

Mini Project

The Book Shop

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Class :- TE

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Code :-

```
import java.awt.EventQueue;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JOptionPane;


import java.awt.Font;

import javax.swing.JPanel;

import javax.swing.border.TitledBorder;

import javax.swing.JTextField;

import javax.swing.JButton;

import javax.swing.JTable;

import javax.swing.JScrollPane;

import java.awt.event.ActionListener;

import java.awt.event.ActionEvent;

import java.sql.*;

import net.proteanit.sql.DbUtils;

import java.awt.event.KeyAdapter;

import java.awt.event.KeyEvent;

public class JavaMini {

    private JFrame frame;
```

```
private JTextField txtbname;
private JTextField txtedition;
private JTextField txtprice;
private JTable table;
private JTextField textField;

/**
 * Launch the application.
 */
public static void main(String[] args) {
    EventQueue.invokeLater(new Runnable() {
        public void run() {
            try {
                JavaMini window = new JavaMini();
                window.frame.setVisible(true);
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    });
}

/**
 * Create the application.
 */
public JavaMini() {
    initialize();
    Connect();
    table_load();
}
```

```
Connection con;

PreparedStatement pst;

ResultSet rs;

// "jdbc:mysql://localhost/JavaMini","root","");

public void Connect() {
    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/JavaMini","root","Yash@SQL!
OneShot#12");
    }
    catch(ClassNotFoundException ex) {

    }
    catch(SQLException ex) {

    }
}

public void table_load() {
    try {
        pst = con.prepareStatement("select * from Book");
        rs = pst.executeQuery();
        table.setModel(DbUtils.resultSetToTableModel(rs));
    }
    catch(SQLException e) {
        e.printStackTrace();
    }
}
```

```

    }

    /**
     * Initialize the contents of the frame.
     */
    private void initialize() {
        frame = new JFrame();
        frame.setBounds(100, 100, 530, 349);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.getContentPane().setLayout(null);

        JLabel lblNewLabel = new JLabel("Book Shop");
        lblNewLabel.setFont(new Font("Algerian", Font.BOLD, 28));
        lblNewLabel.setBounds(180, 11, 162, 42);
        frame.getContentPane().add(lblNewLabel);

        JPanel panel = new JPanel();
        panel.setBorder(new TitledBorder(null, "Registration",
TitledBorder.LEADING, TitledBorder.TOP, null, null));
        panel.setBounds(10, 49, 247, 169);
        frame.getContentPane().add(panel);
        panel.setLayout(null);

        JLabel lblNewLabel_1 = new JLabel("Book Name");
        lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 12));
        lblNewLabel_1.setBounds(10, 24, 77, 14);
        panel.add(lblNewLabel_1);

        JLabel lblNewLabel_1_1 = new JLabel("Edition");
        lblNewLabel_1_1.setFont(new Font("Tahoma", Font.BOLD, 12));
        lblNewLabel_1_1.setBounds(10, 59, 77, 14);

```

```
panel.add(lblNewLabel_1_1);
```

```
JLabel lblNewLabel_1_2 = new JLabel("Price");
```

```
lblNewLabel_1_2.setFont(new Font("Tahoma", Font.BOLD, 12));
```

```
lblNewLabel_1_2.setBounds(10, 97, 77, 14);
```

```
panel.add(lblNewLabel_1_2);
```

```
txtbname = new JTextField();
```

```
txtbname.setBounds(97, 22, 140, 20);
```

```
panel.add(txtbname);
```

```
txtbname.setColumns(10);
```

```
txtedition = new JTextField();
```

```
txtedition.setColumns(10);
```

```
txtedition.setBounds(97, 57, 140, 20);
```

```
panel.add(txtedition);
```

```
txtprice = new JTextField();
```

```
txtprice.setColumns(10);
```

```
txtprice.setBounds(97, 95, 140, 20);
```

```
panel.add(txtprice);
```

```
JButton btnNewButton = new JButton("Save");
```

```
btnNewButton.addActionListener(new ActionListener() {
```

```
    public void actionPerformed(ActionEvent e) {
```

```
        String bname,edition,price;
```

```
        bname = txtbname.getText();
```

```
        edition = txtedition.getText();
```

```

        price = txtprice.getText();

        try {
            pst = con.prepareStatement("insert into
Book(book_name,edition,price)values(?,?,?)");
            pst.setString(1,bname);
            pst.setString(2, edition);
            pst.setString(3, price);
            pst.executeUpdate();
            JOptionPane.showMessageDialog(null, "Record
Added!!!");

            table_load();
            txtbname.setText("");
            txtedition.setText("");
            txtprice.setText("");
            txtbname.requestFocus();
        }
        catch(SQLException el) {
            el.printStackTrace();
        }
    }

});
btnNewButton.setBounds(10, 135, 57, 23);
panel.add(btnNewButton);

JButton btnNewButton_1 = new JButton("Exit");
btnNewButton_1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {

        System.exit(0);
    }
});

