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Program Testing: Screenshot based functionality testing with a short description of each test. Remember to test every edge case (e.g., CSV does not exist):

1. Normal Operation: The CSV file exists at the specified path and contains well-formed data.

A screen shot of a computer

Description automatically generated

1. Edge Case - Nonexistent File: The specified CSV file does not exist.

A screenshot of a computer screen

Description automatically generated

Copy and paste your code below:

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.io.BufferedReader;

import java.io.FileReader;

import java.io.IOException;

public class App extends JFrame {

    private JTextArea textArea;

    public App() {

        // JFrame settings

        setTitle("CSV Loader Application"); // Remember to replace "Your Name" with your actual name.

        setSize(500, 500);

        setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

        setLayout(new BorderLayout());

        // Create a new button named loadButton with the text "Load CSV".

        JButton loadButton = new JButton("Load CSV");

        // Initialize the textArea that was declared at the class level.

        textArea = new JTextArea();

        textArea.setEditable(false); // Make the textArea uneditable.

        // Create a JScrollPane that contains the textArea, enabling scrolling.

        JScrollPane scrollPane = new JScrollPane(textArea);

        // Add an ActionListener to loadButton to load the CSV when clicked.

        loadButton.addActionListener(e -> loadCsv("C:\\Users\\diksh\\Desktop\\COIS 2240H\\Lab\_3\\bank\_accounts.csv"));

        // Example styling for loadButton and textArea.

        loadButton.setBackground(Color.LIGHT\_GRAY);

        textArea.setFont(new Font("Monospaced", Font.PLAIN, 12));

        textArea.setForeground(Color.DARK\_GRAY);

        textArea.setBackground(Color.WHITE);

        // Add the loadButton and scrollPane to the JFrame.

        add(loadButton, BorderLayout.NORTH);

        add(scrollPane, BorderLayout.CENTER);

    }

    private void loadCsv(String filePath) {

        try (BufferedReader br = new BufferedReader(new FileReader(filePath))) {

            StringBuilder content = new StringBuilder();

            String line;

            while ((line = br.readLine()) != null) {

                content.append(line).append("\n");

            }

            textArea.setText(content.toString());

        } catch (IOException e) {

            JOptionPane.showMessageDialog(null, "Failed to load the CSV file.", "Error", JOptionPane.ERROR\_MESSAGE);

        }

    }

    public static void main(String[] args) {

        SwingUtilities.invokeLater(() -> new App().setVisible(true));

    }

}

Prove using a screenshot that you cloned the github repository:

A computer screen with text on it

Description automatically generated