

A Course Based Project Report on Submitted to the

# **RESUME BUILDER APPLICATION**

**Department of CSE- (CYS, DS) AND AI&DS**

in partial fulfilment of the requirements for the completion of course  
JAVA PROGRAMMING LABORATORY (22PC21T201)

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING DATA SCIENCE**

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**CERTIFICATE**

This is to certify that the project report entitled **“RESUME BUILDER APPLICATION”** is a bonafide work done under our supervision and is being submitted by **P.Hansini (22071A6746), P.Rachana(22071A6748), Radhika Reddy (22071A6750), Sakshi Erumalla (22071A6752)** in partial fulfilment for the award of the degree of **Bachelor of Technology** in **COMPUTER SCIENCE AND ENGINEERING DATA SCIENCE**, of the **VNR VJiet**, Hyderabad during the academic year 2023-2024.

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## DECLARATION

We declare that the course based project work entitled “**Resume Builder Application**” submitted in the Department of Information Technology, Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, in partial fulfilment of the requirement for the award of the degree of **Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING DATA SCIENCE** is a bonafide record of our own work carried out under the supervision of MRS. Ashalatha.G, **Assistant Professor, Dept. of CSE- (CYS, DS) AND AI&DS, VNRVJIET**. Also, we declare that the matter embodied in this thesis has not been submitted by us in full or in any part thereof for the award of any degree/diploma of any other institution or university previously.  
Place: Hyderabad.

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We express our deep sense of gratitude to our beloved Professor Dr. M. RAJA SEKHAR, Associate Professor and Head, Dept. of CSE- (CYS, DS) AND AI&DS, VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad-500090 for the valuable guidance and suggestions, keen interest and through encouragement extended throughout the period of project work.

We take immense pleasure to express our deep sense of gratitude to our beloved Guide,

MRS. Ashalatha.G, Assistant Professor, Dept. of CSE- (CYS, DS) AND AI&DS, VNRVJIET her valuable suggestions and rare insights, for constant source of encouragement and inspiration throughout my project work.

We express our thanks to all those who contributed for the successful completion of our project work.

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## ABSTRACT

The Resume Builder is a Java-based application designed to simplify the process of creating professional resumes. It features an intuitive graphical user interface where users can input their personal information, educational background, skills, languages known, and work experience. Upon clicking the "Generate Resume" button, the application dynamically generates an aesthetically pleasing HTML-formatted resume. This project aims to provide individuals with a user-friendly tool to enhance their resume creation experience, promoting efficiency and professionalism in the job application process.

This Java application leverages the capabilities of the Graphical User Interface (GUI) to facilitate seamless interaction, making it accessible to users with varying technical backgrounds. By automating the resume generation process and incorporating visually appealing design elements, the Resume Builder contributes to a more efficient and visually appealing representation of an individual's qualifications, ultimately aiding in creating a positive impression during the job search process.

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## **INTRODUCTION**

### **1.PROBLEM STATEMENT**

Crafting a professional resume is a common challenge faced by job seekers. The Resume Builder, a Java-based application, seeks to simplify this process. By providing an intuitive graphical interface for inputting personal and professional details, it aims to streamline resume creation, offering users an efficient and visually appealing solution for showcasing their qualifications.

### **2.OBJECTIVE**

- Develop a user interface using Java's AWT and Swing libraries for seamless interaction.
- Enable users to input personal details, education, skills, languages, and work experience.
- Implement a resume generation mechanism that converts user input into an HTML-based resume.
- Style the generated resume using CSS for a professional and visually appealing layout.
- Integrate event handling to trigger resume generation upon button click.
- Utilize file I/O to save the generated HTML resume locally.
- Provide users with the convenience of automatically opening the generated resume in their default web browser.

The successful implementation of these objectives will transform the Resume Builder application into a comprehensive, tech-enabled platform, empowering users to create compelling resumes while adapting to the evolving needs of the job market.

