

# GUI Testautomatisierung mit Abbot Framework

Tawatchai Siripanya

Yang Zhang

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# Outline

- Abbot Einführung
- Abbot Live Demo

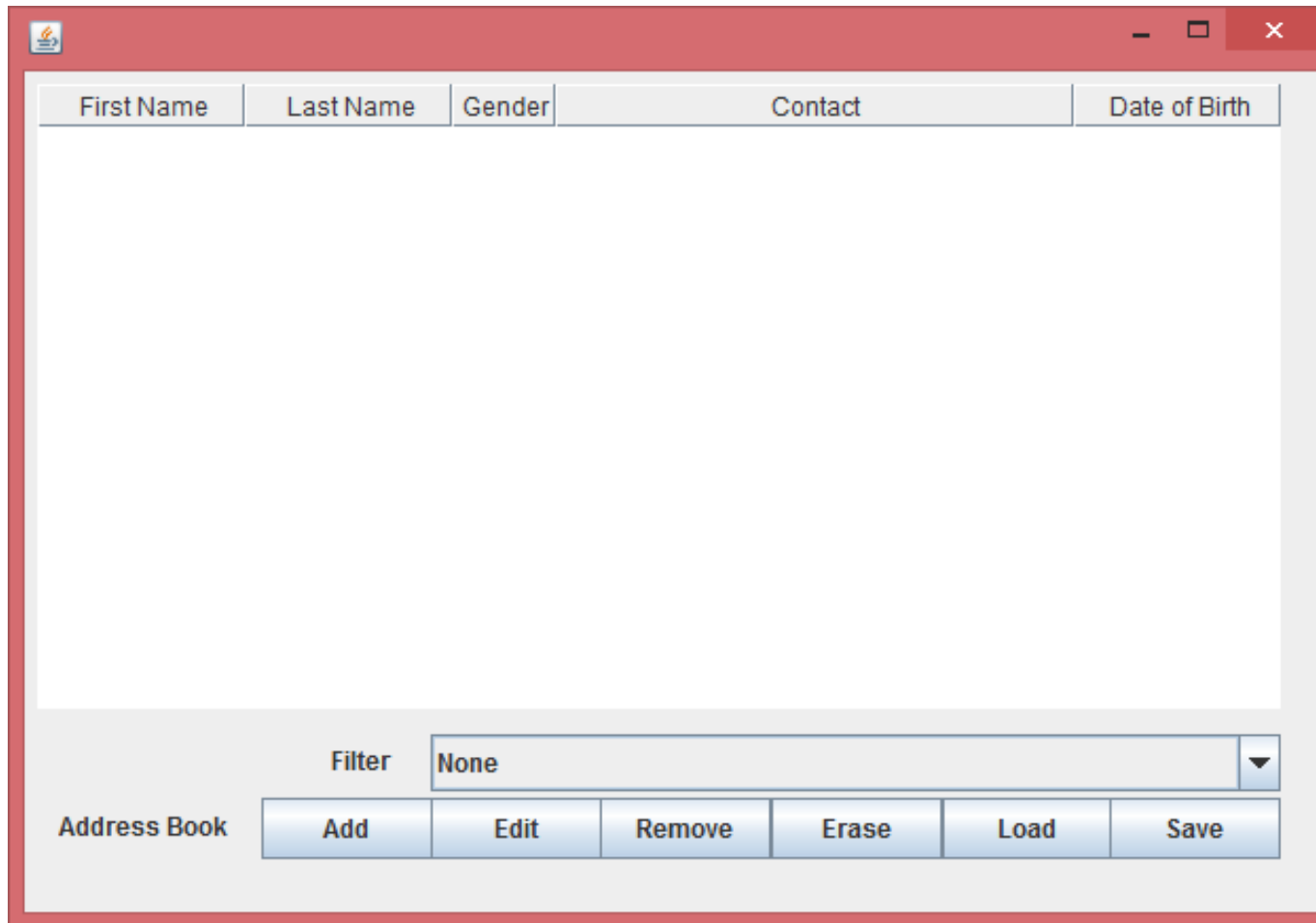
# Abbot <sup>[1]</sup>

- JAVA User Interface Test Werkzeug
- Eclipse Public License (EPL) von Timothy Wall
- Release 1.2.0 (Current) von 2004 bis jetzt
- Einfach zu implementieren
- Gute Dokumentationen
- Benötigt eindeutige Namen der Komponenten

