SENG2021

Deliverable 1

Group: AT3K

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Part 1: Problem Statement

(1) 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.

(2) There is a lack of job tracking applications that focus on providing free user analytics and showing summaries such as the rate of response for applications or the interview success percentage.

(3) Existing tools do not have very user-friendly interfaces or sufficient guidelines/tutorials for beginners of the job-hunting process.

(4) Major job-hunting platforms do not provide many ways to toggle the level of detail for the lists of job postings.

(5) There is a lack of web applications that transparently shows the user how suitable they are for a role based on their custom job-hunting profile.

Part 2: Identify and Describe User Stories

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 or enter a search query
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)".

Toggleable 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

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

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 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 a 'Track' button on a job card
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 card
THEN I should see a detailed dashboard of all the job postings I am tracking
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

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: Saving my favourite companies from job detail page
GIVEN that I am on the "Job Description" page
THEN I should be able to see company's name and icon above the job title
WHEN I click the company's name
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.
WHEN I click "save" button
THEN The company profile is saved
AND I should be able to find it from "Favourite Companies" section in "Job Dashboard" page.

User Analytics Visualisation:

Feature: Data visualisation graphics and text showing the user's activity, application response rate and success rate for interviews

As a job seeker
So that I am informed about my long-term job-hunt progress
I want to view real aggregate statistics about my activity

Scenario: View statistics for my activity over a time-span
GIVEN that I am on the "Statistics" page
THEN I should see a dropdown menu with text 'Time Range'
WHEN I click the dropdown
AND select a time range
THEN graphs and text summaries are rendered on the page illustrating my activity over the time span I selected

Automatically Tailored Job Recommendations:

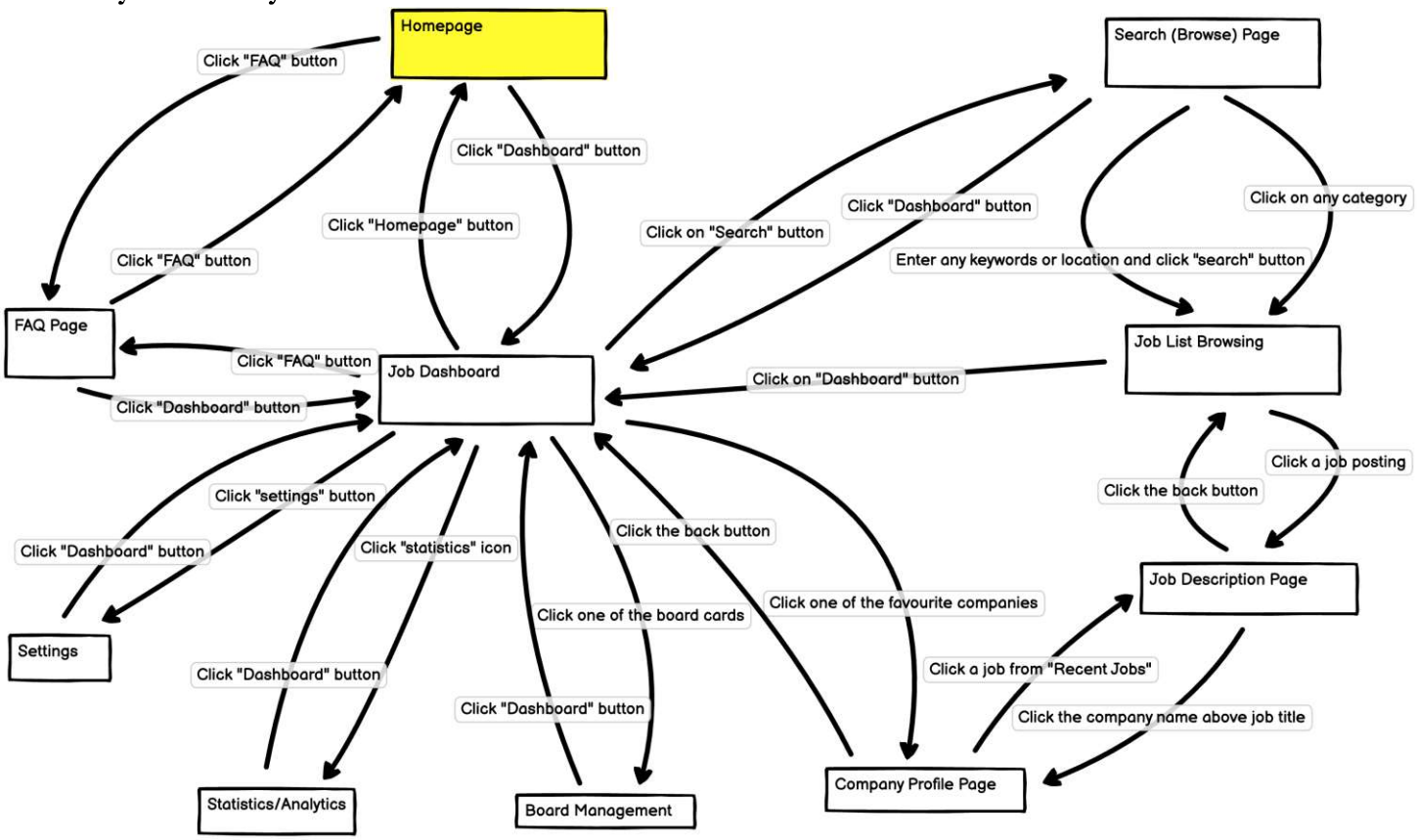
Feature: Allow the user to upload the PDF document of their resume and see measurements of how closely their profile matches a job position's description

