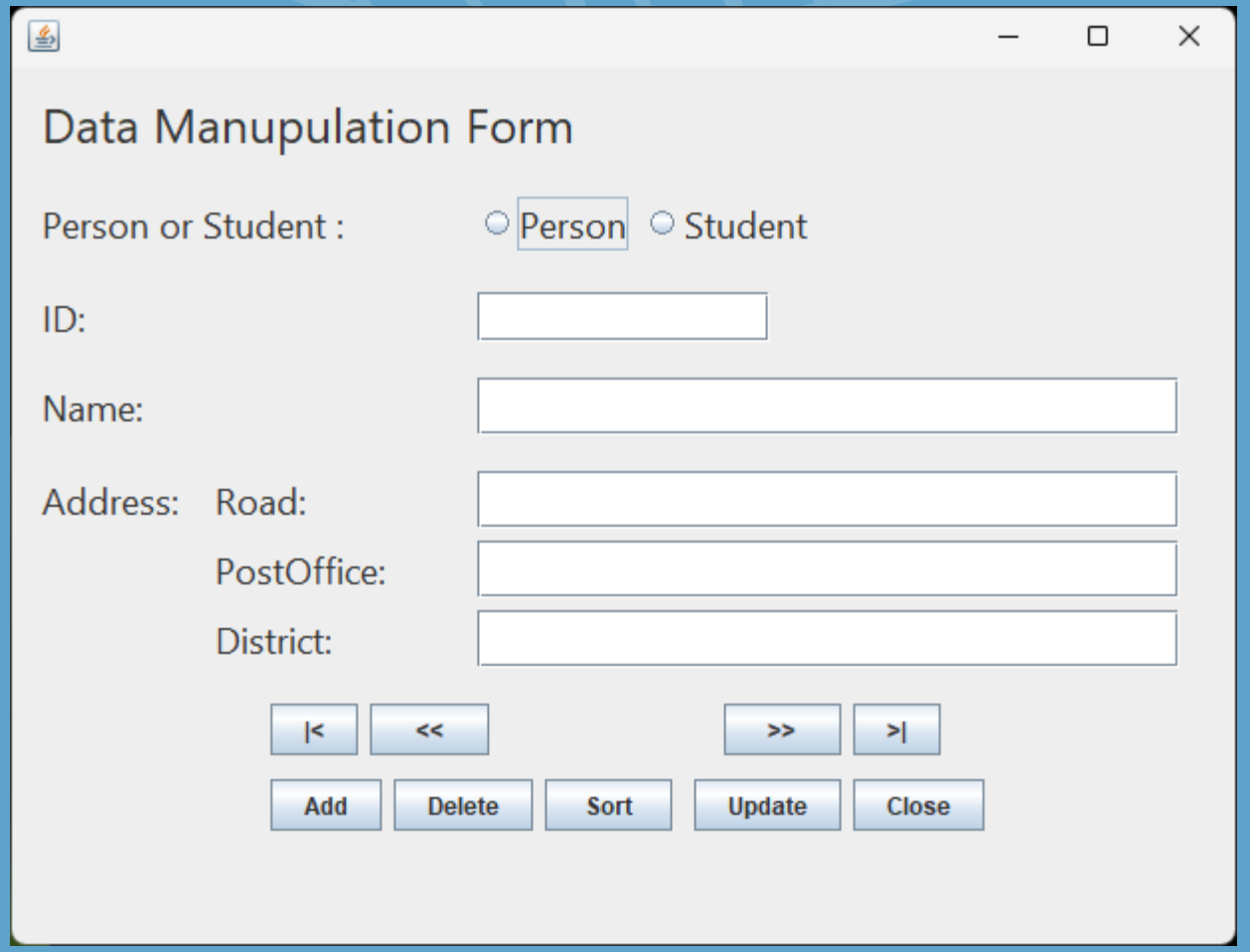
**Features:**

- **Simple and User-friendly UI**
- **Person or Student selection radio button**
- **Add, Delete or Update Person or Student Information**
- **Sort alphabetically in ascending order**
- **Save to local memory**
- **Automatic load from local memory**