## SOURCE CODE

```
import java.awt.*;
import java.awt.event.*;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;

public class ResumeBuilder extends Frame {

    private TextField nameField, phoneField, emailField, educationField, skillsField,
    languagesField, experienceField;

    public ResumeBuilder() {
        setTitle("Resume Builder");
        setSize(400, 400);
        setLayout(new GridLayout(8, 2));

        add(new Label("Name: "));
        nameField = new TextField();
        add(nameField);

        add(new Label("Phone: "));
        phoneField = new TextField();
        add(phoneField);

        add(new Label("Email: "));
```



```
emailField = new TextField();
```

```
add(emailField);
```

```
add(new Label("Education: "));
```

```
educationField = new TextField();
```

```
add(educationField);
```

```
add(new Label("Skills: "));
```

```
skillsField = new TextField();
```

```
add(skillsField);
```

```
add(new Label("Languages Known: "));
```

```
languagesField = new TextField();
```

```
add(languagesField);
```

```
add(new Label("Experience: "));
```

```
experienceField = new TextField();
```

```
add(experienceField);
```

```
Button generateButton = new Button("Generate Resume");
```

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

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

```
generateResume();
```

```
}
```

```
});
```

```
add(generateButton);
```

```

addWindowListener(new WindowAdapter() {
    public void windowClosing(WindowEvent windowEvent) {
        System.exit(0);
    }
});

```

```

setVisible(true);
}

```

```

private void generateResume() {
    String name = nameField.getText();
    String phone = phoneField.getText();
    String email = emailField.getText();
    String education = educationField.getText();
    String skills = skillsField.getText();
    String languages = languagesField.getText();
    String experience = experienceField.getText();

```

```

    String htmlContent = "<html>\n" +
        "<head>\n" +
        "<meta charset=\"UTF-8\">\n" +
        "<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">\n" +
        "<title>" + name + "'s Resume</title>\n" +
        "<style>\n" +
        "body {\n" +

```

```

" margin: 0;\n" +
" padding: 0;\n" +
" font-family: 'Arial', sans-serif;\n" +
" display: flex;\n" +
" height: 100vh;\n" +
" background-color: #f2f2f2;\n" +
" margin-left: 100px;\n" +
"}\n" +
"\n" +
".a4-sheet {\n" +
" display: flex;\n" +
" margin: 20px;\n" +
" border: 1px solid #ccc;\n" +
" box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);\n" +
"}\n" +
"\n" +
".left-section,\n" +
".right-section {\n" +
" padding: 20px;\n" +
" display: flex;\n" +
" flex-direction: column;\n" +
" justify-content: center;\n" +
" align-items: center;\n" +
" font-size: 18px;\n" +
"}\n" +
"\n" +

```

```

".left-section {\n" +
"  flex: 2;\n" +
"  background-color: #92d036;\n" +
"  color: #171616;\n" +
"  border: 3px solid #000000;\n" +
"}\n" +
"\n" +
".right-section {\n" +
"  flex: 2.9;\n" +
"  background-color: #000000;\n" +
"  text-align: center;\n" +
"  color: #c2c1c1;\n" +
"  border: 3px solid #000000;\n" +
"}\n" +
"</style>\n" +
"</head>\n" +
"<body>\n" +
"<div class=\"a4-sheet\">\n" +
"  <div class=\"left-section\">\n" +
"    <img src=\"https://upload.wikimedia.org/wikipedia/commons/thumb/f/f5/Circle-
icons-flower.svg/768px-Circle-icons-flower.svg.png\" width=\"200px\" alt=\"\">\n" +
"    <h2>\" + name + "</h2>\n" +
"    <p>Phone: \" + phone + "</p>\n" +
"    <p>Email: \" + email + "</p>\n" +
"  </div>\n" +
"  <div class=\"right-section\">\n" +
"    <h2>Skills</h2>\n" +

```

```

" <p>" + skills + "</p>\n" +
"\n" +
" <h2>Education</h2>\n" +
" <p>" + education + "</p>\n" +
"\n" +
" <h2>Languages Known</h2>\n" +
" <p>" + languages + "</p>\n" +
"\n" +
" <h2>Experience</h2>\n" +
" <p>" + experience + "</p>\n" +
" </div>\n" +
"</div>\n" +
"</body>\n" +
"</html>";