As a job seeker
So that I can conveniently find job positions I am most suited for
I want to upload my resume as a PDF document to see a percentage match for job postings

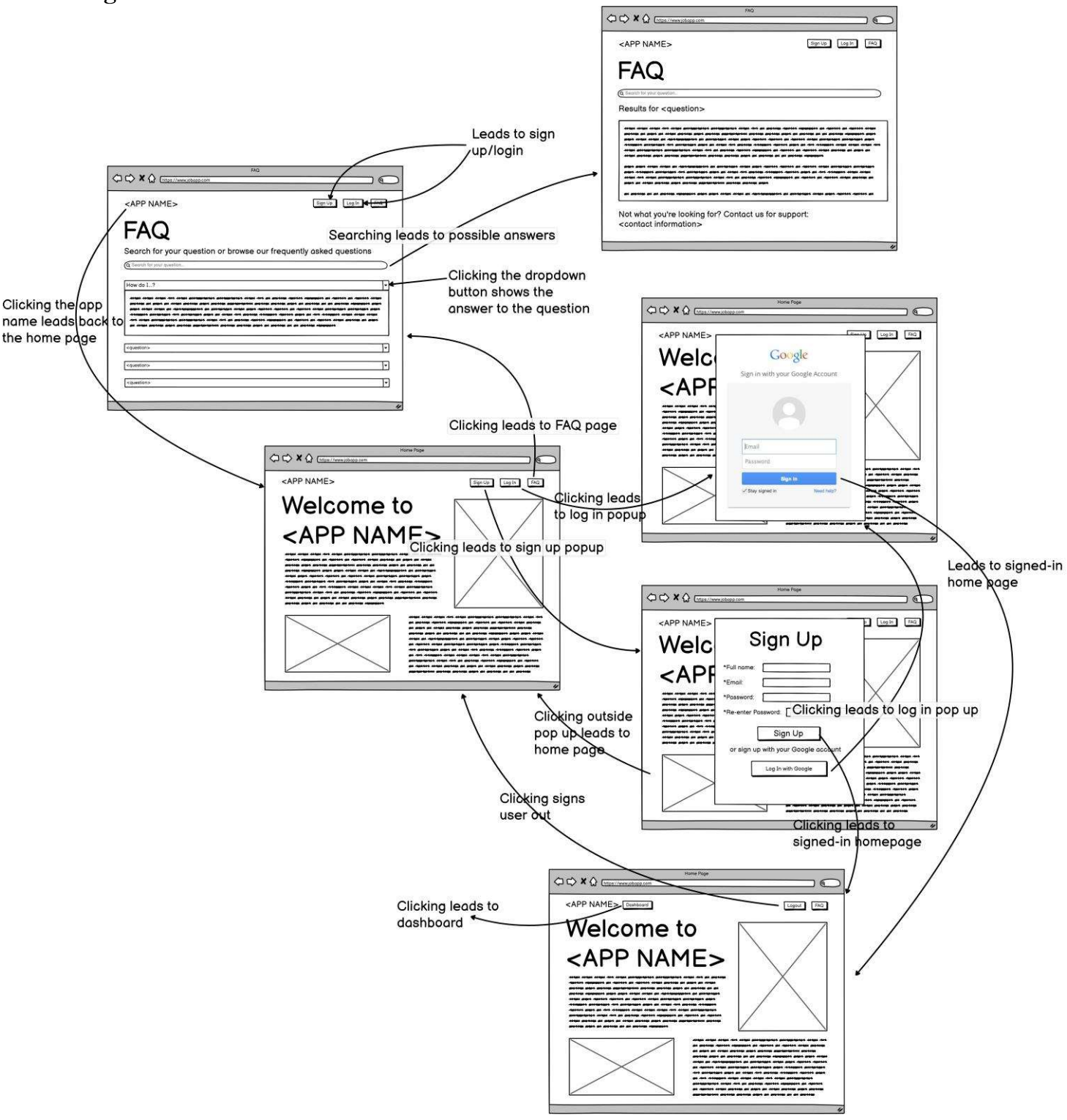
Scenario: Uploading a resume for getting tailored job recommendations
GIVEN I am on the profile section of the "Settings" page
WHEN I click on the grey area that under the title 'Resume'
THEN I should be shown an interface for attaching a PDF document
AND I click "Upload"
THEN my resume should be saved
AND I will be able to see match percentage values the next time I visit the job list browsing page

Part 3: Low-Fidelity Prototype

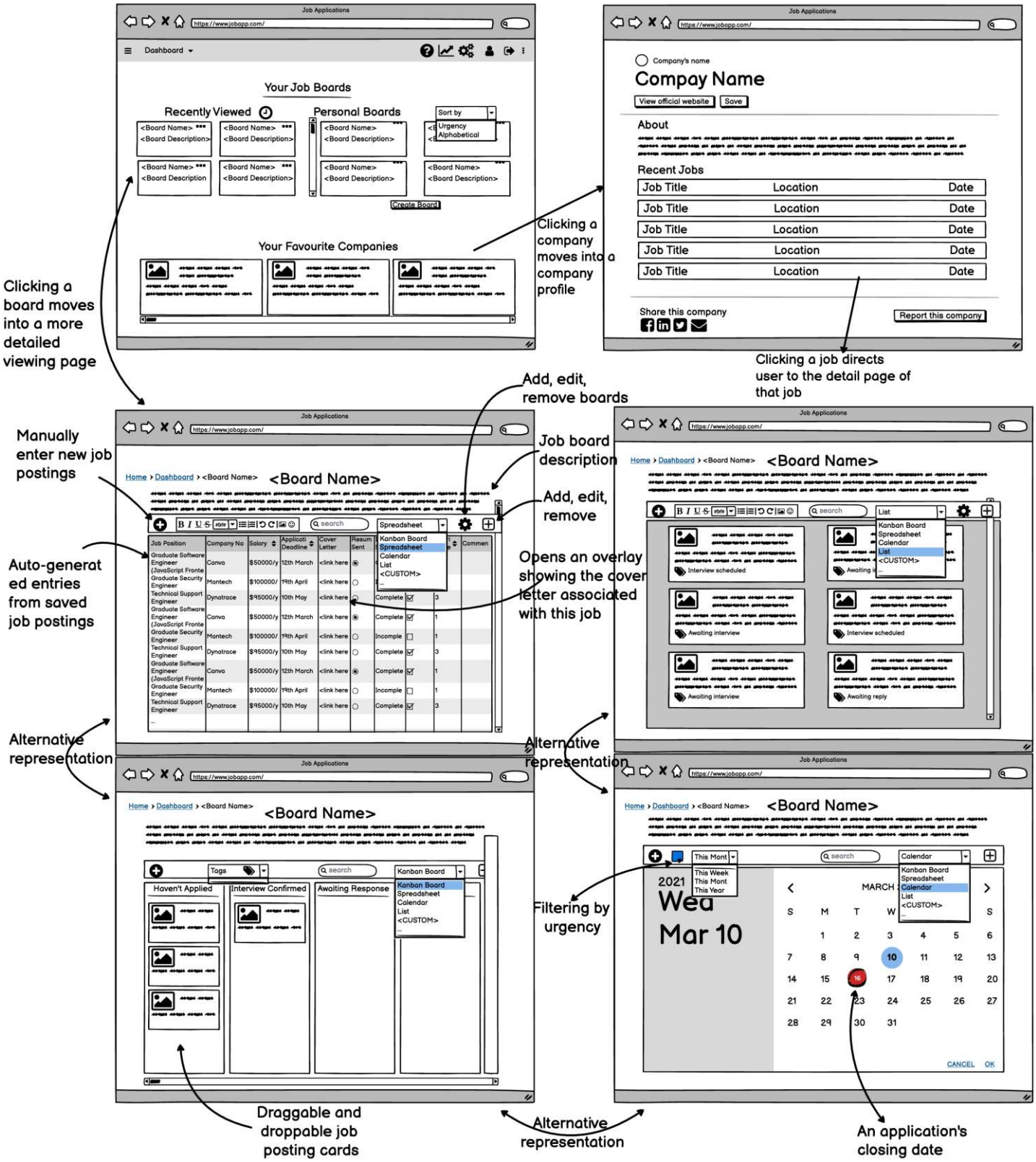
Whole System Storyboard:



Home Page and Authentication:

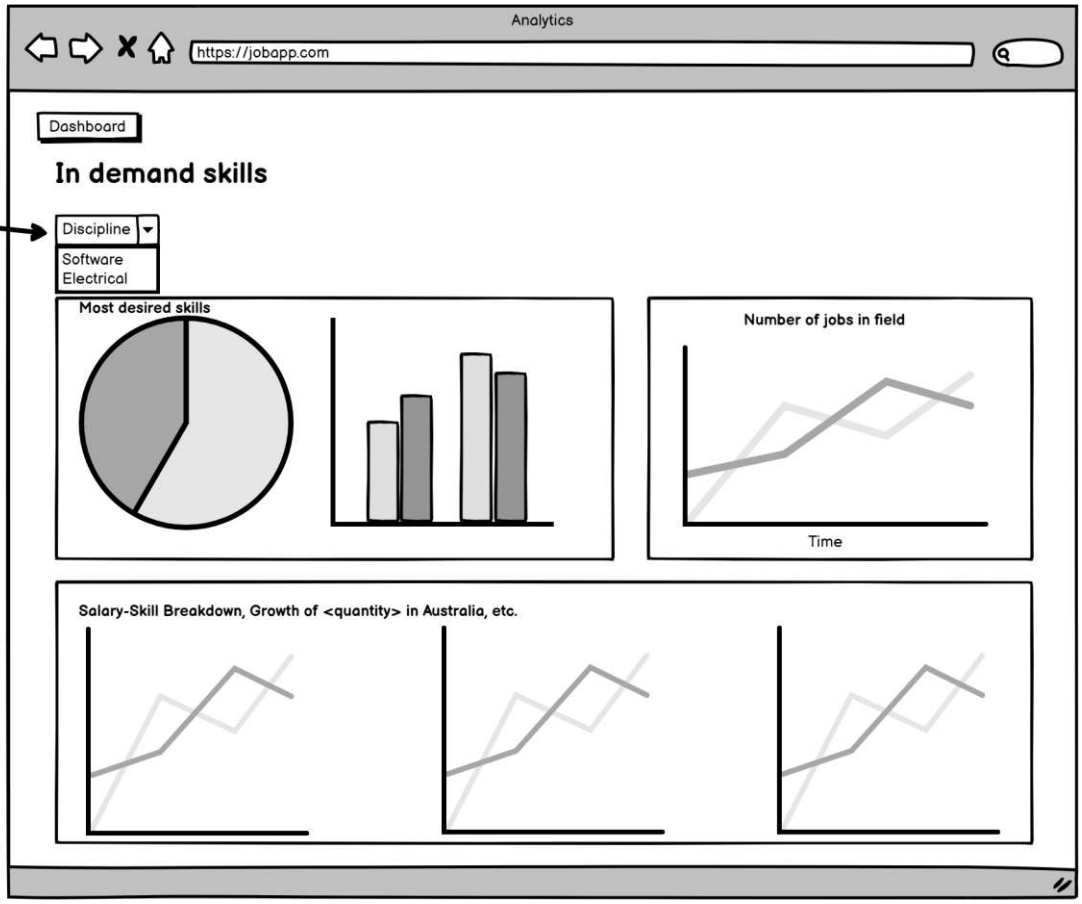


Job Board Management Dashboard:

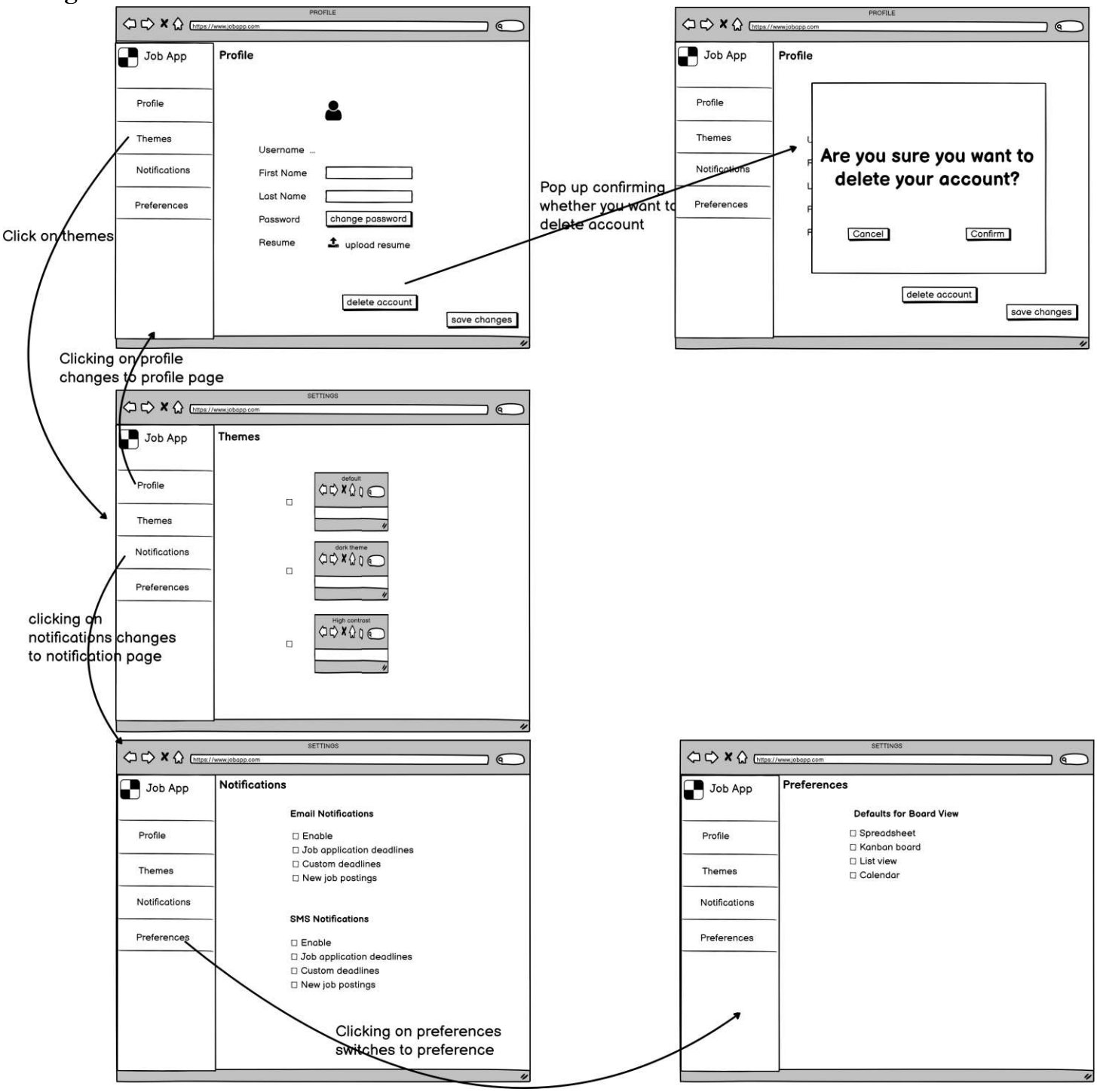


Statistics/Analytics:

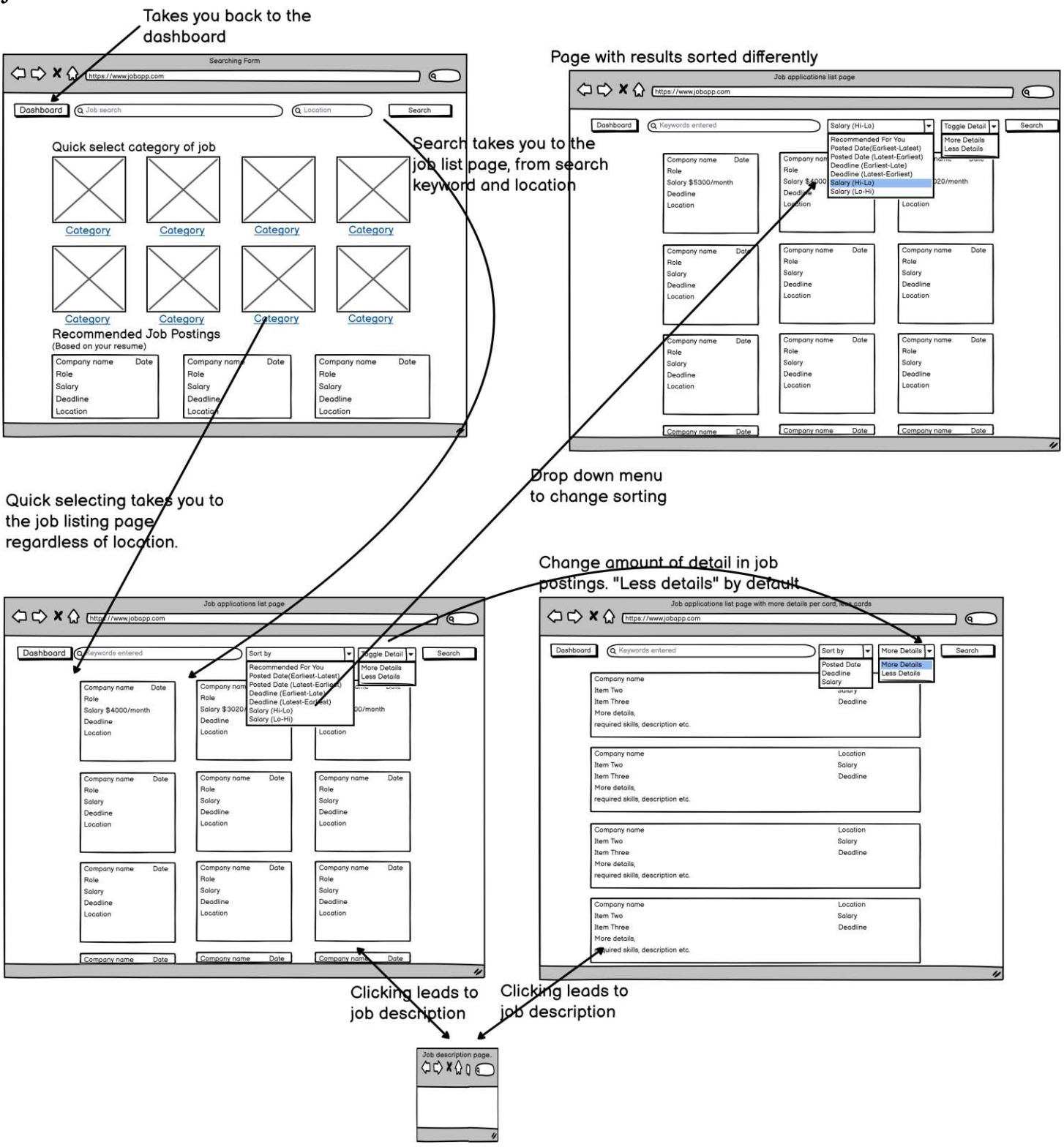
User can select which discipline/field to look at statistics for