# Project Demonstration



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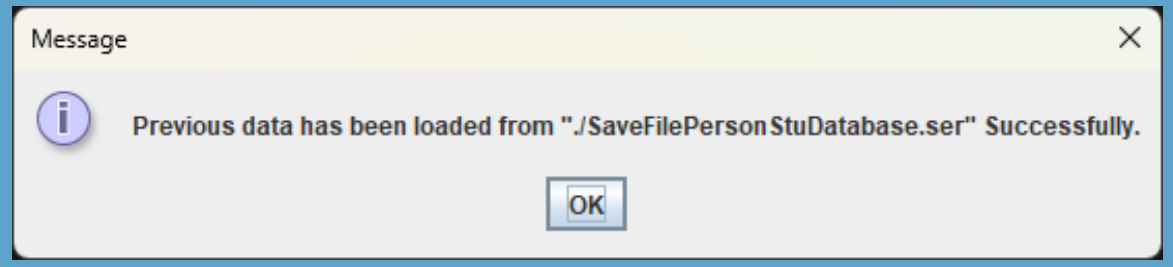


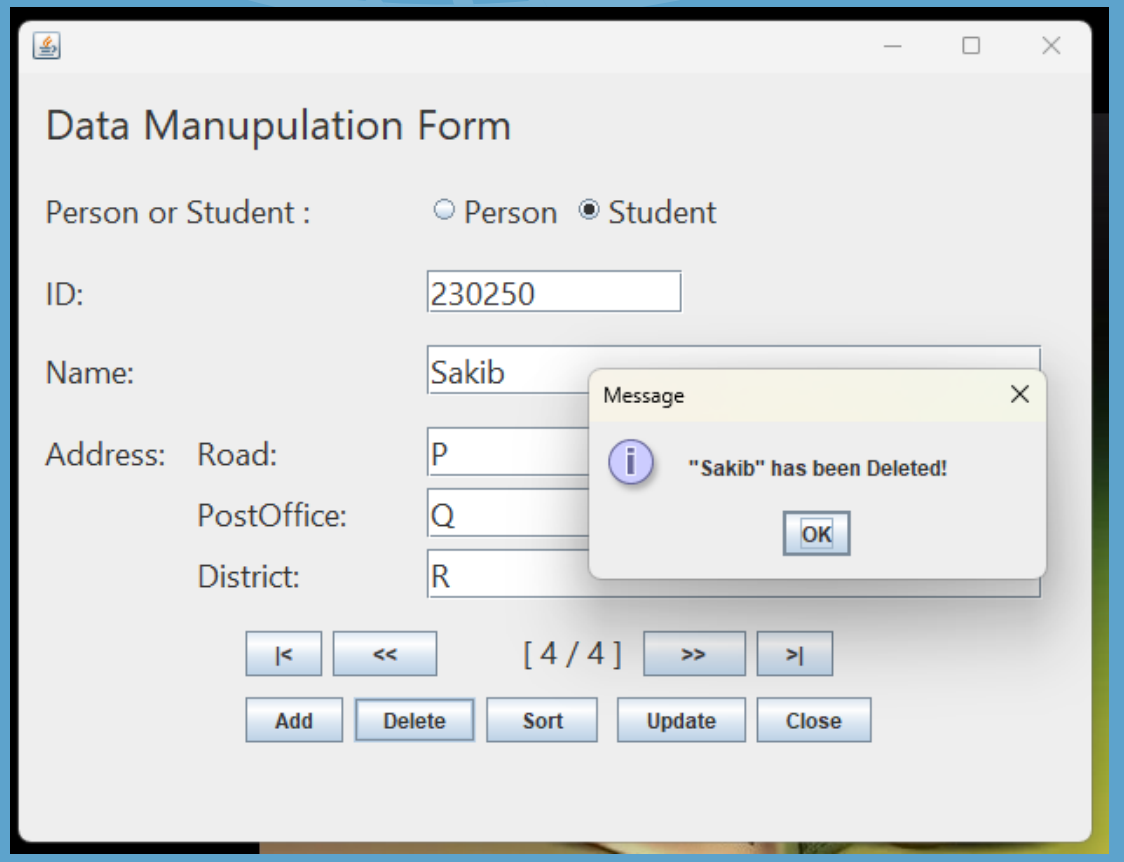

