

## Milestone 4 - Application Design and Architecture

### Team Members:

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### Revised List of Features:

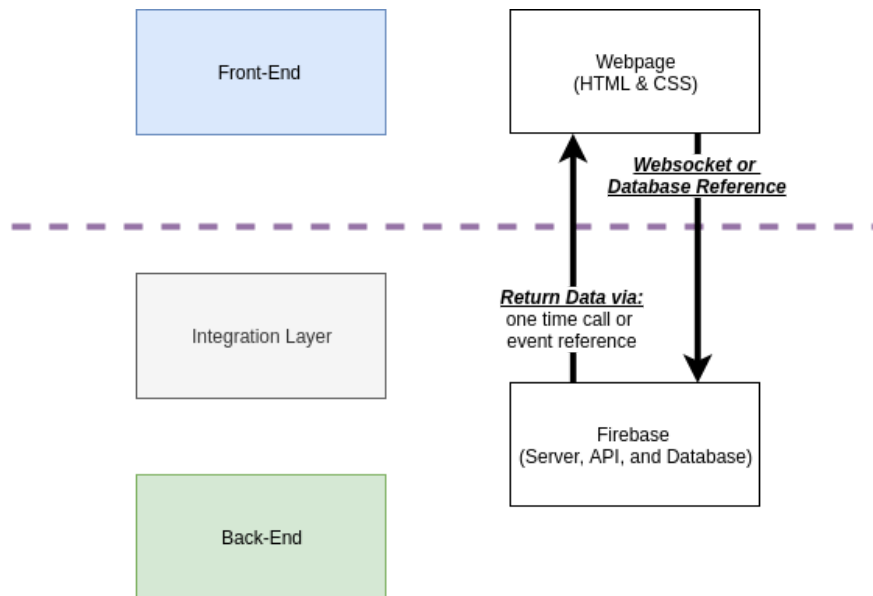
(ordered in terms of priority)

Optional Features if we have extra time

1. **Web Access** - We want the product to provide our service to anyone with internet access.
2. **Login Page** - A page that allows the user to sign up and create an account to store their information and resumes stored. An option will be provided to continue as a guest.
3. **Database of user Resume data** - Stores user's previously built resumes and previously entered information.
4. **Multiple Templates** - Users select from different styles based on their preference or applicable job type. Three templates will be created at a minimum, with others added as needed or as time allows. A guest user template is one such additional template.
5. **Information Ranking System** - Places statistical weight on certain information based on keywords, user attributes, and level of ability (some information will be weighted higher which indicates it has higher relevance or importance).
6. **Input Limits** - Bounds are placed on the amount of characters a user can input to avoid over-cluttering of information.
7. **Plain-Text Output** - Allows for an alternate method of rendering the user's inputs in the form of plain text. This output method exists for the case where the user decides to not use the resume templates.
8. **Job Qualification/Requirement Analyzer** - Optimizes user's provided information to build a resume based on the job/position requirements.
9. **Limited Option for Guest Users** - We want to differentiate between those who make accounts and guests
  - a. Account Users: Save information and resumes, able to use job qualification/requirement analyzer tool, access to all resume types.
  - b. Guest Users: Don't save information or resume, don't have access to job qualification/requirement analysis tool, and limited to one resume template or text output.

