

Automatic Resume Generator

Derek Riemer, Tyler Cook, David Pasquale

Overarching Goal

- Create a GUI that collects data from a user.
- Allow user to load, save, or export resume.
- Generate an attractive, application ready resume.

Here's how it works

https://github.com/tycook/ResumeBuilder/blob/master/ResumeBuilder_Video.swf

Use Case One: Adding a Resume for the First Time

The image displays a software application for creating resumes. It consists of two main windows. The left window is a main menu with three buttons: "Create a resume", "Edit an existing resume", and "Modify personal info". The right window is a detailed form titled "Resume Title: Resume Title". It contains several sections for inputting personal and professional information, each with a checkbox and a text field. The sections are: "Name" (checkbox checked, text "Default Name"), "Address", "Phone Number", "Email", "Add more personal info", "University Attended", "Graduation Date (mm/yyyy)", "Major(s)", "Technical Skills", "Add more skills", "Job" (checkbox checked), "Job Title", "Start Date (mm/yyyy)", "End Date (mm/yyyy)", "I still work here" (checkbox unchecked), "Job Description", "Add another job", "References" (checkbox checked), "Reference Name", "Contact Info (email or phone)", "Add another reference", and "Add additional information". At the bottom of the right window are three buttons: "Save", "Export", and "Cancel".

Main Menu:

- Create a resume
- Edit an existing resume
- Modify personal info

Resume Form:

Resume Title: Resume Title

☒ Name Default Name

☒ Address

☒ Phone Number

☒ Email

Add more personal info

☒ University Attended

☒ Graduation Date (mm/yyyy)

☒ Major(s)

☒ Technical Skills

Add more skills

☒ Job

Job Title

Start Date (mm/yyyy)

End Date (mm/yyyy)

☐ I still work here

Job Description

Add another job

☒ References

Reference Name

Contact Info (email or phone)

Add another reference

Add additional information

Save Export Cancel

Use Case 2: Generate Resume

Code formats inputted text.

Translates text to Word

Document.

David Pasquale

dapa0610@colorado.edu

3333 W Broadway Boulder Co

555-555-5555

Attended University of Colorado Boulder

Graduated 12/2016

Majored in Computer Science

Skills

- Fluent in Spanish and German
- Proficient in many programming languages like Java

Use Case 3: Modify User Information

<div>Resume Title: <input type="text" value="Resume Title"/></div> <div><input checked="" type="checkbox"/> Name <input type="text" value="Default Name"/></div> <div><input checked="" type="checkbox"/> Address <input type="text"/></div> <div><input checked="" type="checkbox"/> Phone Number <input type="text"/></div> <div><input checked="" type="checkbox"/> Email <input type="text"/></div>	<div>Resume Title: <input type="text" value="Resume Title"/></div> <div><input checked="" type="checkbox"/> Name <input type="text" value="David Pasquale"/></div> <div><input checked="" type="checkbox"/> Address <input type="text" value="1114 22nd Street"/></div> <div><input checked="" type="checkbox"/> Phone Number <input type="text" value="555-555-5555"/></div> <div><input checked="" type="checkbox"/> Email <input type="text" value="avid.pasquale@colorado.edu"/></div>
---	--

Modify personal info...