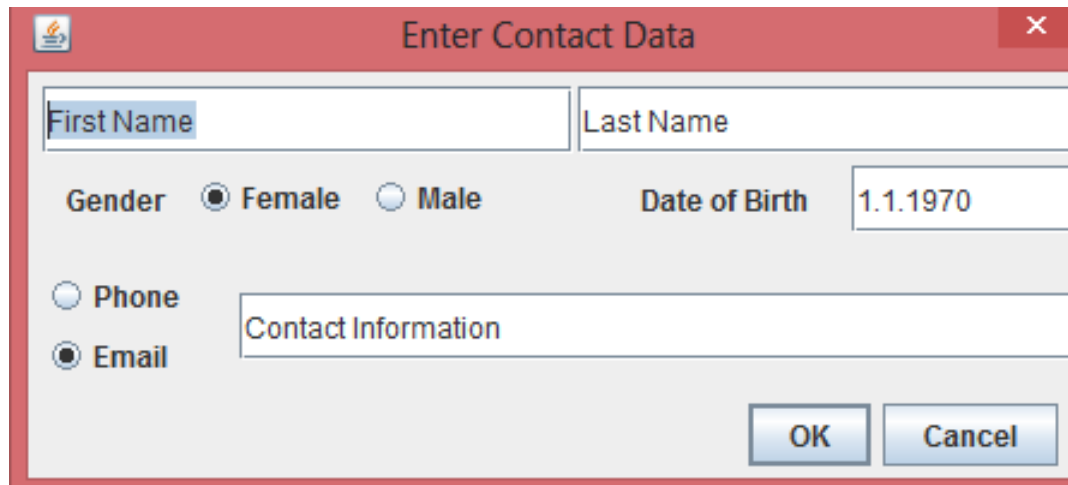
[1] <http://abbot.sourceforge.net/doc/quick-start.shtml>