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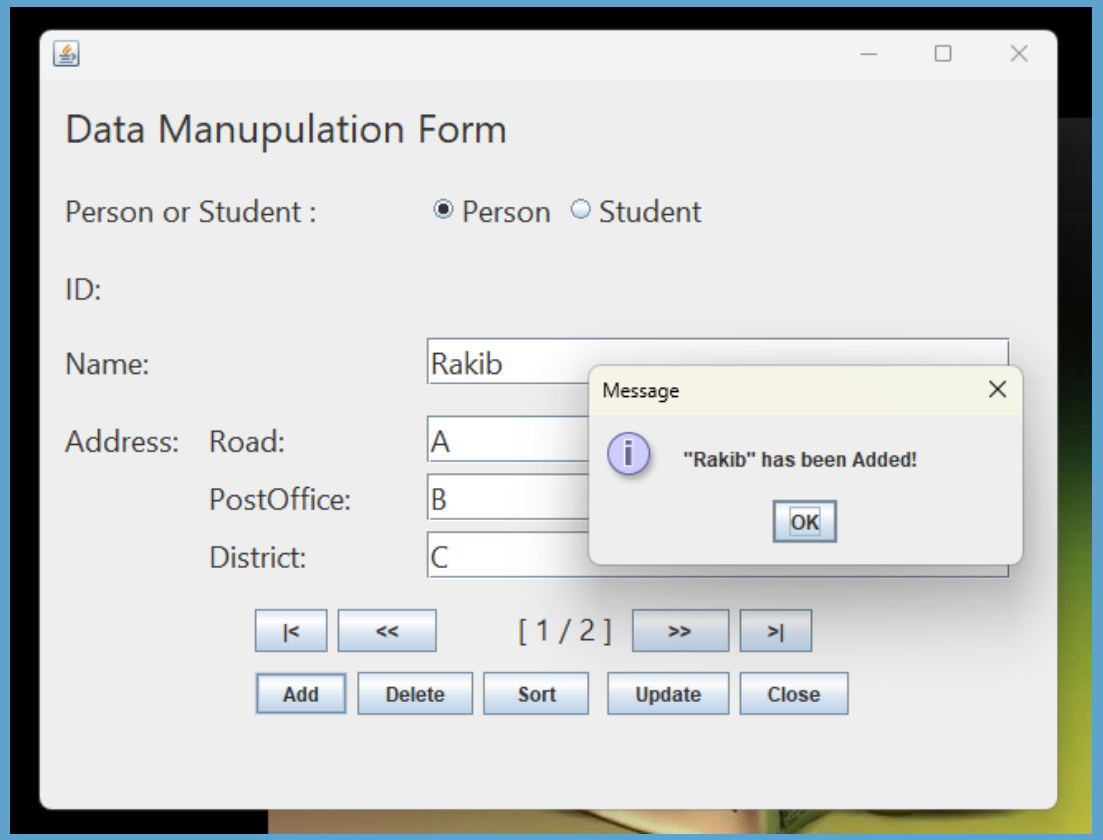