Name

Address

Phone Number

Email

Design Pattern 1

Major Section

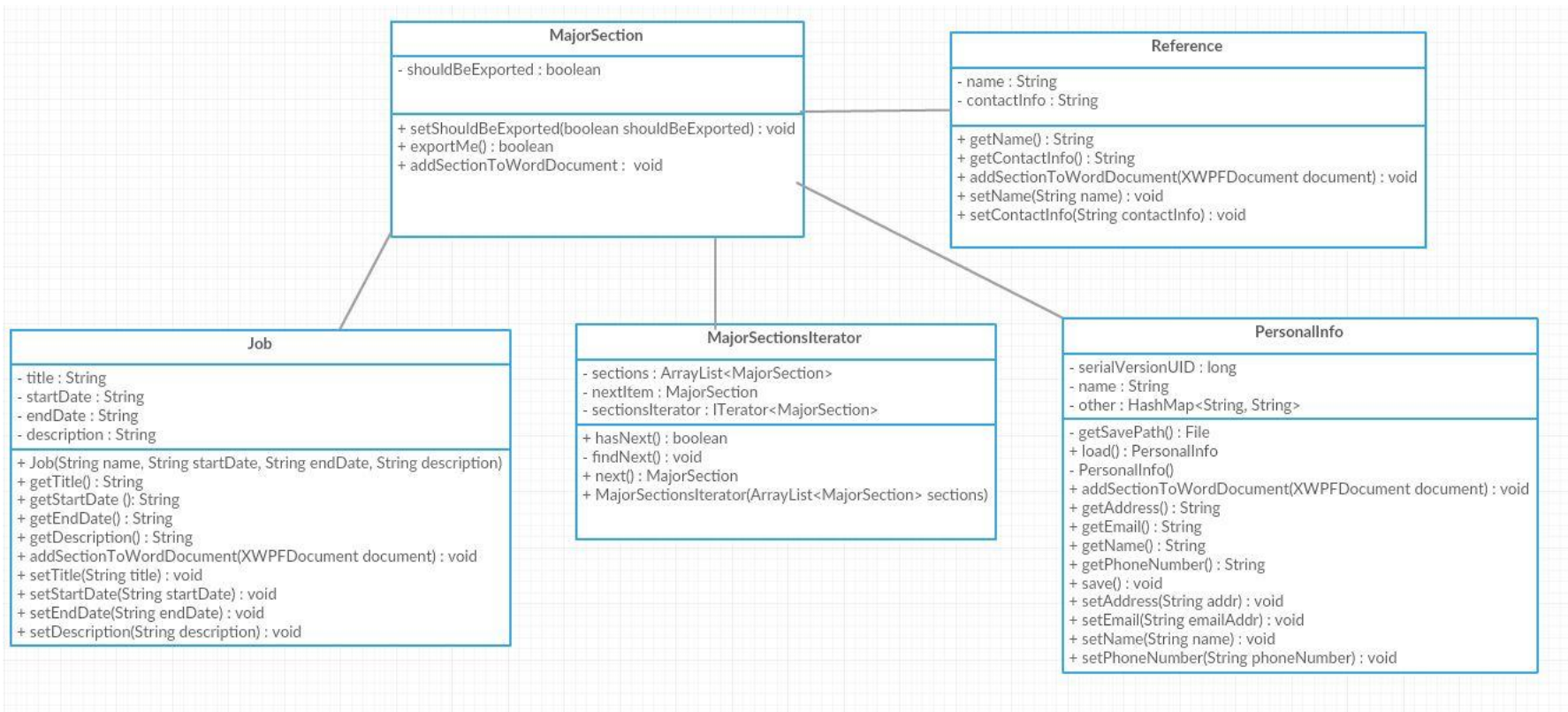
- Sections of the resume were needed.
- Each section has different formatting, and different GUI generation requirements.
- Abstract array section into a class, and let individual sections inherit to complete the required methods.
- Example: `addSectionToWordDocument` method takes a document object, and mutates it however it pleases.

Design Pattern 2

Iterator

- Sections can be marked as non-exportable, if the user chooses that they should do so.
- An iterator lets us encapsulate the details of skipping over non-exportable sections transparently.
- Business logic to export a given format need not concern itself with the logic of whether to export each section we might store.

Class Diagram



Additional Information

Screen readers are compatible with the GUI. This enables visually impaired users to use the app. Tested with NVDA 2016.4.

Hash maps aren't ordered. Do not rely on them when order matters.

What we learned

Statistics

files	language	blank	comment	code
28	Java	403	356	2525