# Application Under Test (AUT)

- Addressbuch GUI



# Application Under Test (AUT)

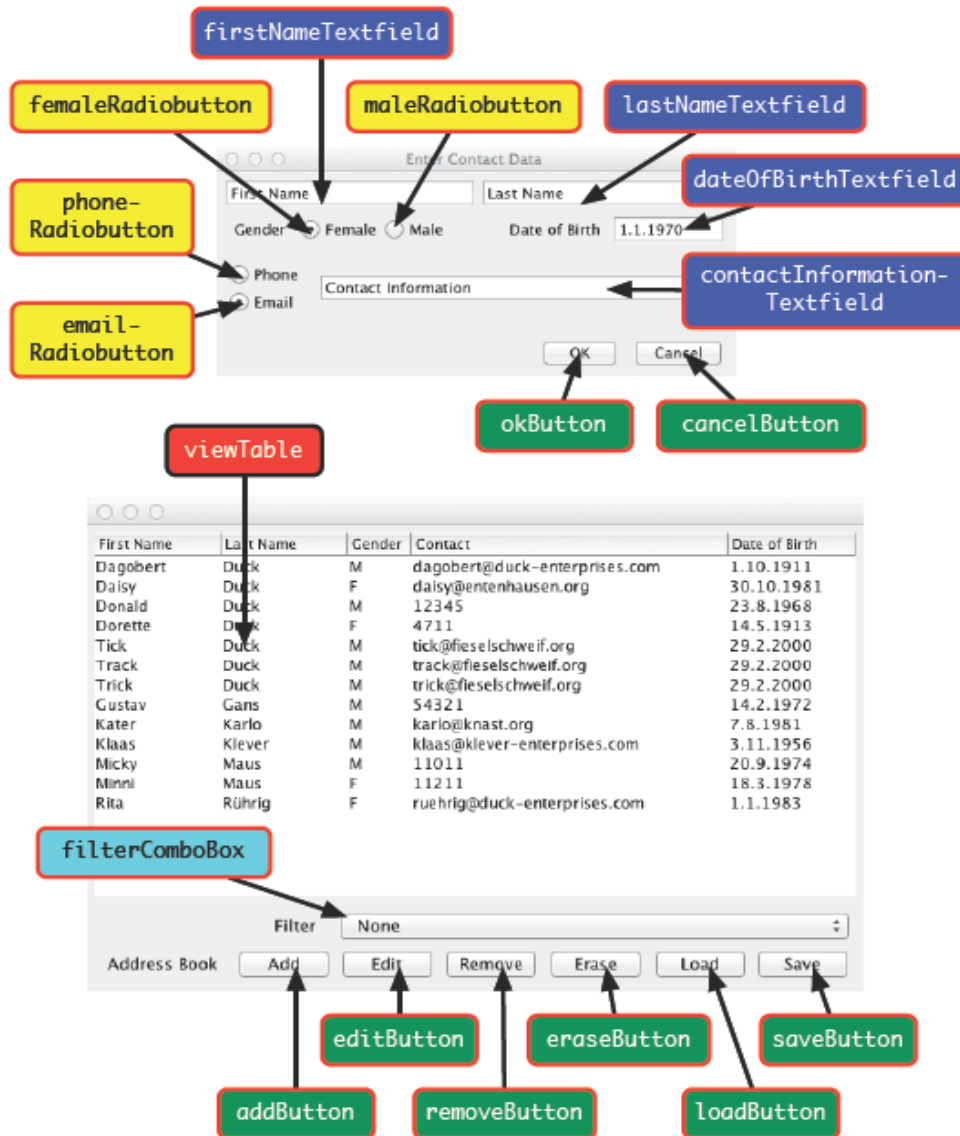


The image shows a dialog box titled "Enter Contact Data" with a red title bar and a close button (X) in the top right corner. The dialog contains the following fields and controls:

- Two text input fields: "First Name" and "Last Name".
- Gender selection: "Gender" with radio buttons for "Female" (selected) and "Male".
- Date of Birth: "Date of Birth" with a text input field containing "1.1.1970".
- Contact Information: "Phone" (unselected) and "Email" (selected) radio buttons, followed by a "Contact Information" text input field.
- Buttons: "OK" and "Cancel" buttons at the bottom right.

## Komponentennamen und -typen für die Adressbuch GUI

JButton
JRadioButton
JTextField
JComboBox
JTable



Quelle: [1]

# Abbot im Beispiel

```
import ....
public class Test1 extends ComponentTestFixture {
    private JButtonTester buttonTester;
    ....
    @Before
    public void setUp() throws Exception {
        // Start the application
        exercise5.addressbook.Manager.main(null);
        // Setup some test instrumentation
        this.buttonTester = new JButtonTester();
        ....
    }
    @Test
    ....
}
```

# Anklicken Beispiel

```
@Test
public void testclickBtn() {
    //Load data into address book
    buttonTester.actionClick(getFinder().find(new
NameMatcher("loadButton")));
    //Click the add btn
    buttonTester.actionClick(getFinder().find(new
NameMatcher("addButton")));
}
```



# Testen

```
TableModel content = ((JTable) getFinder().find(new  
NameMatcher("viewTable"))).getModel();
```

```
content = ((JTable) getFinder().find(new  
NameMatcher("viewTable"))).getModel();
```

```
// Check the first row
```

```
    assertEquals("Donald", content.getValueAt(0, 0));
```

```
    assertEquals("Duck", content.getValueAt(0, 1));
```

```
    assertEquals("M", content.getValueAt(0, 2));
```

```
    assertEquals("12345", content.getValueAt(0, 3));
```

```
    assertEquals("23.8.1968", content.getValueAt(0, 4));
```

# Live Demo

# Reference

- [1] Grundlagen des Software-Testens,  
<https://www.mi.fu-berlin.de/kvv/course.htm?cid=10343&sid=24&iid=1>

Vielen Dank