Copilot

Project Overview

Resume Builder Application using React

Features:

1. Two Layouts:

- Editor Layout: Left side for users to fill in resume details.
- **Preview Layout:** Right side for live resume preview.

2. State Management:

• Use TanStack Store for state management.

3. Save and Restore Functionality:

- **Save Button:** Stores resume data in local storage.
- Restore Data: On revisiting, restores data from local storage to editor fields and updates preview.

4. Drag and Drop Reordering:

• Reorder sections (Work Experience, Education, Skills, Awards, Volunteering) using drag-and-drop.

Sections and Fields:

1. Basic Information Section:

- Name: Input for full name.
- Contact Information: Fields for phone number, email, location.
- Professional Title: Input for current job title or desired position.

2. Work Experience Section:

- Company Name: Input for company name.
- Job Title: Input for job title.
- Start and End Dates: Date pickers for employment dates.
- **Job Description:** Text area/rich text editor for job responsibilities and achievements.
- Current Job Indicator: Checkbox/switch for current job status.
- Drag and Drop Reordering: Reorder work experience.

3. Education Section:

- Institution Name: Input for educational institution name.
- **Degree:** Input for degree/certification.
- Field of Study: Input for field of study.
- Start and End Dates: Date pickers for education dates.
- Current Study Indicator: Checkbox/switch for current study status.
- Drag and Drop Reordering: Reorder education entries.

4. Skills Section:

- **Skill Name:** Input for skill name.
- **Proficiency Level:** Option to add proficiency level (beginner, intermediate, expert).
- **Drag and Drop Reordering:** Reorder skills.

5. Summary or Objective Section:

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

6. Awards and Achievements Section:

- Award Title: Input for award/achievement title.
- Awarder: Input for awarding body/organization.
- Date: Date picker for award date.
- **Description:** Text area/rich text editor for award description.
- Drag and Drop Reordering: Reorder awards.

7. Volunteering Section:

- **Organization Name:** Input for organization name.
- **Role:** Input for role/position.
- Start and End Dates: Date pickers for volunteering dates.
- **Description:** Text area/rich text editor for volunteering description.
- Current Volunteering Indicator: Checkbox/switch for current volunteering status.

Additional Features:

1. Template Selection:

- Choose from multiple resume templates.
- Preview selected template.

2. Export and Import Functionality:

• **Export to PDF:** Export resume as PDF.

- **Export to JSON:** Export resume data as JSON.
- **Import from JSON:** Import resume data from JSON.

3. Error Handling:

• Error boundaries to catch and display errors gracefully.

Implementation Plan:

1. Set up the project:

- Initialize a new React project.
- Install necessary dependencies (TanStack Store, React DnD, etc.).

2. Create the Layouts:

- Implement the Editor Layout with all required sections.
- Implement the Preview Layout for resume preview.

3. State Management:

- Use TanStack Store for state management.
- Implement actions to update, add, remove, and reorder sections.

4. Save and Restore Functionality:

- Implement the "Save" button to store data in local storage.
- On component mount, check for data in local storage and populate editor fields and preview.

5. Drag and Drop Functionality:

• Use React DnD for drag-and-drop reordering of sections.

6. Export and Import Functionality:

- Implement functions to export and import resume data in JSON format.
- Implement function to export the resume as a PDF.

7. Error Handling:

• Implement error boundaries to catch and display errors gracefully.

Initial Implementation Plan:

1. Set up the Project:

- Initialize a new React project.
- Install necessary dependencies:
 - TanStack Store for state management.
 - React DnD for drag-and-drop functionality.
 - Tailwind CSS for styling.
 - html2pdf.js for exporting to PDF.

2. Create the Editor Layout:

- Create components for each section:
 - Basic Information: components/BasicInformation.js
 - Work Experience: components/WorkExperience.js
 - Education: components/Education.js
 - Skills: components/Skills.js
 - Summary: components/Summary.js
 - Awards: components/Awards.js
 - Volunteering: components/Volunteering.js
- Combine these components in:
 - Editor Layout: components/EditorLayout.js

3. Create the Preview Layout:

- Create components for displaying each section.
- Combine these components in:
 - Preview Layout: components/PreviewLayout.js

4. Implement State Management with TanStack Store:

- Define the state and actions for managing resume data in:
 - Store Entry Point: store/index.js
 - Resume Store: store/resumeStore.js

5. Save and Restore Functionality:

- Implement utility functions for saving to and loading from local storage:
 - Local Storage Utilities: utils/localStorage.js
- Create a Save button component:
 - Save Button: components/SaveButton.js
- Integrate save and restore functionality in the main App component:
 - Main App Component: pages/App.js

6. Implement Drag and Drop Functionality:

- Enable drag-and-drop reordering for sections:
 - Work Experience: components/WorkExperience.js

- Education: components/Education.js
- Skills: components/Skills.js
- Awards: components/Awards.js
- Volunteering: components/Volunteering.js

7. Export and Import Functionality:

- Implement utility functions for exporting to PDF and JSON:
 - PDF Export Utilities: utils/pdfExport.js
- Add export and import buttons in the main App component:
 - Main App Component: pages/App.js

8. Error Handling:

- Create an error boundary component:
 - Error Boundary: components/ErrorBoundary.js
- Wrap the main components with the error boundary:
 - Main App Component: pages/App.js

Finalized File Structure with Implementation Plan:

Components:

- components/BasicInformation.js: Input fields for user's full name, contact information, and professional title.
- components/WorkExperience.js: Input fields for company name, job title, start and end dates, job description, and current job indicator. Includes drag-and-drop reordering.
- components/Education.js: Input fields for institution name, degree, field of study, start and end dates, and current study indicator. Includes dragand-drop reordering.
- components/Skills.js: Input fields for skill name and proficiency level. Includes drag-and-drop reordering.
- components/Summary.js: Text area for summary or career objective.
- components/Awards.js: Input fields for award title, awarder, date, and description. Includes drag-and-drop reordering.
- components/Volunteering.js: Input fields for organization name, role, start and end dates, and description. Includes drag-and-drop reordering.
- components/TemplateSelection.js: Options for selecting resume templates.
- components/EditorLayout.js: Combines all the editor sections and provides the layout for the editor.
- components/PreviewLayout.js: Displays the preview of the resume based on the data from the editor.
- components/SaveButton.js: Button to save the resume data to local storage.
- components/ErrorBoundary.js: Component to catch and display errors gracefully.

Store:

- store/index.js: Entry point for TanStack Store.
- store/resumeStore.js: Defines the state and actions for managing resume data.

Pages:

- pages/index.js: Entry point for the React app.
- pages/App. js: Main App component that includes routing and layout structure.
- pages/EditorPage.js: Main page for the resume editor, includes both the editor and preview layouts.

Utils:

- utils/localStorage.js: Utility functions for saving to and loading from local storage.
- utils/pdfExport.js: Utility functions for exporting resume to PDF.

Styles:

• styles/index.css: Main CSS file for global styles.