

SENG2021

Deliverable 1

Group: AT3K

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Part 1: Problem Statement

- (1) There is no easy way of identifying skills and knowledge a person is missing when applying for a specific job post and getting recommendations on how they can acquire the necessary skills.
- (2) There is no tool that integrates the job postings from multiple sources with an automated and customisable spreadsheet/board interface for tracking the application process for those jobs.
- (3) There is a lack of tools that leverage AI technology in matching a user's custom resume with job postings that best match a user's skillset.
- (4) Existing career platforms don't focus on displaying statistics in a way that can better inform the user what skills are highly sought after or which fields are most in-demand.
- (5) Existing tools do not have very user-friendly interfaces or sufficient guidelines/tutorials for beginners of the job-hunting process.
- (6) Major job-hunting platforms do not provide many ways to toggle the level of detail for the lists of job postings.

Part 2: Identify and Describe User Stories

Resource Recommendation:

Feature: Allow the user to get resource recommendations based on difference between job posts and the user's skillset

As a job seeker

So that I am more prepared knowledge and skill wise for the job interview and job

I want to be recommended resources for learning about skills required in a job which I do not have

Scenario: Find skills that the user lacks

GIVEN I am at a job description page

WHEN I look through the job description on the post

THEN I should see a list of missing skills and knowledge and resource recommendations for those skills

Customisable UI Theme:

Feature: Customisable UI theme

As a website user

So that I can change the website's appearance to my preference

I want to be able to change the theme of the UI, such as changing website into dark mode

Scenario: Change the website into dark mode

GIVEN that I am on the themes section of the settings page

WHEN I click on the 'Dark mode' button

THEN the entire website's colour scheme is changed to be much darker

Job Sorting Strategy:

Feature: Ordering the search results by deadlines

As a job seeker

So that I can find a job that has a very early deadline

I want to sort the search results by the deadline of each job

Scenario: Sort the search results by the deadline from earliest to latest

GIVEN that I am on the "Search For Jobs" page

WHEN I click on any category

THEN I should see a list of job results

WHEN I click on "Sort by"

THEN I should be able to see a list of sorting strategies, such as "Deadline (earliest to latest)".

Toggable Level of Detail:

Feature: Providing more detailed information for each job card

As a job seeker

So that I can quickly browse the search results without clicking each job to see its details

I want to view full title, posted date and deadline of each job

Scenario: View job search results in more detail

GIVEN that I am on the "Search For Jobs" page

WHEN I click on "Job search" search bar and input some keywords

THEN A list of job cards are displayed with title, company name, salary, deadline, location and posted date

WHEN I click on the "Toggle detail" dropdown

THEN it should show options for different levels of detail that I can choose to display

WHEN I click on "More detail"

THEN the search results should display fields such as job title, company name, salary, deadline, location, posted date, required and missing skills and a brief description

Saving Favourite Companies:

Feature: Saving my favourite companies in my personal dashboard

As a job seeker

So that I can efficiently manage the company's information that I'm interested in

I want to save companies' profiles to view from my "Home" page

Scenario: Viewing my favourite companies from dashboard

GIVEN that I am on the "Job Dashboard" page

THEN I should be able to see "Favourited Companies" section on the bottom

WHEN I click one of the company names from "Favourite Companies" section

THEN I should be able to see the company's profile page, which consists of the description of that company and recent jobs that released from that company.

Board Management:

Feature: Creating new job boards

As a job seeker

So that organise the job applications I am interested in tracking

I want to be able to create new boards of job postings

Scenario: Create new job boards for tracking job applications
GIVEN that I am on the “Job Dashboard” page
WHEN I click the “Create New Board” button
THEN a modal containing a form should appear
AND I should be able to fill out the fields for creating the new board
WHEN I click the “Create” button
THEN I should see a new job board card on the dashboard

Feature: Be able to organise my boards by alphabetical order (A-Z/Z-A), recently created, last created, last modified

As a job seeker
So that I can easily find my boards
I want to be able to organise my boards in the order I want them to be in

Scenario: Organise my boards in my preferred order
GIVEN that I am on my “Job Dashboard” page
WHEN I see an “Sort Boards” dropdown next to the “Personal Boards” title
THEN I can click the “Sort Boards” button
WHEN I select an option under the dropdown menu
THEN I should be able to see the boards appear in the ordering I specified

Feature: Managing board descriptions and names

As a job seeker
So that I can prevent the creation of multiple boards for the same requirements
I want to be able to give descriptions to each board