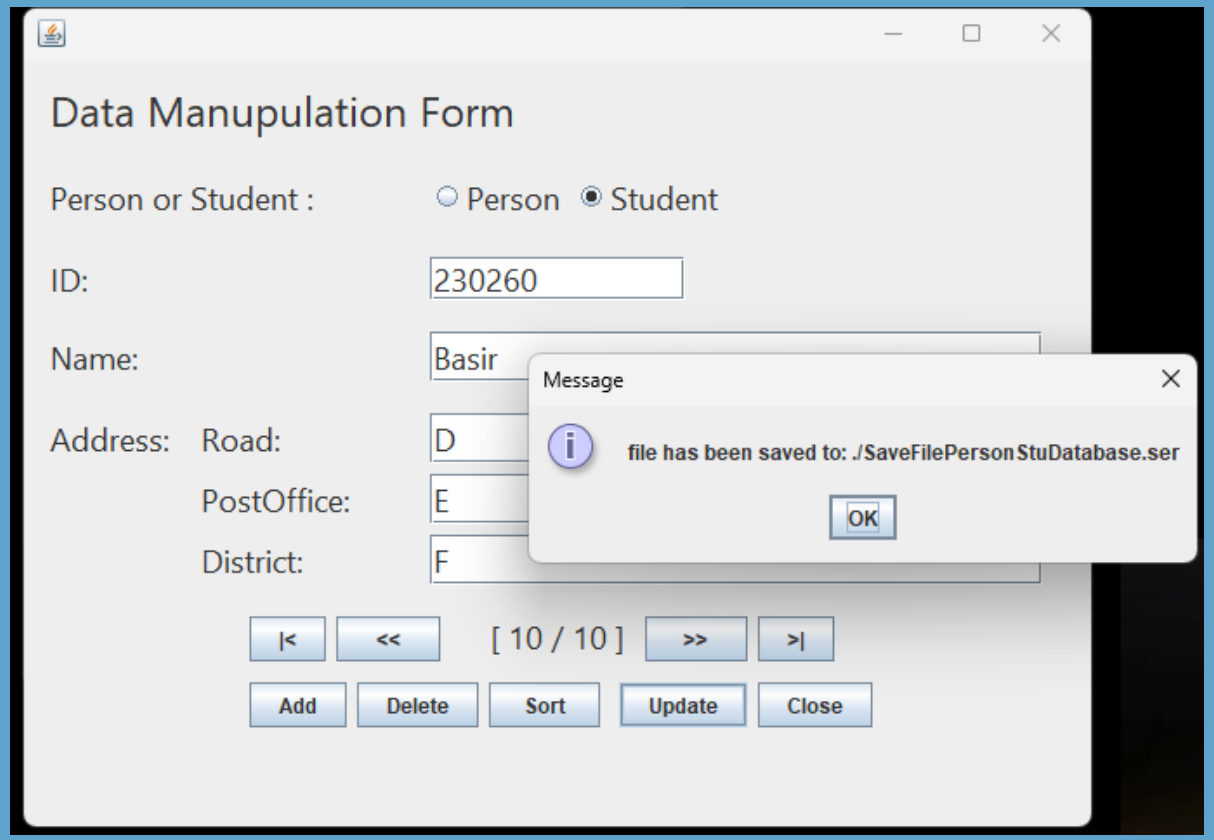
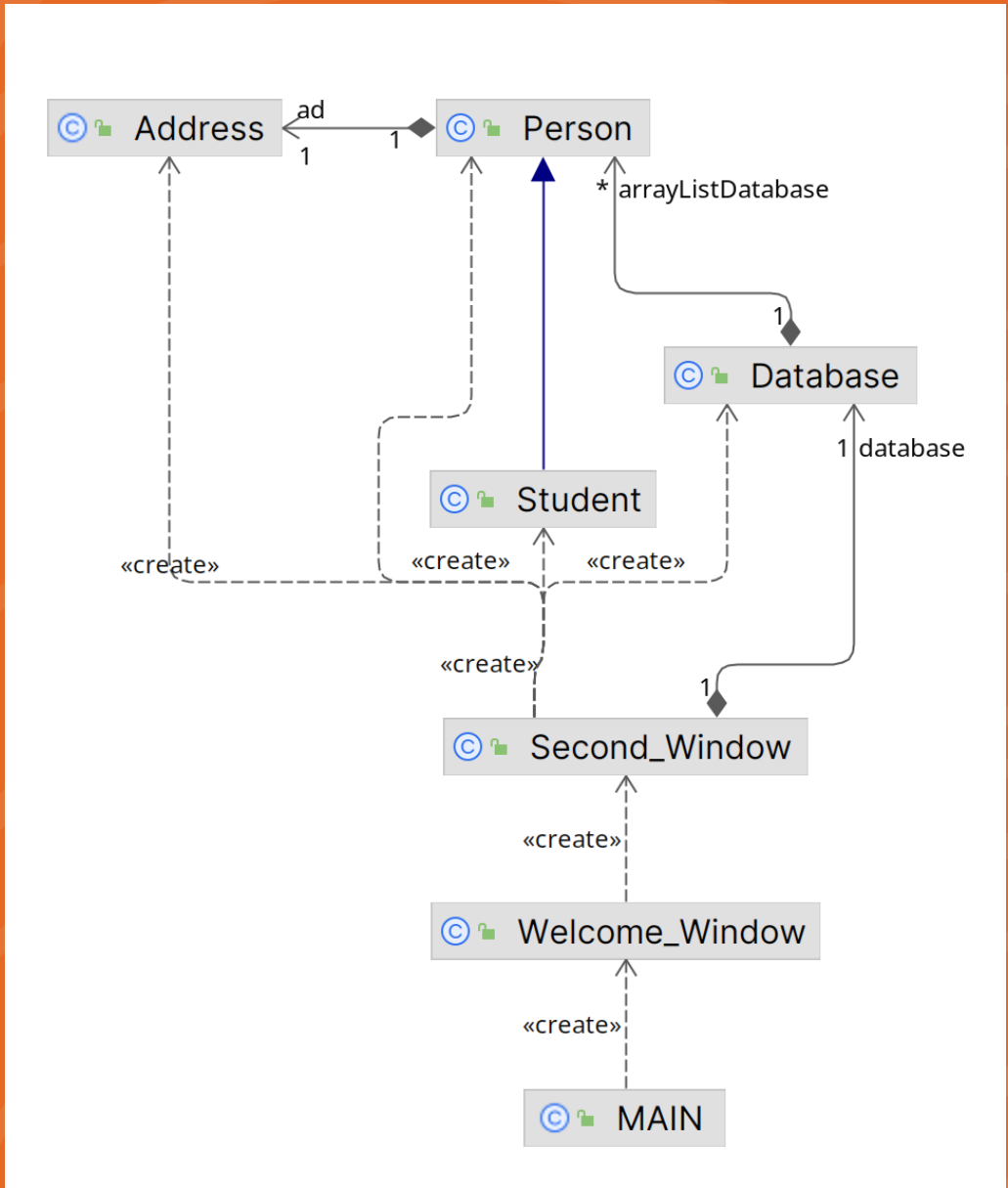


