



NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Topic: **Phonebook Application**

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Update Module

Function: UpdateContact(String name, String newPhoneNumber)

Purpose: Updates the phone number of an existing contact.

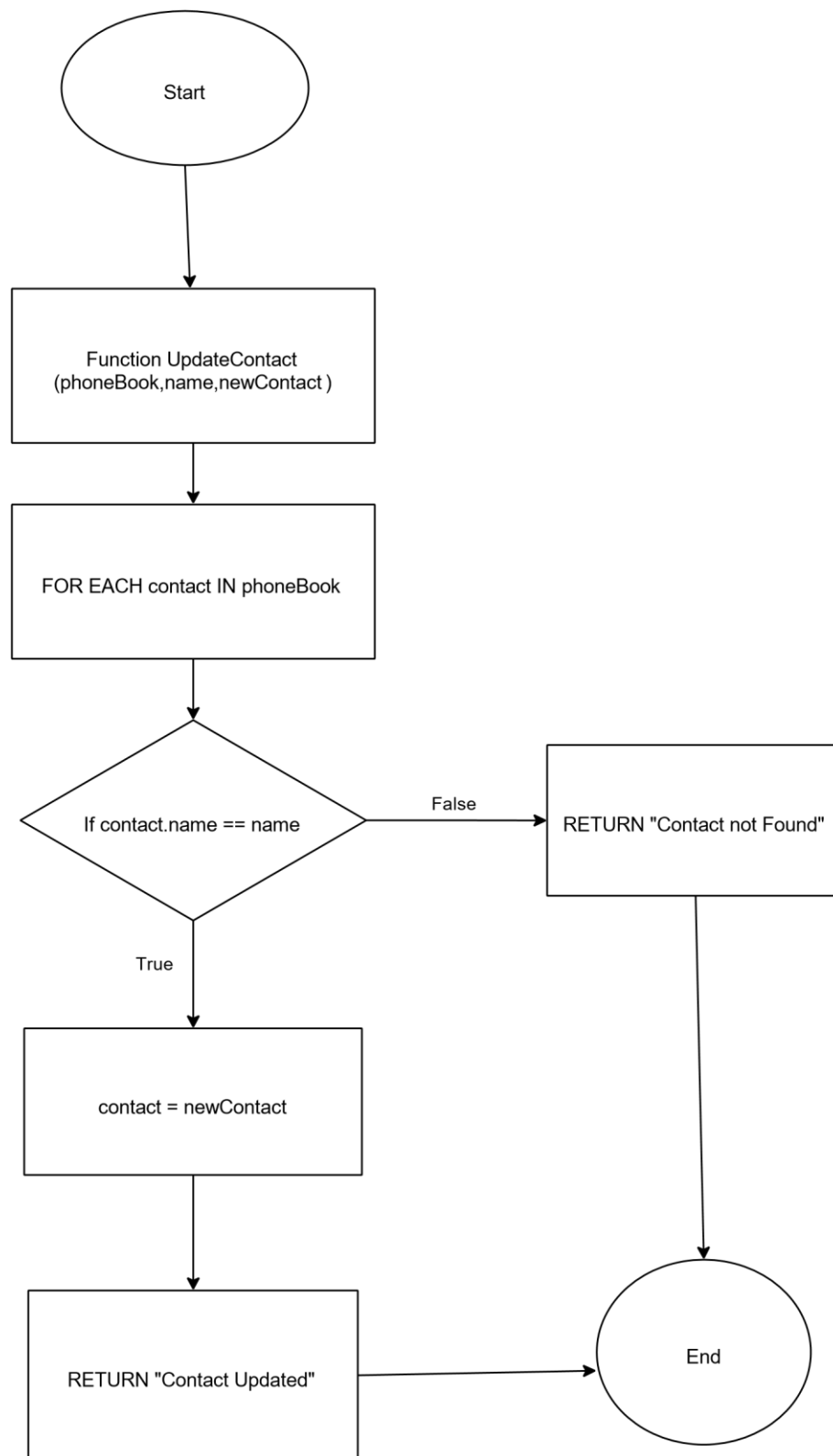
Pseudocode

Start

```
FUNCTION UpdateContact(phonebook, name, newContact)
    FOR EACH contact IN phonebook
        IF contact.name == name
            contact = newContact
    RETURN "Contact updated"
    END IF
    END FOR
    RETURN "Contact not found"
END FUNCTION
```

End

Flowchart



Codes

```
private void cnUpdateActionPerformed(java.awt.event.ActionEvent evt) {

    String Id = txtId.getText();
    String firstName = txtfirstName.getText();
    String lastName = txtlastName.getText();
    String phoneNumber = txtphoneNumber.getText();

    // Database connection
    String url = "jdbc:mysql://localhost:3306/connector";
    String user = "root";
    String password = "6161586";

    try (java.sql.Connection conn = DriverManager.getConnection(url, user, password)) {

        // SQL query to update the contact

        String sql = "UPDATE contact SET  firstName = ?, lastName = ?, phoneNumber = ?
WHERE Id = ?";

        // Prepare the statement

        try (PreparedStatement pstmt = conn.prepareStatement(sql)) {
            pstmt.setString(1, firstName); // Set the first name
            pstmt.setString(2, lastName); // Set the last name
            pstmt.setString(3, phoneNumber); // Set the phone number
            pstmt.setString(4, Id); // Set the ID for the WHERE clause

            // Execute the update

            int updatedRows = pstmt.executeUpdate();
            if (updatedRows > 0) {
                JOptionPane.showMessageDialog(this, "Contact updated successfully!");
            } else {
                JOptionPane.showMessageDialog(this, "No contact found with the given ID.");
            }
        }
    } catch (SQLException ex) {
        ex.printStackTrace();
    }

    // Consider using a logging framework here
}
```

```
JOptionPane.showMessageDialog(this, "Error updating contact: " + ex.getMessage());  
}  
}
```