Scenario: Give a board a short description of its purpose
GIVEN that I am on the “Job Dashboard” page
WHEN I click ellipses in the top right corner of the board cards
THEN I should see a dropdown menu to “Edit this board” or “Delete this board”
WHEN I click “Edit this board”
THEN I should be shown a modal popup containing a form
WHEN I click “Save” after having completed the form
THEN I should be able to see the changes reflected on the board card for the board I edited

FAQ:

Feature: Have an “FAQ” page to answer questions about the site

As a website user
So that I know how to use the site
I want to be able to search for frequently asked questions on the site

Scenario: Utilising the “FAQ” page
GIVEN that I am on the “Home” page
THEN I should see an “FAQ” button on the navigation bar on the left
WHEN I click the “FAQ” button
THEN I should see common questions and answers, a search bar and a prompt to contact for more support

Automated Job Tracking:

Feature: Saved job postings automatically generates new entries in the Kanban board/spreadsheet

As a job seeker
So that I can conveniently manage each of my job applications
I want to track the job postings that I find on the site which interest me

Scenario: Automatically generate a new entry in the Kanban board/spreadsheet

GIVEN that I am on a page that displays a list of job cards

WHEN I click on a 'Track' button

THEN I should see the button text indicate that the posting is now being tracked

AND a new entry is generated in the board/spreadsheet with columns such as 'Job Title', 'Deadline', 'Salary' automatically populated

Toggleable Board Views:

Feature: Allow the user to toggle between different 'views' of the tracked jobs, such as switching between Kanban board, spreadsheet or list

As a job seeker

So that I can manage my job applications in way that is most intuitive to me

I want to be able to toggle between alternative representations of the same list of job opportunities I have saved

Scenario: Change the view from board to spreadsheet

GIVEN that I am on the "Job Dashboard" page

WHEN I click "VIEW" button on any board

THEN I should see a detailed dashboard

WHEN I click a dropdown button with the text 'Board Type'

THEN I should be able to select one of the views from the dropdown menu

AND the job board should change its representation to reflect the option I selected

Jobs/Skills Data Visualisation:

Feature: Data visualisation graphics showing most in-demand skills for different disciplines

As a job seeker

So that I am informed about the what skills are most in-demand in different disciplines

I want to view real aggregate statistics on job opportunities in a digestible graphical format

Scenario: View statistics related to a certain discipline

GIVEN that I am on the "Statistics" page

THEN I should see a dropdown menu with text 'Career Type'

WHEN I click the dropdown

AND select a discipline

THEN graphs are rendered on the page showing relative frequencies of skills that are found in the job positions within the selected discipline

Automatically Tailored Job Recommendations:

Feature: Allow the user to upload the PDF document of their resume and retrieve recommended job postings

As a job seeker

So that I can conveniently find job positions I am most qualified for

I want to upload my resume as a PDF document to retrieve a list of recommended job postings

Scenario: Uploading a resume for getting tailored job recommendations

GIVEN I am on the profile section of the settings page

WHEN I click on the grey area that under the title 'Resume'

THEN I should be shown an interface for attaching a PDF document

AND I click "Upload"

THEN my resume should be saved and I will have access to recommended job postings the next time I visit the job list browsing page

Email/SMS Automation Services:

Feature: Allow the user to enable automated email/SMS notifications that will remind them whenever critical events such as an interview date or application deadlines for the jobs they are tracking are close.

As a job seeker

So that I can avoid missing critical job application events

I want to have the options to enable an automated notification system for approaching deadlines

Scenario: Configuring notifications services

GIVEN I am on the notifications section of the settings page

THEN I should see settings for “Email notifications” and “SMS notifications”