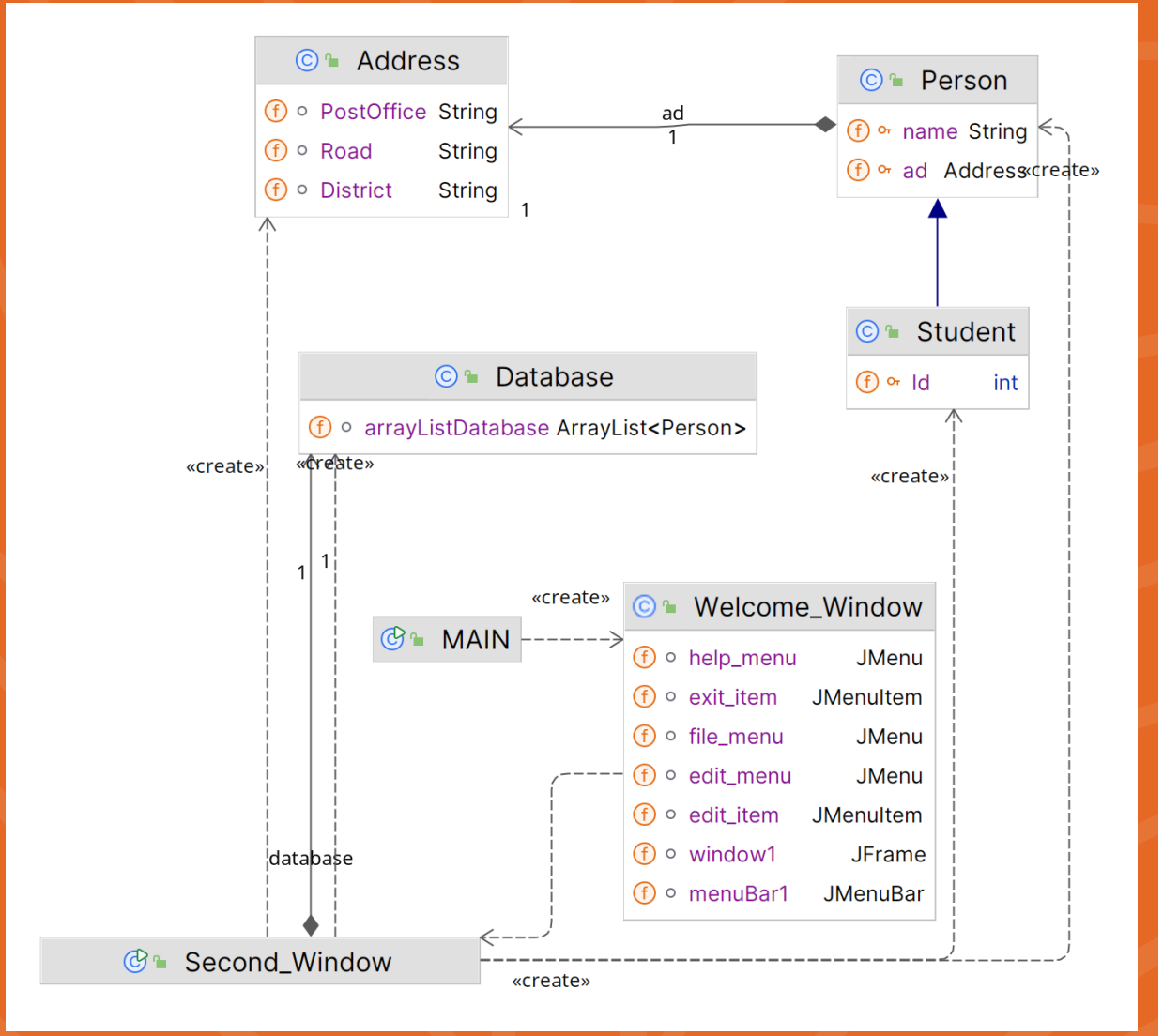
# Step by Step Procedure

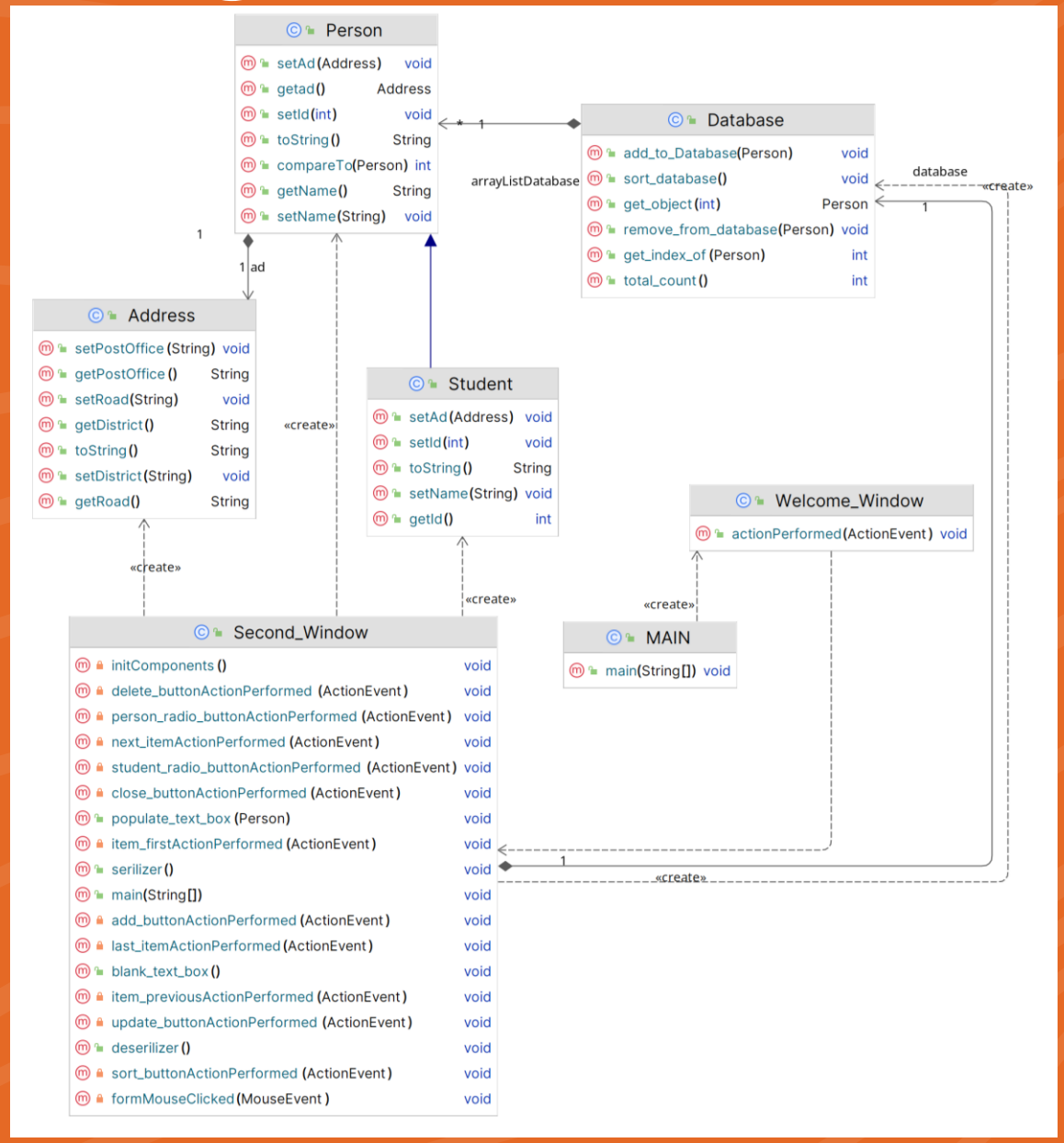
- Raugh Drawing of UI Interface to determine necessary Swing components
- Identifying necessary classes and Drawing UML Class Diagram according to requirement
- Writing Basic Classes (Address, Person, Student, Database, …) as base of back-end side
- Drag and Drop GUI Components to design front-end User Interface (UI)
- Defining instructions(code) for GUI components in respective method blocks
- Implement ActionListener Interface
- Implement Serialization and Deserialization
- Continuous Testing and Bug Fixing
- Export to executable JAR file