```

```

try {
    File htmlFile = new File("resume.html");
    FileWriter writer = new FileWriter(htmlFile);
    writer.write(htmlContent);
    writer.close();

    System.out.println("Resume generated successfully. Opening 'resume.html'...");

    // Open the HTML file using the default web browser
    Desktop.getDesktop().browse(htmlFile.toURI());
} catch (IOException e) {
    e.printStackTrace();
}

```

```
}
```

```
}
```

```
public static void main(String[] args) {
```

```
    new ResumeBuilder();
```

```
}
```

```
}
```



Proposed System Outputs

Resume Builder

Name

Phone

Email

Education

Skills

Languages Known

Experience

Generate Resume

John Doe

+91 90001 30012

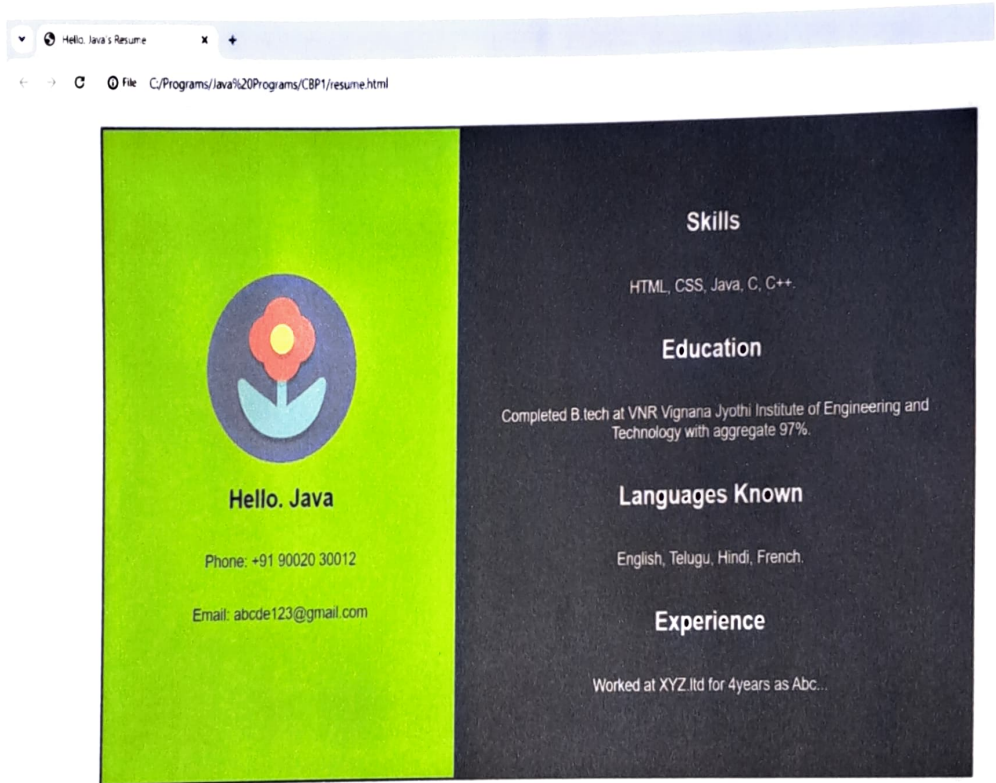
abode123@gmail.com

Completed B Tech at VIT Vignana Jyothi Institute of Engineering and Technology with aggregate 87%

HTML, CSS, Java, C, C++

English, Telugu, Hindi, French

Worked at XYZ Ltd for 4 years as ABC



## CONCLUSION

The Resume Builder application not only streamlines the process of creating resumes but also enhances the presentation of vital information. By combining Java's robust features with HTML and CSS, this project offers users a versatile tool for crafting resumes that stand out in today's competitive job market. The application's intuitive interface and automated processes contribute to a seamless user experience, making it a valuable asset for individuals seeking to showcase their qualifications and skills effectively.