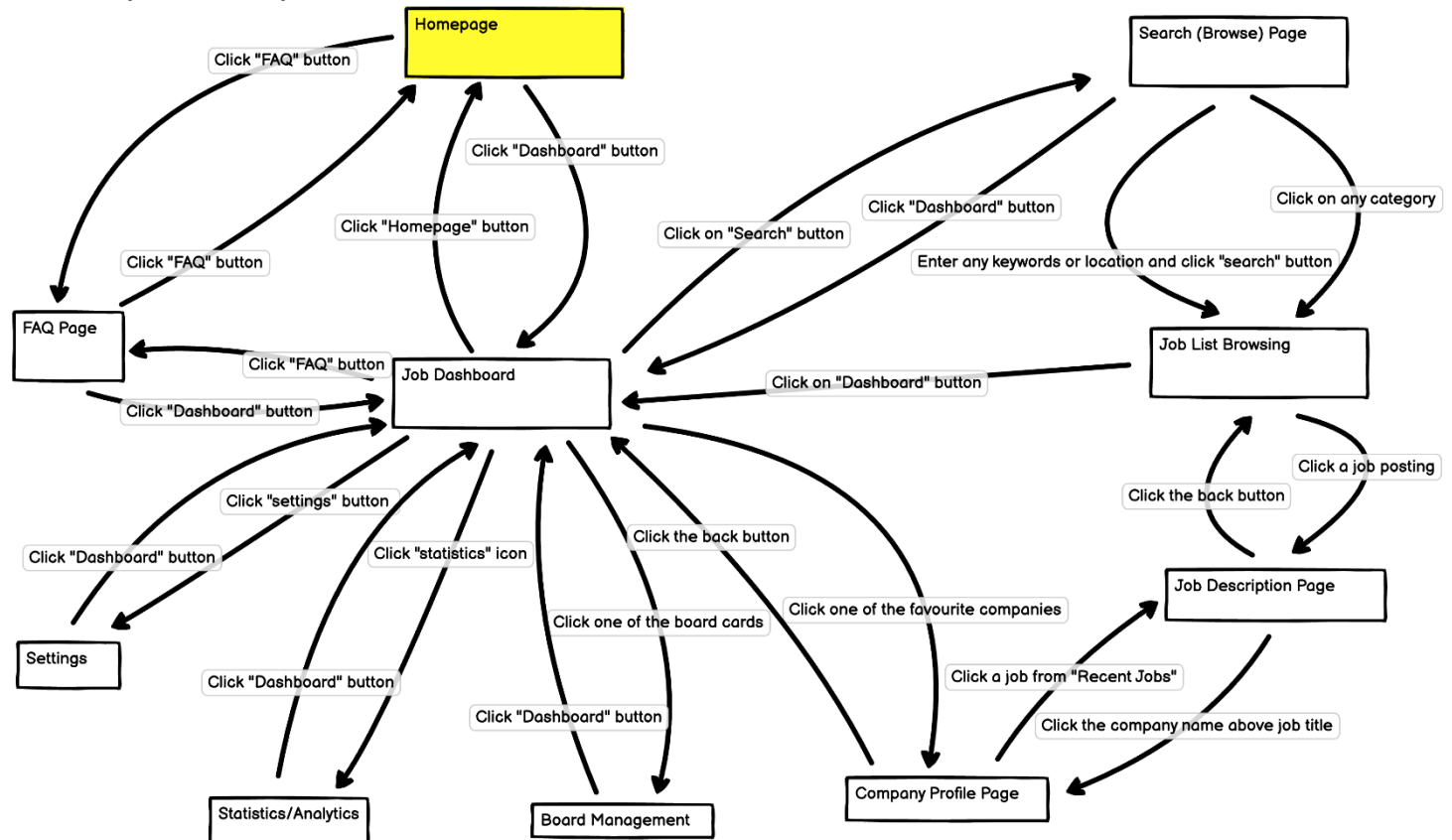
WHEN I click on an “Enable” checkbox

AND select desired options from the other user input elements presented

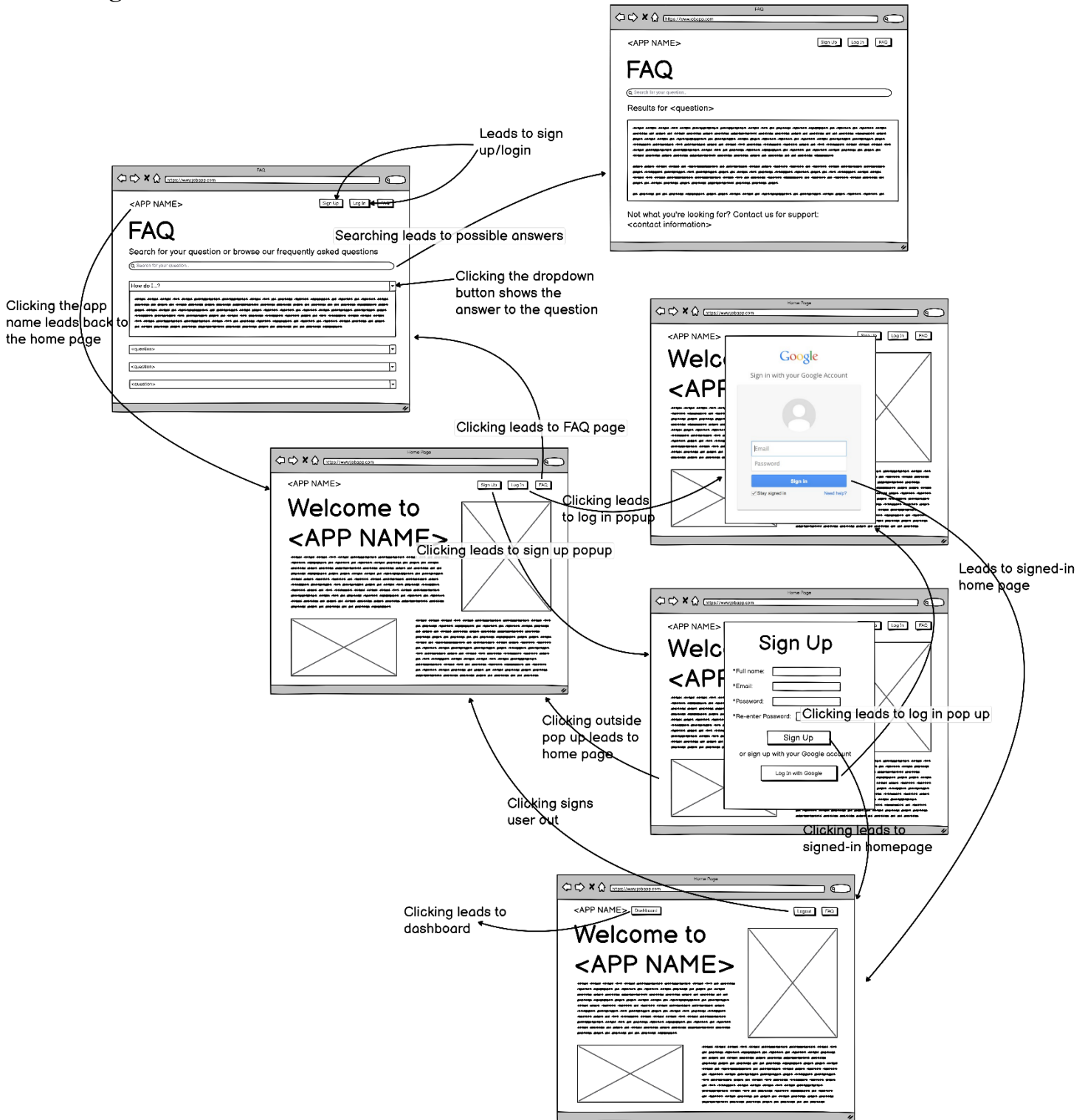
THEN I will begin receiving email/SMS notifications before critical events in the jobs I am currently tracking such as scheduled interviews and application deadlines

Part 3: Low-Fidelity Prototype

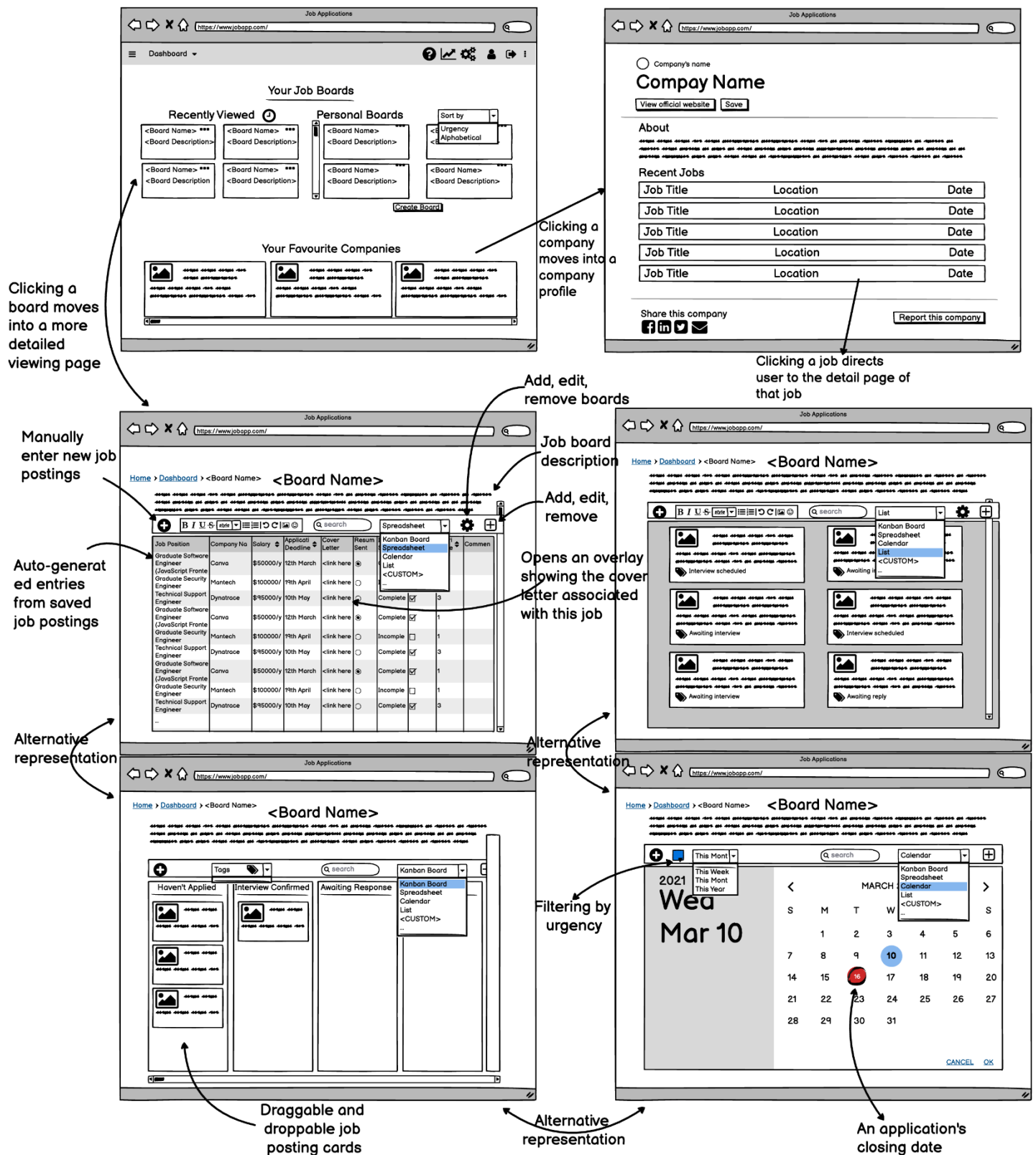
Whole System Storyboard:



Home Page and Authentication:

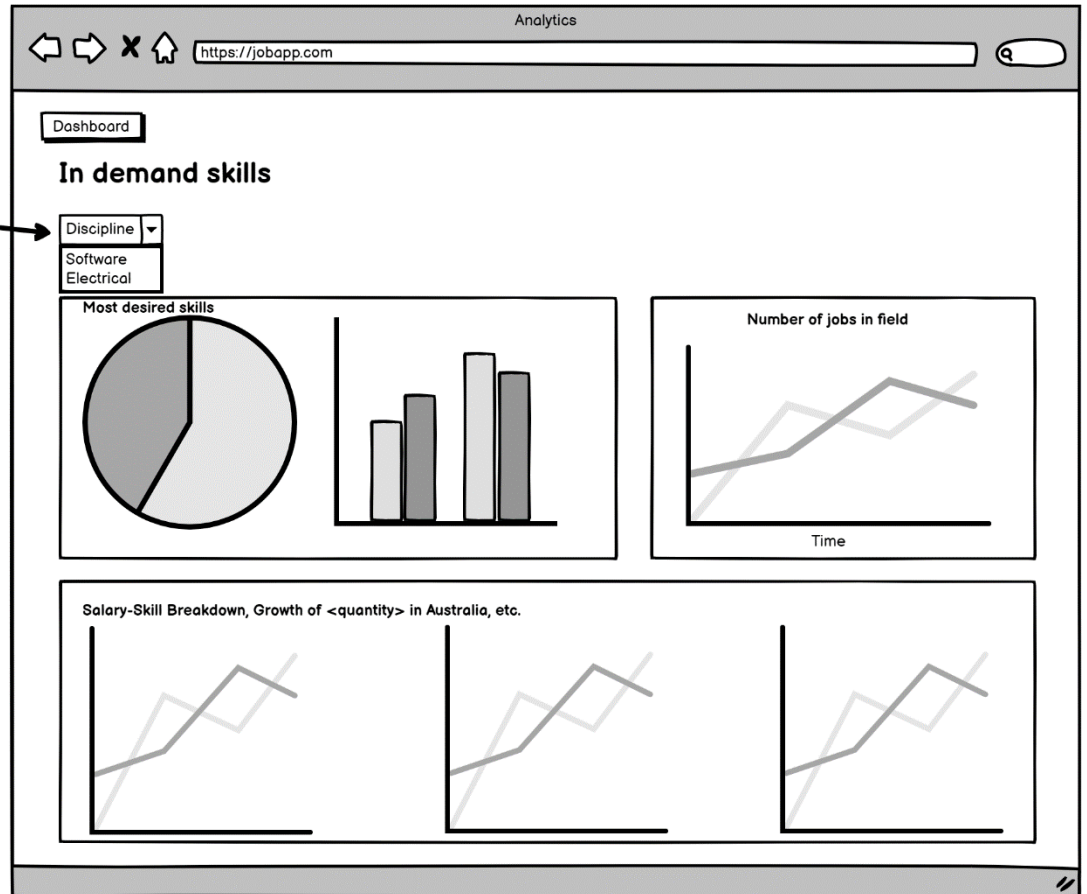


Job Board Management Dashboard:

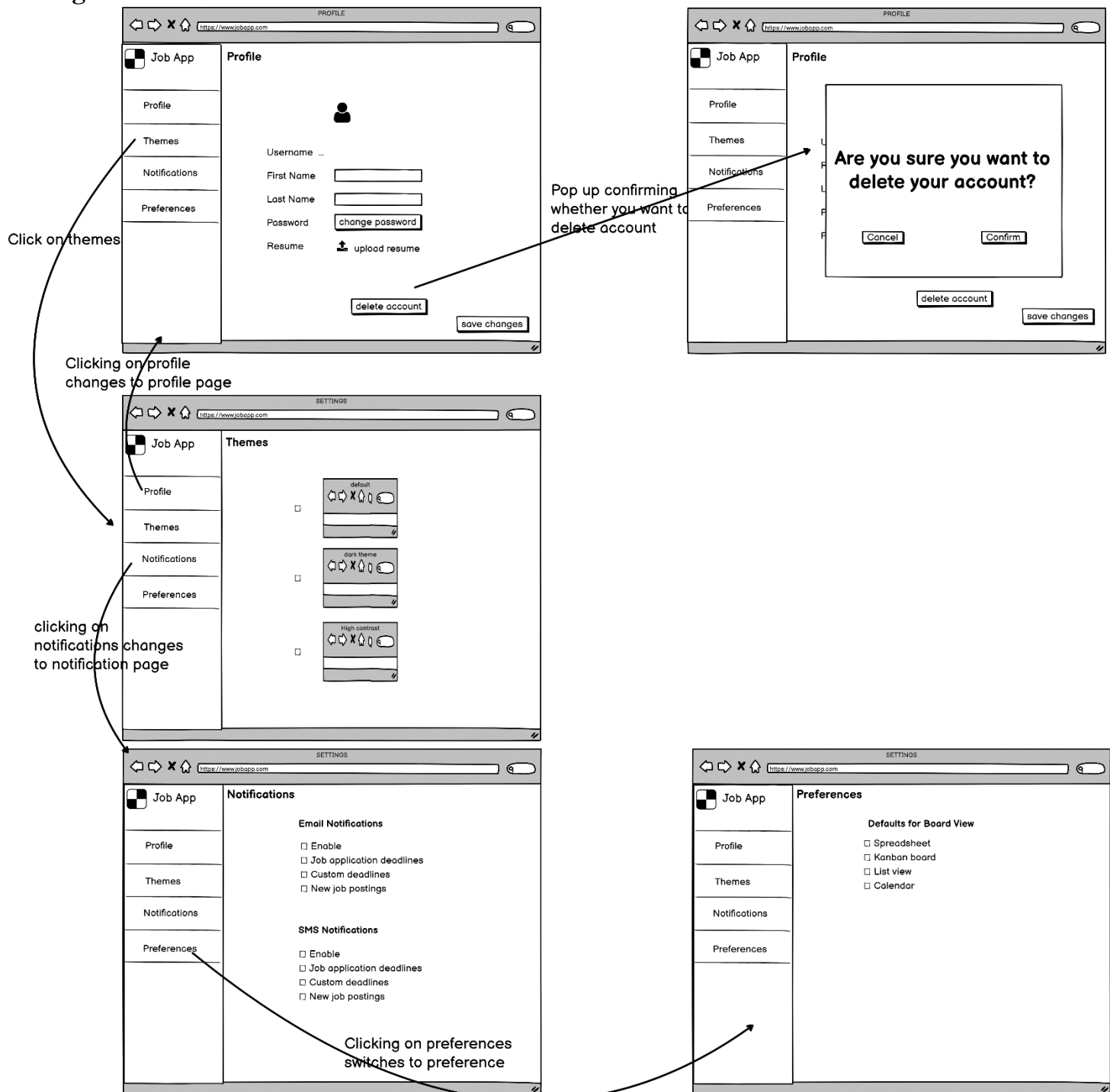


Statistics/Analytics:

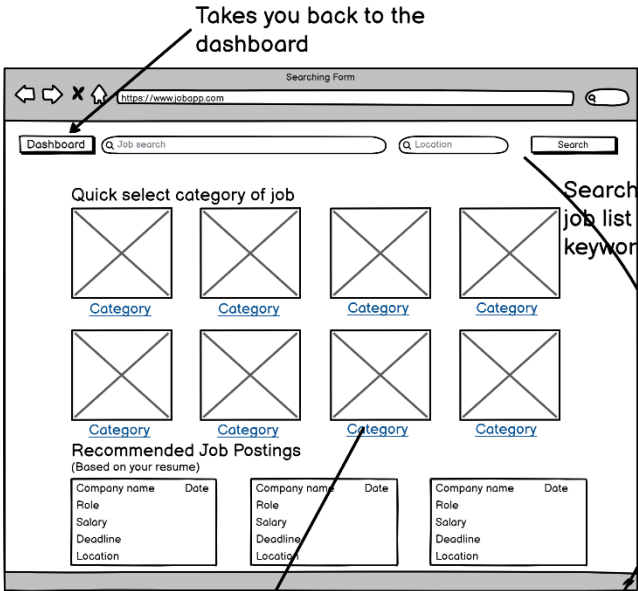
User can select which discipline/field to look at statistics for



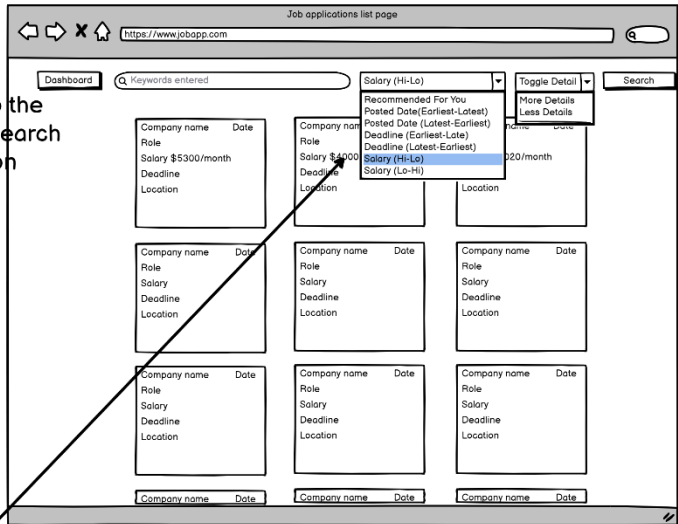
Settings:



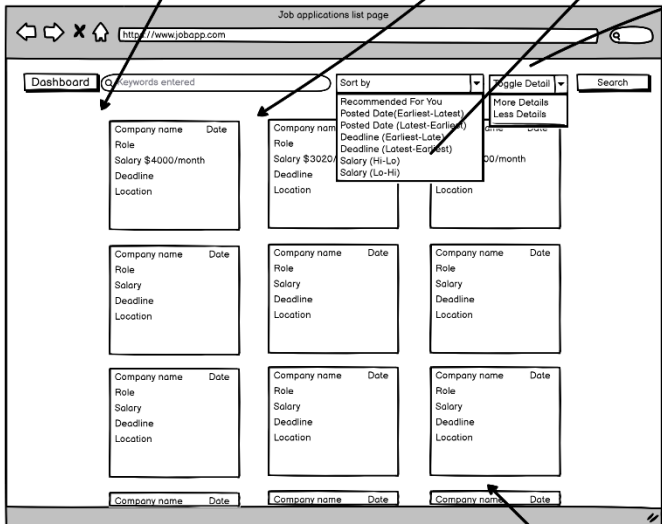
Job Search and Results:



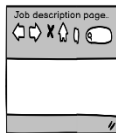
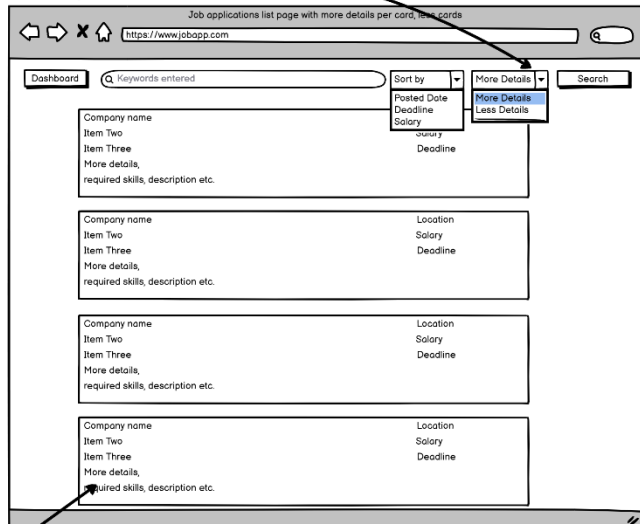
Page with results sorted differently