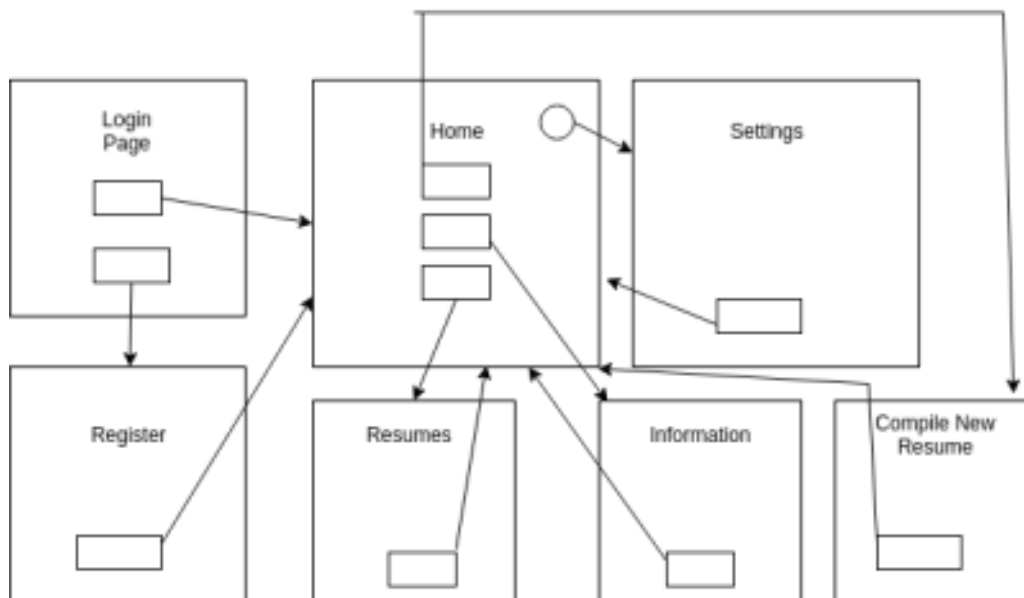
## Milestone 4 - Application Design and Architecture

### Architecture Diagram:



### Front End Design:

#### Overall Front End Design



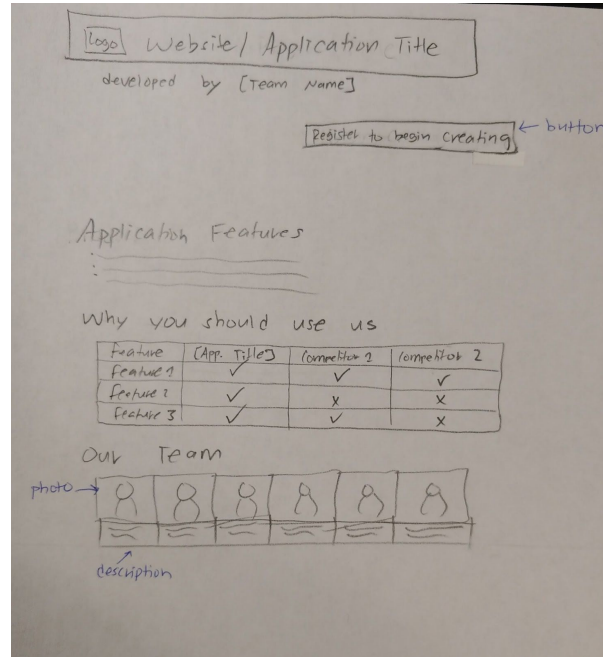
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### Home Page

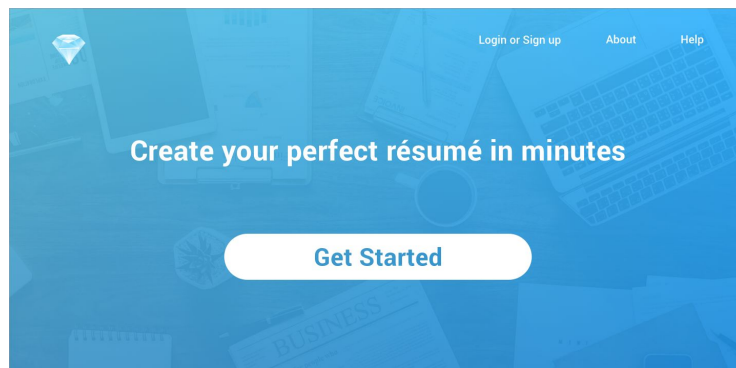
The home page will act as a buffer page that will showcase information about our website as well as have a button that will allow the user to begin creating a resume.

The information on the page will include:

- Product Features
- Contrast of how we are better than other resume building sites
- Development Team Information (showcase credibility and skill)



(initial design for home page)



### What Résumé Builder Does For You

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo.

