



PROJECT PROPOSAL

Project Name: **PrioriSkill**

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Abstract

A simple tool to efficiently prioritize the skills you need to build your career based on the latest demands of the job market.

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Project Proposal

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Problem Statement

Individuals are required to have an increasingly complex set of skills in order to build their careers. An example of this can be found by browsing the various job openings in the technical and computer-based fields. As the available tools for software development rapidly increase, companies are choosing different tools to use and requiring new applicants to be familiar with these tools. Learning new tools and skills can be time consuming and applicants need to prioritize what skills to learn before and during the process of getting their desired jobs.

Problem Solution

The most popular and up-to-date skills can be found in the latest job listings. PrioriSkill, a tool designed to allow job seekers and career builders the ability to enter in job listings that are aligned with their desired path and displays a customizable list of skills, ranked by the frequency that the skill appears in the job description and requirements. Users can cluster similar skills or skills that have multiple names into one skill. They can also look for specific phrases and filter out words that are not relevant to them. The more jobs entered in, the more useful the information becomes.

Target Users & Stakeholders

This tool is primarily geared towards:

- Job seekers.
- Those looking to change career fields.
- Those seeking to change departments or get promotions from within their company.

Mode

This tool will be delivered primarily as a responsive multiplatform web app. It may also be developed as a mobile hybrid app.

Design Goals

The main goals for the design of this tool consist of:

- Responsive Bootstrap- Optimized for different screen sizes.
- SPA components with Angular MVC- Few account pages and information pages.
- Data storage- JSON designed with options to expand later.
- Log in and account creation- Simple with minimal identifying information to store user data.
- Managed with Web Services.
- Unit, component and E2E testing.

Unique Features

The features that set PrioriSkill apart from other methods of analyzing job skill data are that users can store and customize their lists. They have more control over the information entered rather than viewing data extracted automatically from unknown databases that may contain extraneous information that will affect the results.

Design Challenges

Some challenges that may come up are:

- Algorithm to process saved skill rank data and groups.
- Efficient algorithm for phrase searching.
- Technique to combine phrase searching in word scan.
- Designing a built-in blacklist for irrelevant terms.

User Stories, version 1

As a user, I want to create a new account in order to save my custom data to access later.

- Email, password, Name

As a user, I want to log in to my account in order to access my saved data.

As a user, I want to reset my password via email in order to access account if I lose or forget my password.

As a user, I want to view my current skill list in order to see what skills are most important to focus on.

- View with grouping.
- View without grouping.

As a user, I want to create a new group in order to count skills that are the same, but referred to by different terms under the same name.

As a user, I want to view my group list in order to see what groups I have available and being used.

As a user, I want to edit a group in order to improve naming or correct spelling error.

As a user, I want to delete a group in order to remove groups that are not used and keep my list clean.

As a user, I want to view my current job list in order to see what jobs I have added.

As a user, I want to add a new job in order to add the information to my skill rank data.

- By job name, company, description, contributing word list, groups added to, manually input words.

As a user, I want to view an individual job in order to see what data I have entered.

As a user, I want to edit a job in order to fix errors or remove unwanted data.

As a user, I want to delete a job in order to remove jobs that no longer contribute to my data in a desired way.

As a user, I want to view my word blacklist in order to see which words are not counted in skill rank list.

As a user, I want to add words to my blacklist in order to prevent unwanted words from being listed.

As a user, I want to edit blacklist words in order to fix spelling errors.

As a user, I want to remove words from my blacklist in order to include words in rank list.

As a user, I want to be guided by a tutorial on my first use in order to learn how to use the tool quickly.

As a user, I want to be guided by a tutorial when selected in order to refresh my knowledge of how to use the tool.

As a user, I want to try the tool out as a guest in order to test the tool without having to create an account.

As a user, I want to create an account after trying the tool in order to save the data I inputted during the trial.

As a user, I want to view top overall skill across all accounts in order to see what skills are most popular for all users.