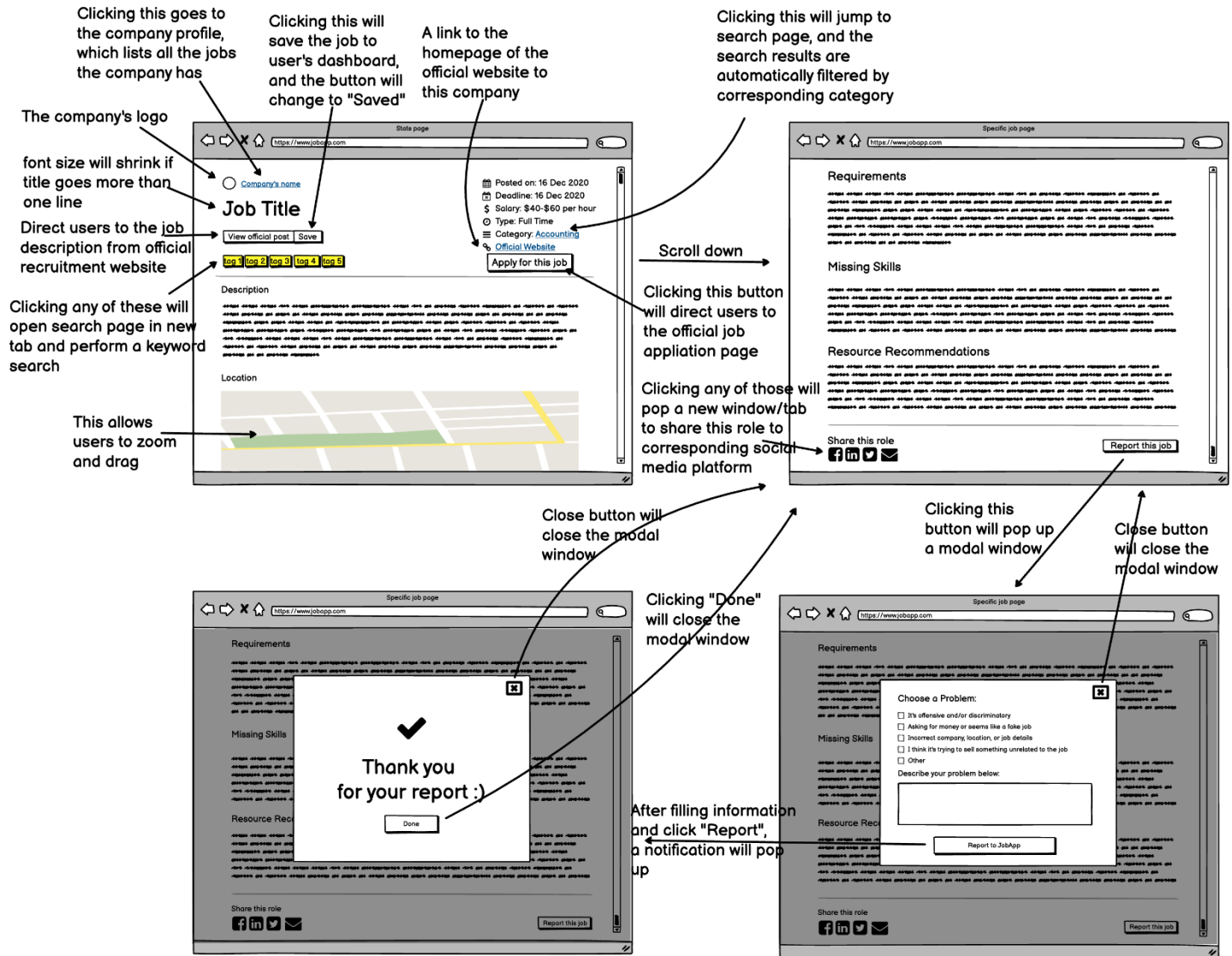
Quick selecting takes you to the job listing page regardless of location.



Clicking leads to job description



Job Details:



Part 4: High-Fidelity Prototype

Repository and Demonstratable Prototype:

1. Repository link (please view the master branch only): https://github.com/ArthurW404/seng2021_AT3K
2. Deployed prototype: <https://seng2021-at3k.netlify.app/>