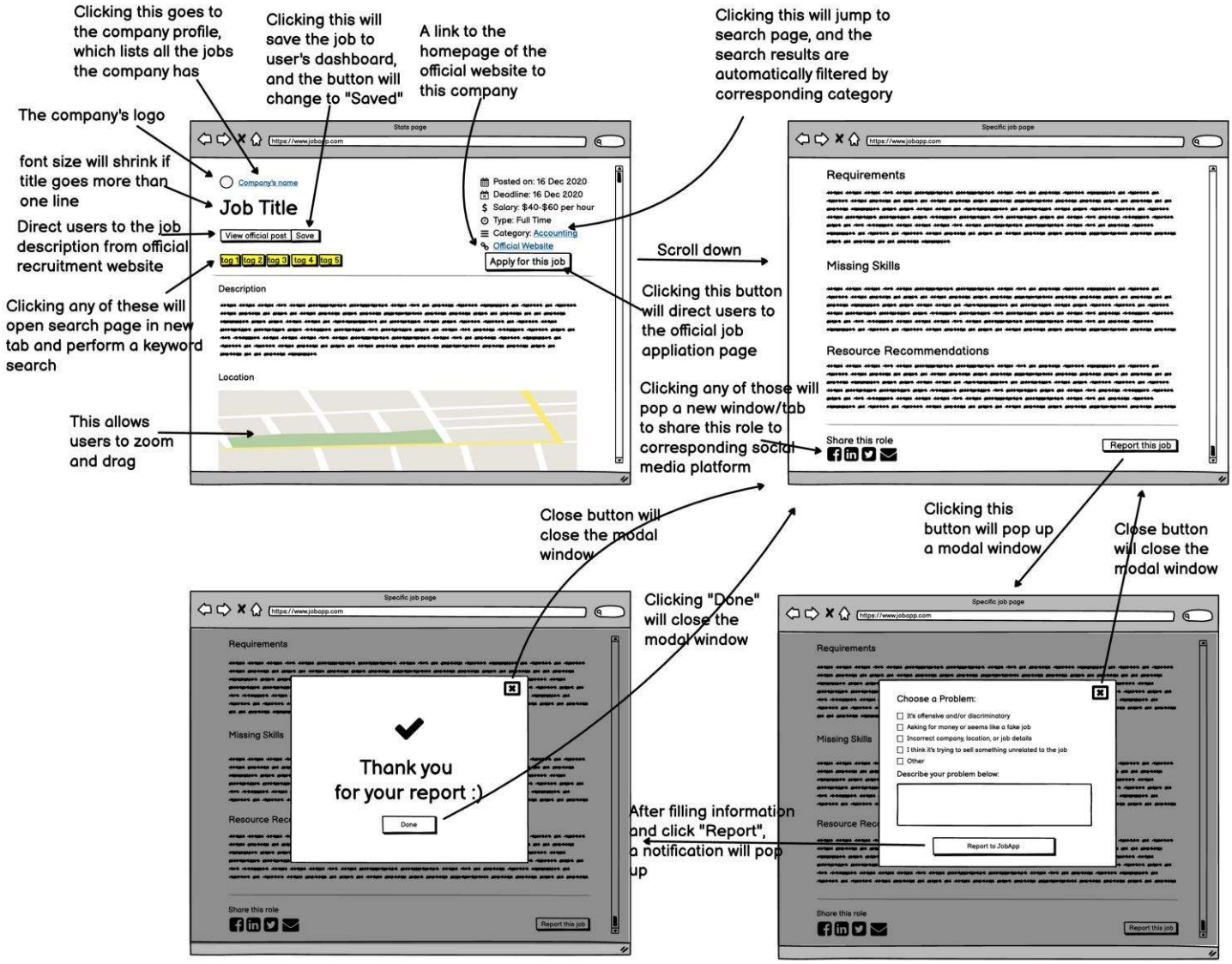
Settings:


PROFILE
https://www.jobapp.com
Job App
Profile
Profile
Themes
Notifications
Preferences
Username ...
First Name
Last Name
Password
change password
Resume
upload resume
delete account
save changes
Click on themes
Pop up confirming whether you want to delete account
Are you sure you want to delete your account?
Cancel
Confirm
Clicking on profile changes to profile page
SETTINGS
Themes
default
dark theme
High contrast
clicking on notifications changes to notification page
Notifications
Email Notifications
Enable
Job application deadlines
Custom deadlines
New job postings
SMS Notifications
Clicking on preferences switches to preference
Preferences
Defaults for Board View
Spreadsheet
Kanban board
List view
Calendar

Job Search and Results:



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/