## **Copilot**

# **Resume Builder Application Documentation**

#### Overview

The Resume Builder application is a web-based tool that allows users to create, edit, and preview their resumes. It offers a user-friendly interface for inputting resume details, supports drag-and-drop reordering of sections, and includes functionality to save resume data to local storage and generate a PDF version.

# Requirements

### **Two Layouts:**

- Editor Layout: On the left side, where users can fill in their resume details.
- **Preview Layout:** On the right side, where users can see a live preview of their resume.

### **State Management:**

• Use TanStack Store for managing the state of the application.

## **Save and Restore Functionality:**

- A "Save" button at the top to store resume data in local storage.
- On revisiting the website, the application should restore data from local storage to the editor fields and update the preview accordingly.

## **Drag and Drop Reordering:**

• Ability to reorder sections (Work Experience, Education, Skills, Awards, and Volunteering) using drag-and-drop functionality.

# **PDF Export:**

• A button to generate a PDF of the resume in A4 page size using html2pdf.js.

### **Sections and Fields**

#### **Basic Information Section:**

- Name: Input field for the user's full name.
- Contact Information: Fields for phone number, email, and location.
- **Professional Title:** Input field for the user's current job title or desired position.

# **Work Experience Section:**

- Company Name: Input field for the name of the company.
- **Job Title:** Input field for the user's job title.
- Start and End Dates: Date pickers for the start and end dates of employment.
- **Job Description:** Text area or rich text editor for describing job responsibilities and achievements.
- Current Job Indicator: Checkbox or switch to indicate if the user is currently working at the job.
- Drag and Drop Reordering: Ability to reorder work experience using drag-and-drop functionality.

# **Education Section:**

- Institution Name: Input field for the name of the educational institution.
- **Degree:** Input field for the degree or certification obtained.
- Field of Study: Input field for the field of study.
- Start and End Dates: Date pickers for the start and end dates of education.
- Current Study Indicator: Checkbox or switch to indicate if the user is currently studying.
- Drag and Drop Reordering: Ability to reorder using drag-and-drop functionality.

# **Skills Section:**

- **Skill Name:** Input field for the name of the skill.
- Proficiency Level: Option to add a proficiency level (e.g., beginner, intermediate, expert) if applicable.
- Drag and Drop Reordering: Ability to reorder skills using drag-and-drop functionality.

# **Summary or Objective Section:**

• Summary: Text area or rich text editor for a brief summary or career objective.

# **Awards and Achievements Section:**

- Award Title: Input field for the title of the award or achievement.
- Awarder: Input field for the name of the awarding body or organization.
- Date: Date picker for the date the award was received.
- Description: Text area or rich text editor for describing the award or achievement.
- Drag and Drop Reordering: Ability to reorder using drag-and-drop functionality.

# **Volunteering Section:**

- Organization Name: Input field for the name of the organization.
- Role: Input field for the user's role or position.
- Start and End Dates: Date pickers for the start and end dates of the volunteering experience.
- **Description:** Text area or rich text editor for describing the volunteering experience.
- Current Volunteering Indicator: Checkbox or switch to indicate if the user is currently volunteering.

### **Additional Features**

## **Template Selection:**

- Ability to choose from multiple resume templates.
- Preview of the selected template.

## **Export and Import Functionality:**

- Export to PDF: Option to export the resume as a PDF file.
- **Export to JSON:** Option to export the resume data as a JSON file.
- Import from JSON: Option to import resume data from a JSON file.

# **Error Handling:**

• Error boundaries to catch and display errors gracefully.

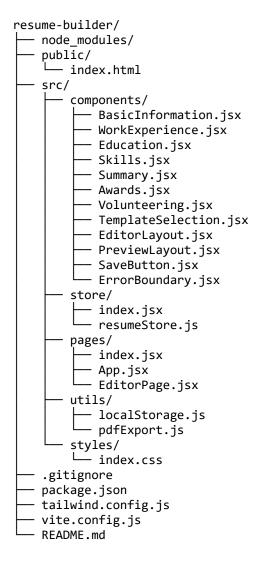
### **Responsive Design:**

• Ensure the resume builder is usable on both mobile and desktop devices.

#### **User Feedback:**

• Toast notifications for actions such as saving, exporting, and importing data.

## **Project Structure**



# **Explanation of Key Files**

- components/BasicInformation.jsx: Input fields for user's full name, contact information, and professional title.
- **components/WorkExperience.jsx:** Input fields for company name, job title, start and end dates, job description, and current job indicator. Includes drag-and-drop reordering.
- **components/Education.jsx:** Input fields for institution name, degree, field of study, start and end dates, and current study indicator. Includes drag-and-drop reordering.
- components/Skills.jsx: Input fields for skill name and proficiency level. Includes drag-and-drop reordering.
- components/Summary.jsx: Text area for summary or career objective.
- components/Awards.jsx: Input fields for award title, awarder, date, and description. Includes drag-and-drop reordering.
- components/Volunteering.jsx: Input fields for organization name, role, start and end dates, and description. Includes drag-and-drop reordering.
- components/TemplateSelection.jsx: Options for selecting resume templates.
- components/EditorLayout.jsx: Combines all the editor sections and provides the layout for the editor.
- components/PreviewLayout.jsx: Displays the preview of the resume based on the data from the editor.
- components/SaveButton.jsx: Button to save the resume data to local storage and generate a PDF.
   components/ErrorBoundary.jsx: Component to catch and display errors gracefully.
- store/index.jsx: Entry point for TanStack Store.
- store/resumeStore.js: Defines the state and actions for managing resume data.
- pages/index.jsx: Entry point for the React app.
- pages/App.jsx: Main App component that includes routing and layout structure.
- pages/EditorPage.jsx: Main page for the resume editor, includes both the editor and preview layouts.
- utils/localStorage.js: Utility functions for saving to and loading from local storage.
- utils/pdfExport.js: Utility functions for exporting resume to PDF.
- **styles/index.css:** Main CSS file for global styles.

# **Getting Started**

1. Clone the repository:

```
git clone <repository-url>
cd resume-builder
```

2. Install dependencies:

npm install

3. Start the development server:

npm run dev

4. **Open the application:** Navigate to http://localhost:3000/ in your browser.

# **Summary**

The Resume Builder application provides a comprehensive solution for creating, editing, and previewing resumes. It includes features such as drag-and-drop reordering, PDF export, and local storage for saving and restoring resume data. The application is built using React, TanStack Store, and Tailwind CSS, ensuring a modern and responsive design.