**Code Client**

**Phần: login/register**

import javax.swing.\*;  
import java.awt.\*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
  
class FTPClientApp {  
 public static void main(String[] args) {  
 SwingUtilities.*invokeLater*(() -> new LoginFrame());  
 }  
}  
  
class LoginFrame extends JFrame {  
 private JTextField usernameField;  
 private JPasswordField passwordField;  
  
 public LoginFrame() {  
 setTitle("FTP Client - Login");  
 setDefaultCloseOperation(JFrame.*EXIT\_ON\_CLOSE*);  
 setSize(350, 220);  
 setLocationRelativeTo(null);  
  
 JPanel panel = new JPanel(new GridLayout(3, 2, 10, 10));  
 panel.setBorder(BorderFactory.*createEmptyBorder*(20, 20, 10, 20));  
  
 panel.add(new JLabel("Username:"));  
 usernameField = new JTextField();  
 panel.add(usernameField);  
  
 panel.add(new JLabel("Password:"));  
 passwordField = new JPasswordField();  
 panel.add(passwordField);  
  
 add(panel, BorderLayout.*CENTER*);  
  
 JPanel buttonPanel = new JPanel(new FlowLayout(FlowLayout.*CENTER*, 10, 10));  
 JButton loginButton = new JButton("Login");  
 JButton registerButton = new JButton("Register");  
 JButton anonymousButton = new JButton("Anonymous");  
 buttonPanel.add(loginButton);  
 buttonPanel.add(registerButton);  
 buttonPanel.add(anonymousButton);  
  
 add(buttonPanel, BorderLayout.*SOUTH*);  
  
 loginButton.addActionListener(e -> {  
 String user = usernameField.getText();  
 String pass = new String(passwordField.getPassword());  
 JOptionPane.*showMessageDialog*(this, "Login: " + user);  
 new MainDashboard(user);  
 dispose();  
 });  
  
 registerButton.addActionListener(e -> {  
 new RegisterFrame();  
 dispose();  
 });  
  
 anonymousButton.addActionListener(e -> {  
 new MainDashboard("Anonymous");  
 dispose();  
 });  
 setVisible(true);  
 }  
}  
  
class RegisterFrame extends JFrame {  
 private JTextField usernameField;  
 private JPasswordField passwordField;  
 private JTextField emailField;  
 private JTextField otpField;  
  
 public RegisterFrame() {  
 setTitle("FTP Client - Register");  
 setDefaultCloseOperation(JFrame.*EXIT\_ON\_CLOSE*);  
 setSize(350, 300);  
 setLocationRelativeTo(null);  
  
 JPanel panel = new JPanel(new GridLayout(5, 2, 10, 10));  
 panel.setBorder(BorderFactory.*createEmptyBorder*(20, 20, 20, 20));  
  
 panel.add(new JLabel("Username:"));  
 usernameField = new JTextField();  
 panel.add(usernameField);  
  
 panel.add(new JLabel("Password:"));  
 passwordField = new JPasswordField();  
 panel.add(passwordField);  
  
 panel.add(new JLabel("Email:"));  
 emailField = new JTextField();  
 panel.add(emailField);  
  
 panel.add(new JLabel("OTP:"));  
 otpField = new JTextField();  
 panel.add(otpField);  
  
 JButton sendOtpButton = new JButton("Send OTP");  
 JButton verifyButton = new JButton("Verify");  
 JButton backButton = new JButton("Back");  
  
 JPanel buttonPanel = new JPanel(new FlowLayout());  
 buttonPanel.add(sendOtpButton);  
 buttonPanel.add(verifyButton);  
 buttonPanel.add(backButton);  
  
 add(panel, BorderLayout.*CENTER*);  
 add(buttonPanel, BorderLayout.*SOUTH*);  
  
 sendOtpButton.addActionListener(e -> {  
 JOptionPane.*showMessageDialog*(this, "OTP sent to: " + emailField.getText());  
 });  
  
 verifyButton.addActionListener(e -> {  
 String otp = otpField.getText();  
 JOptionPane.*showMessageDialog*(this, "Verifying OTP: " + otp);  
 });  
  
 backButton.addActionListener(e -> {  
 new LoginFrame();  
 dispose();  
 });  
  
 setVisible(true);  
 }  
}

**phần giao diện sau khi đăng nhập:**

import javax.swing.\*;  
import java.awt.\*;  
  
public class MainDashboard extends JFrame {  
  
 public MainDashboard(String username) {  
 setTitle("Welcome - " + username);  
 setSize(1200, 800);  
 setDefaultCloseOperation(JFrame.*EXIT\_ON\_CLOSE*);  
 setLocationRelativeTo(null);  
  
 JPanel panel = new JPanel(new BorderLayout());  
 JLabel welcomeLabel = new JLabel("Hello, " + username);  
 welcomeLabel.setHorizontalAlignment(SwingConstants.*CENTER*);  
  
 panel.add(welcomeLabel, BorderLayout.*NORTH*);  
  
 if ("Anonymous".equalsIgnoreCase(username)) {  
 panel.add(new JLabel("You are logged in with limited access."), BorderLayout.*CENTER*);  
 // Disable upload, share... nếu muốn  
 } else {  
 // Thêm giao diện quản lý file  
 }  
  
 add(panel);  
 setVisible(true);  
 }  
  
}