(currently designed home page)

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### Login Page

Once the user has selected the button to begin creating a resume, they will be sent to this login page that will have the users create an account in order to utilize our resume builder.

Logo website / Application Title  
developed by [Team Name]

Registration  
welcome and thank you for selecting [Application Title]

Name

Username

Email

Password

confirm password

### Resume Builder Page

This page will be the main user interface as the purpose of our website will be fulfilled here. On the page we want to have various tabs the user can access to input different types of information to their resume.

Logo website / Application Title  
developed by [Team Name]

Contact Info Education Skills Projects work Experience ← various tabs

Full Name

phone

Email

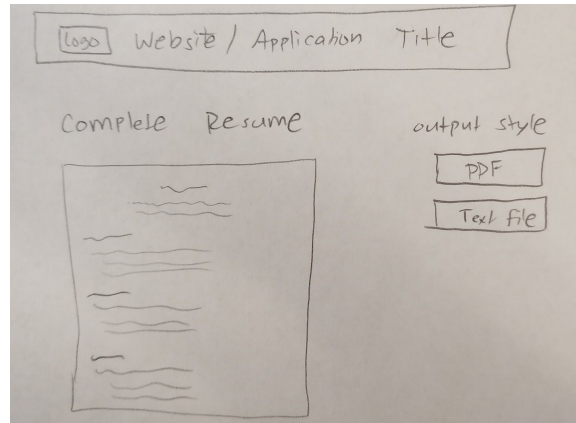
Address

website

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### *Resume Preview/Output Page*

This is the final page that will show a preview of the completely generated resume and has buttons for the way in which the user would like to export their resume (PDF, text file, or etc.)



### *Using Qualification Analyzer Resume Builder Page (if time available)*

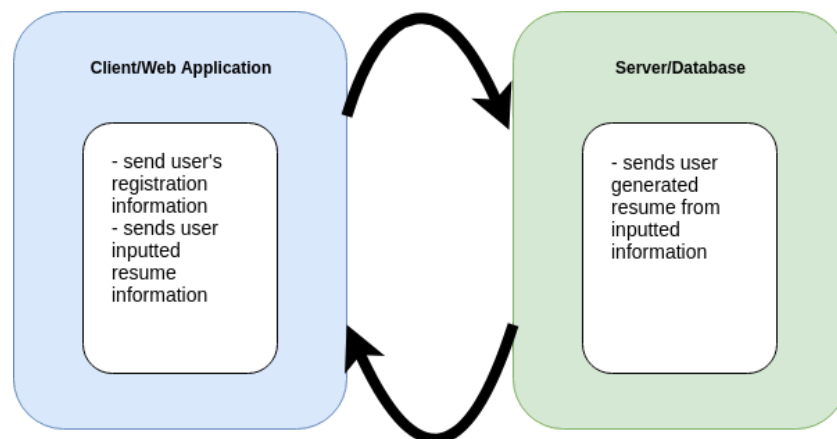
Be a tab in the resume builder page that will have a section for the user to input an unordered list of job requirements or qualifications listed on a job posting. This will then be sent to our database that will filter or sort the data based on the weighted scale we have created.

**(No actual design, just the idea, as we may not even get to this feature)**

### **Web Service Design:**

Our web service is integrated with our back end design through the use of Firebase. As a result Firebase will allow us to not only send and receive our data (acting as our API), but will also act as the database where we our data is stored.

- Data being passed: User registration information, Resume information
- Data being returned: Generated resume



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### **Back End Design:**

Firebase will essentially act as our server, our API, and our database/datastore to a certain degree.

- Data being stored:
  - User information
    - Name
    - Username
    - Email
    - Password
  - Resume Information
    - Full Name
    - Contact Information
    - Education
    - Skills
    - Projects
    - Work Experience
    - Volunteering Experience
    - Etc.
  - Resume Templates
    - Template #1
    - Template #2
    - Template #3
  - Statistical Parameters
    - Years of Experience
    - Certifications
    - Programming Languages
    - Average Number of Years at a Company
    - Number of Team Projects
    - Type of Project Management

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### Entity Relationship Diagram:

