



# [pertemuan 11]

## **Identitas**

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Kelas : AURL Repository Github

https://github.com/Fauzan2617/pp2-

 $2024\_223040033\_A/tree/main/Latihan\%20 Pertemuan\%20-\%2011/Pertemuan\%2010/jfc-ware for the contraction of th$ 

mvc

## Penjelasan Kode

Jika berkas tidak memiliki output, gunakan tabel ini.

[UserController.java]

```
[package controller;
 import model.*;
import view.UserView;
import javax.swing.*;
import java.awt.event.ActionEvent; import
java.awt.event.ActionListener; import
java.util.List;
public class UserController {
private UserView view;
private UserMapper mapper;
    public UserController(UserView view, UserMapper mapper) {
this.view = view;
                          this.mapper = mapper;
         this.view.addAddUserListener(new AddUserListener());
this.view.addRefreshListener(new RefreshListener());
    class AddUserListener implements ActionListener {
        public void actionPerformed(ActionEvent e) {
            String name = view.getNameInput();
            String email = view.getEmailInput();
if (!name.isEmpty() && !email.isEmpty()) {
                User user = new User();
user.setName(name);
                                   user.setEmail(email);
mapper.insertUser(user);
                JOptionPane.showMessageDialog(view, "User added
successfully!");
                      } else {
               JOptionPane.showMessageDialog(view, "Please fill in all
fields.");
                      }
       }
    class RefreshListener implements ActionListener {
        public void actionPerformed(ActionEvent e) {
List<User> users = mapper.getAllUsers();
            String[] userArray = users.stream()
                .map(u -> u.getName() + " (" + u.getEmail() + ")")
                .toArray(String[]::new);
view.setUserList(userArray);
       }
    }
}
1
```

#### Penjelasan

[Code dari user Controller]





## [MyBatisUtil.java]

```
[package model;
import
org.apache.ibatis.io.Resources;
import org.apache.ibatis.session.*;
import java.io.IOException;
public class MyBatisUtil {
   private static SqlSessionFactory sqlSessionFactory;
try {
            sqlSessionFactory = new SqlSessionFactoryBuilder()
.build(Resources.getResourceAsStream("mybatisconfig.xml"));
        } catch (IOException e) {
            e.printStackTrace();
        }
          public static SqlSession
    }
getSqlSession() {          return
sqlSessionFactory.openSession();
```

#### Penjelasan

[Model sql]

### [UserMapper.java]

```
[package model;
```

```
import java.util.List;
import org.apache.ibatis.annotations.*;
public interface UserMapper
{
    @Select("SELECT * FROM users")
List<User> getAllUsers();

    @Insert("INSERT INTO users (name, email) VALUES (#{name}, #{email})")
void insertUser(User user);
}
]
```

## Penjelasan

[Model sql]



## [User.java]

```
[package model;
  public class User {
  private int id;
  private String name;
  private String email;

    // Getters dan Setters
    public int getId() { return id; }
  public void setId(int id) { this.id = id; }
  public String getName() { return name; }
    public void setName(String name) { this.name = name; }
  public String getEmail() { return email; }
    public void setEmail(String email) { this.email = email; }
}
```

#### Penjelasan

[Model sql user]

## [UserView.java]

```
[package view;
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionListener;

public class UserView extends JFrame {
    private JTextField txtName = new JTextField(20);
private JTextField txtEmail = new JTextField(20);
private JButton btnAdd = new JButton("Add User");
private JButton btnRefresh = new JButton("Refresh");
private JList<String> userList = new JList<>();
```



```
private DefaultListModel<String> listModel = new
DefaultListModel<>();
   public UserView() {
       setTitle("User Management");
setSize(400, 300);
       setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
       JPanel panel = new JPanel(new GridLayout(5, 1));
panel.add(new JLabel("Name:"));
panel.add(txtName);
       panel.add(new JLabel("Email:"));
panel.add(txtEmail);
       JPanel buttonPanel = new JPanel();
buttonPanel.add(btnAdd);
buttonPanel.add(btnRefresh);
panel.add(buttonPanel);
        userList.setModel(listModel);
add(panel, BorderLayout.NORTH);
      add(new JScrollPane(userList),
return txtName.getText();
getNameInput() {
   } public String
getEmailInput() {
                        return
txtEmail.getText();
   public void setUserList(String[] users)
        listModel.clear();
(String user: users) {
listModel.addElement(user);
   public void addAddUserListener(ActionListener listener)
        btnAdd.addActionListener(listener); }
   public void addRefreshListener(ActionListener listener)
        btnRefresh.addActionListener(listener);
}
]
```

#### Penjelasan

[View user]

#### Penjelasan Kode

Jika **berkas memiliki output**, gunakan tabel ini.



## [main.java]

```
[import model.MyBatisUtil;
import model.UserMapper;
import org.apache.ibatis.session.SqlSession;
import view.UserView;
import controller.UserController;

public class Main {
    public static void main(String[] args) {
        SqlSession session = MyBatisUtil.getSqlSession();
        UserMapper mapper = session.getMapper(UserMapper.class);
        UserView view = new UserView();
new UserController(view, mapper);

        view.setVisible(true);
    }
}
```

## Penjelasan

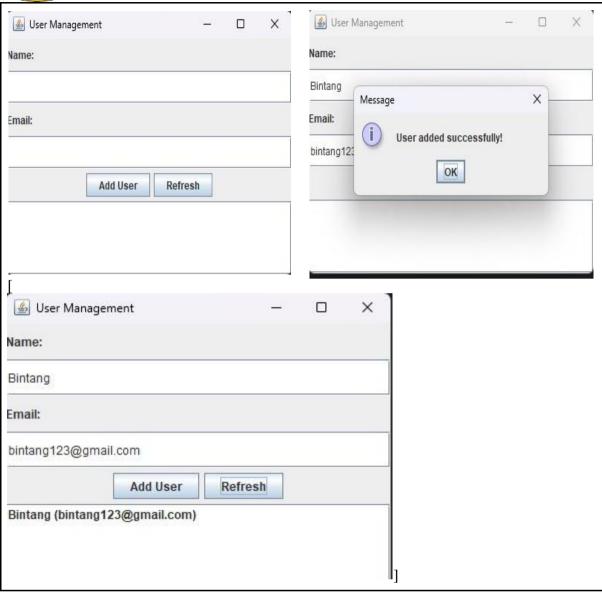
[output main jfc-mvc]

## Output



# Tugas Praktikum Pemrograman II





#### Catatan:

- Silakan modifikasi dan tambahkan informasi sesuai dengan proyek yang Anda kerjakan baik pada tanda [kalimat].
- Sesuaikan nama file laporan dengan format **Tugas[Pertemuan ke-X]\_PP1\_NPM** Contoh: Tugas[P10]\_PP1\_203040104
- Sesuaikan judul laporan dengan format **Laporan Tugas Pertemuan ke-X** Contoh: Laporan Tugas Pertemuan ke-10