# UML Class Diagram (Class name and relations only)



# UML Class Diagram

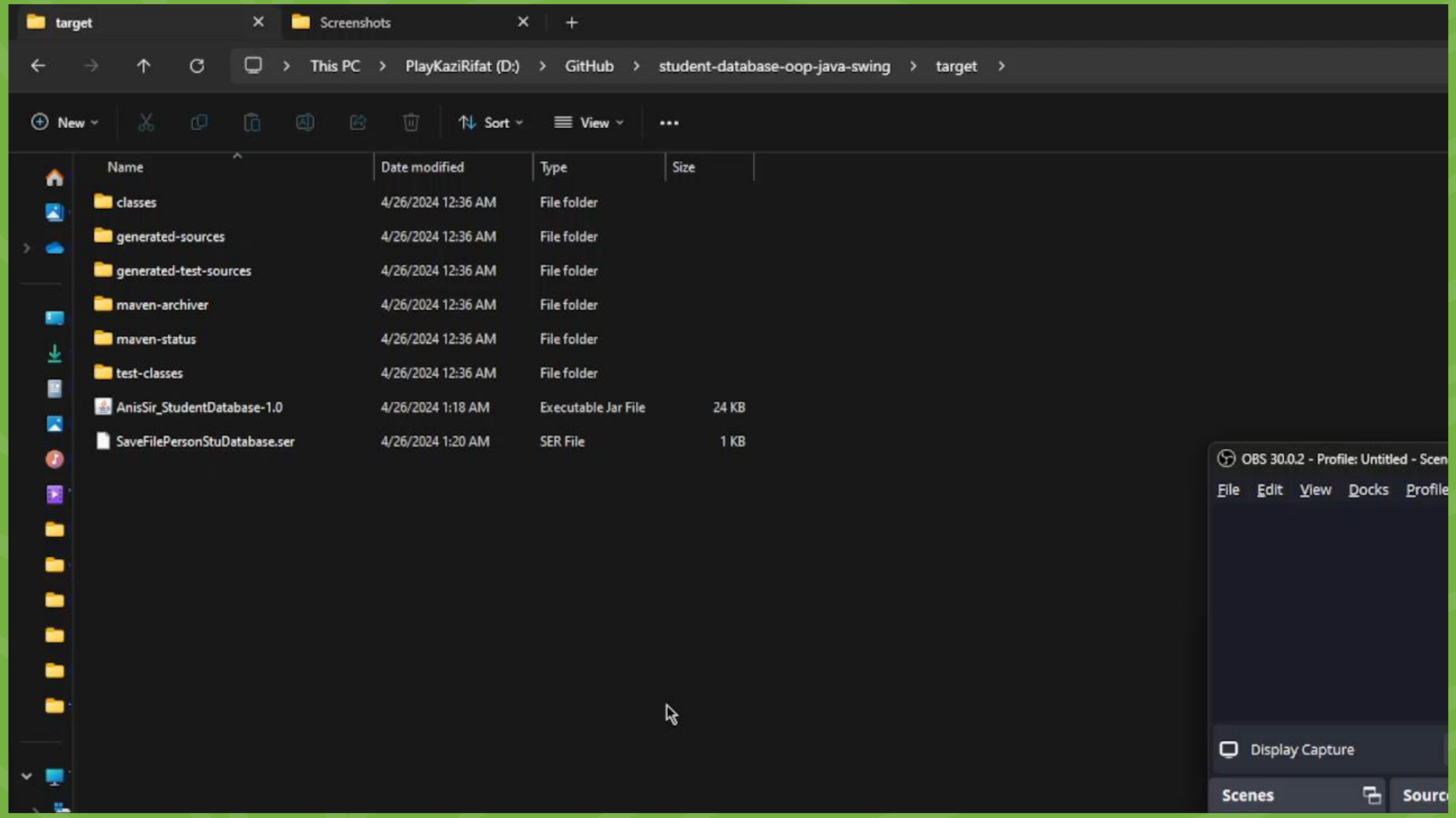


# Essential Swing Components

- JFrame: JFrame represents a window on the screen and holds all the other GUI components.
- JLabel:  JLabel displays a text or image on the screen.
- JButton: Jbutton is a  clickable button that triggers an action when pressed.
- JMenuBar: JMenuBar is a horizontal bar that holds multiple JMenu objects and appears at the top of the JFrame by default.
- JMenu:  An individual menu within a menu bar. It holds a list of menu items.
- JRadioButton:  A button that represents selection of one option from a set of choices.
- JTextField: JTextField is a component used in Java Swing to allow users to input or edit a single line of text.

# Project Demonstration (Video)



# Questions & answers

# Thank you very much