GURU NANAK COLLEGE BUDHLADA

DEPARTMENT: COMPUTER

NAME OF PROJECT: Text File Creator

Submitted to: Submitted by:

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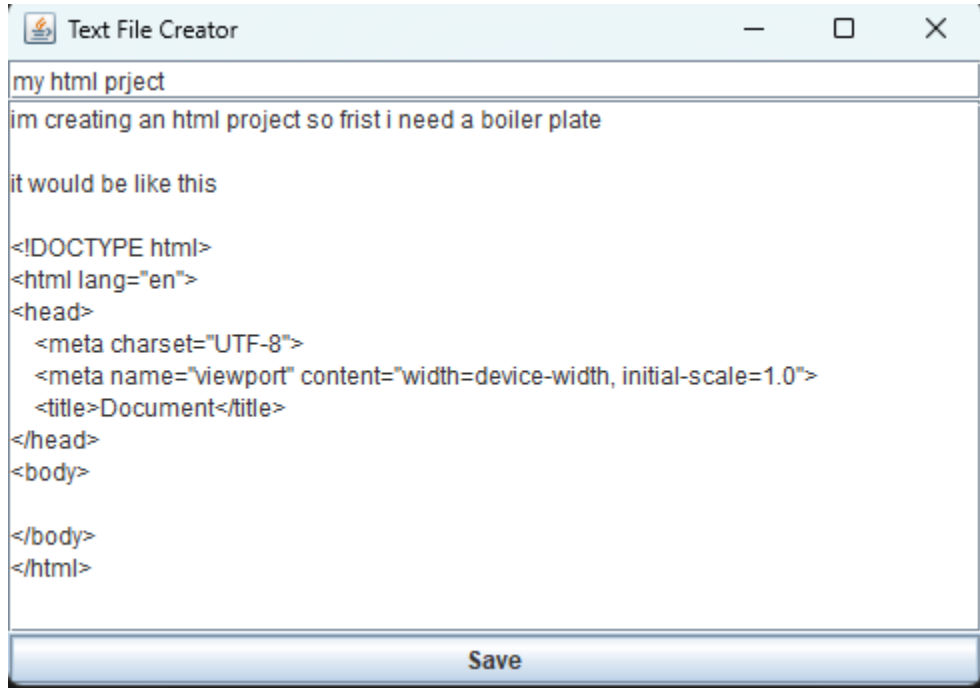   **Harminder kaur(321843)**

Table of Contents

1. Introduction

The Text File Creator Application is a simple tool designed for creating text files.this application provides a simple minimal user-friendly interface for creating and saving text files in both plain text and serialized formats.
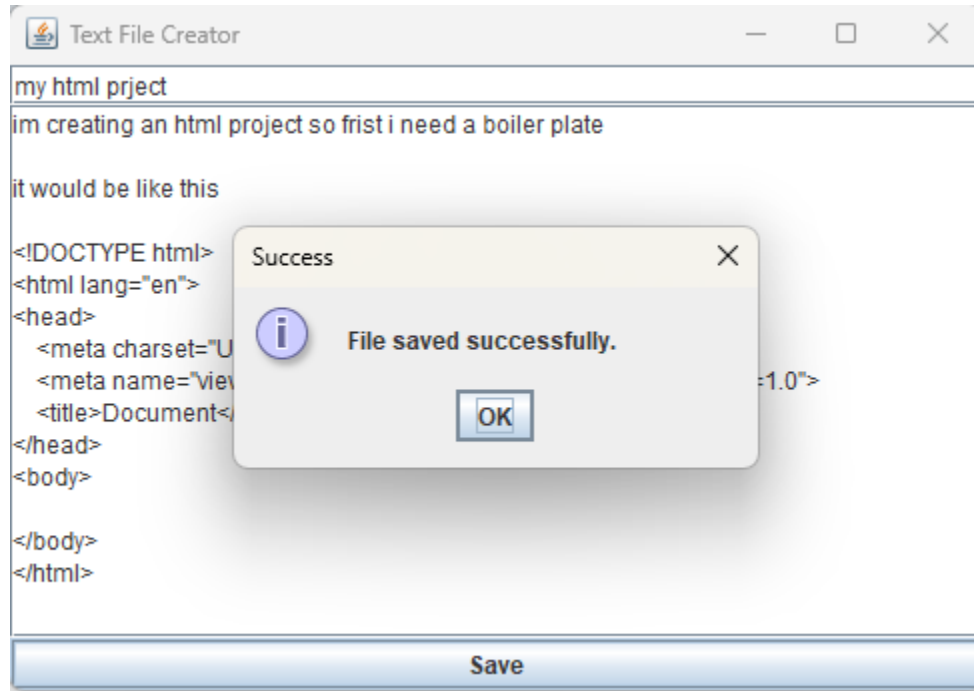
Preview: 1

2. Functionality

- **GUI Interface**: built using Java Swing, providing a simple view for user
- **File Creation**: you can specify a file name and input text content
- **Saving Options**: The application allows users to save the created text files .txt format.
- **Error Handling**: used try and catch blocks

Preview 2:

3. Code Explanation

The code is structured into a single Java class, which extends the JFrame class to create the GUI window.

GUI Setup: Sets up the graphical user interface with text fields for file name input, a text area for content input, and a save button.

Saving Functionality: logic for saving the text content into a text file with the specified file name.

Main Method: Initialize the application by invoking the GUI setup within the Swing

CODE

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.io.*;


public class TextFileCreator extends JFrame {
   private JTextField fileNameField;

   private JTextArea contentArea;

   public TextFileCreator() {

      setTitle("Text File Creator");
      setSize(400, 300);

      setDefaultCloseOperation(EXIT_ON_CLOSE);

      JPanel panel = new JPanel();
      panel.setLayout(new BorderLayout());



      JLabel fileNameLabel = new JLabel("File Name:");
      fileNameField = new JTextField(20);
      contentArea = new JTextArea();


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

            saveFile();

         }
      });

      panel.add(fileNameLabel, BorderLayout.NORTH);

      panel.add(fileNameField, BorderLayout.NORTH);
```

```java
        panel.add(new JScrollPane(contentArea), BorderLayout.CENTER);

        panel.add(saveButton, BorderLayout.SOUTH);

        add(panel);
        setVisible(true);
    }

    private void saveFile() {
        String fileName = fileNameField.getText();

        String content = contentArea.getText();


        if (fileName.isEmpty()) {
            JOptionPane.showMessageDialog(this, "Please enter a file name.", "Error",
JOptionPane.ERROR_MESSAGE);
            return;
        }



        if (!fileName.endsWith(".txt")) {
            fileName += ".txt";
        }

        try {
            File file = new File(fileName);
            FileWriter writer = new FileWriter(file);
            writer.write(content);
            writer.close();


            JOptionPane.showMessageDialog(this, "File saved successfully.", "Success",
JOptionPane.INFORMATION_MESSAGE);
        } catch (IOException ex) {
            JOptionPane.showMessageDialog(this, "Error saving file: " + ex.getMessage(), "Error",
JOptionPane.ERROR_MESSAGE);
        }
    }
```

```java
    public static void main(String[] args) {
        SwingUtilities.invokeLater(new Runnable() {
            public void run() {
                new TextFileCreator();
            }
        });
    }
}
```

4. Guide and Rules

- Usage is pretty simple
- Insert file name in upper text bar
- And type your text that you want to save. below the name of file
- When you are done typing your text just click save

6 . Conclusion

It is vary simple text file creator app . it has a simple and friendly gui . it can save files in form of **.txt** you can use it save your notes scripts or anything in form of text