```

```
        }

    });
    btnNewButton_1.setBounds(180, 135, 57, 23);
    panel.add(btnNewButton_1);

    JButton btnClear = new JButton("Clear");
    btnClear.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {

            try {

                txtbname.setText("");
                txtedition.setText("");
                txtprice.setText("");
                txtbname.requestFocus();

            }
            catch(Exception el) {
                el.printStackTrace();
            }

        }

    });
    btnClear.setBounds(97, 135, 57, 23);
    panel.add(btnClear);

    JScrollPane scrollPane = new JScrollPane();
    scrollPane.setBounds(267, 54, 236, 177);
    frame.getContentPane().add(scrollPane);

    table = new JTable();
    scrollPane.setViewportView(table);
```

```

JPanel panel_1 = new JPanel();

panel_1.setBorder(new TitledBorder(null, "Search", TitledBorder.LEADING,
TitledBorder.TOP, null, null));

panel_1.setBounds(10, 229, 247, 56);

frame.getContentPane().add(panel_1);

panel_1.setLayout(null);


JLabel lblNewLabel_1_1_1 = new JLabel("Book ID");
lblNewLabel_1_1_1.setBounds(10, 23, 66, 15);
lblNewLabel_1_1_1.setFont(new Font("Tahoma", Font.BOLD, 12));
panel_1.add(lblNewLabel_1_1_1);


textField = new JTextField();
textField.addKeyListener(new KeyAdapter() {
    @Override
    public void keyReleased(KeyEvent e) {
        try {
            String id = textField.getText();

            pst = con.prepareStatement("select
book_name,edition,price from Book where id=?");
            pst.setString(1, id);
            ResultSet rs = pst.executeQuery();

            if(rs.next() == true) {
                String name = rs.getString(1);
                String edition = rs.getString(2);
                String price = rs.getString(3);

                txtbname.setText(name);

```



```

        txtedition.setText(edition);
        txtprice.setText(price);
    }
    else {
        txtbname.setText("");
        txtedition.setText("");
        txtprice.setText("");
    }
}
catch(SQLException el) {
    el.printStackTrace();
}
}

});
textField.setBounds(99, 21, 138, 20);
textField.setColumns(10);
panel_1.add(textField);

JButton btnNewButton_2 = new JButton("Update");
btnNewButton_2.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {

        String bname,edition,price,bid;

        bname = txtbname.getText();
        edition = txtedition.getText();
        price = txtprice.getText();
        bid = textField.getText();

        try {

```

```

        pst = con.prepareStatement("update Book set
book_name=?,edition=?,price=? where id=?");

        pst.setString(1,bname);
        pst.setString(2, edition);
        pst.setString(3, price);
        pst.setString(4, bid);
        pst.executeUpdate();
        JOptionPane.showMessageDialog(null, "Record
Updated!!!");

        table_load();
        txtbname.setText("");
        txtedition.setText("");
        txtprice.setText("");
        txtbname.requestFocus();
    }
    catch(SQLException el) {
        el.printStackTrace();
    }
}

});

btnNewButton_2.setBounds(285, 243, 77, 42);
frame.getContentPane().add(btnNewButton_2);

JButton btnNewButton_3 = new JButton("Delete");
btnNewButton_3.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {

        String bid;
        bid = textField.getText();

        try {

```

```

        id=?");

        pst = con.prepareStatement("delete from Book where

        pst.setString(1, bid);
        pst.executeUpdate();
        JOptionPane.showMessageDialog(null, "Record
Deleted!!!");

        table_load();
        txtbname.setText("");
        txtedition.setText("");
        txtprice.setText("");
        txtbname.requestFocus();
    }
    catch(SQLException el) {
        el.printStackTrace();
    }

}

});
btnNewButton_3.setBounds(397, 243, 77, 42);
frame.getContentPane().add(btnNewButton_3);
}
}

```

Output :-

BOOK SHOP

Registration
Book Name
Edition
Price

id	book_n...	edition	price
1	shivchat...	1	19999

Search
Book ID

BOOK SHOP

Registration
Book Name
Edition
Price

id	book_n...	edition	price
1	shivchat...	1	19999

Search
Book ID

Click To save record

BOOK SHOP

Registration

Book Name

Edition

Price

Save

Clear

Exit

id	book_n...	edition	price
1	shivchat...	1	19999

Search

Book ID

Update

Delete

Message



Record Added!!!

OK

BOOK SHOP

Registration

Book Name

Edition

Price

Save

Clear

Exit

id	book_n...	edition	price
1	shivchat...	1	19999
3	DBMS	1	999

Record with respective book id appears in the above Text fields.

Search

Book ID

Update

Delete

BOOK SHOP

Registration

Book Name

Edition

Price

Search

Book ID

id	book_n...	edition	price
1	shivchat...	1	19999
3	DBMS	1	999

Press the update
Button

BOOK SHOP

Registration

Book Name

Edition

Price

Search

Book ID

id	book_n...	edition	price
1	shivchat...	1	19999
3	DBMS	1	1999

Message

×



Record Updated!!!

BOOK SHOP

Registration

Book Name

Edition

Price

Save

Clear

Exit

Search

Book ID

id	book_n...	edition	price
1	shivchat...	1	19999
3	DBMS	1	1999

Enter Id of Record to be deleted

Update

Delete

BOOK SHOP

Registration

Book Name

Edition

Price

Save

Clear

Exit

Search

Book ID

id	book_n...	edition	price
1	shivchat...	1	19999
3	DBMS	1	1999

Update

Delete

Message



Record Deleted!!!

OK