

# Extended Custom Project Report

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Date: 10-10-2025

## Link to Questionnaire Created for Usability Testing

[https://docs.google.com/forms/d/e/1FAIpQLSeb1VRQwKroKGBMjrJnbuZVFkW\\_0c8dvguAbJiezSuvfDRZig/viewform?usp=header](https://docs.google.com/forms/d/e/1FAIpQLSeb1VRQwKroKGBMjrJnbuZVFkW_0c8dvguAbJiezSuvfDRZig/viewform?usp=header)

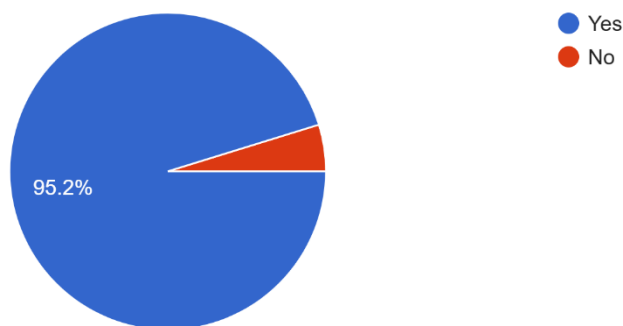
## Link to responses to questionnaire based on UI demoed in D2:

[https://docs.google.com/spreadsheets/d/1X0tNRLcHf6bpYmHG\\_sn1jpWhjfsDYWA8fOdzmY0pFNQ/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1X0tNRLcHf6bpYmHG_sn1jpWhjfsDYWA8fOdzmY0pFNQ/edit?usp=sharing)

## Questionnaire Analytics and User Feedback

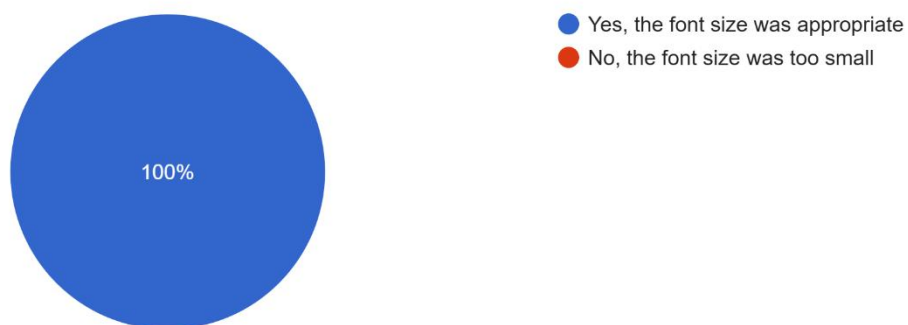
1. Was the profile page used for registration easily found from the landing page (App)?

21 responses



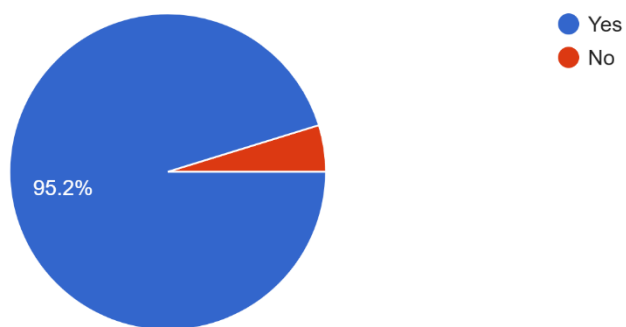
2. Was the page easily readable?

21 responses



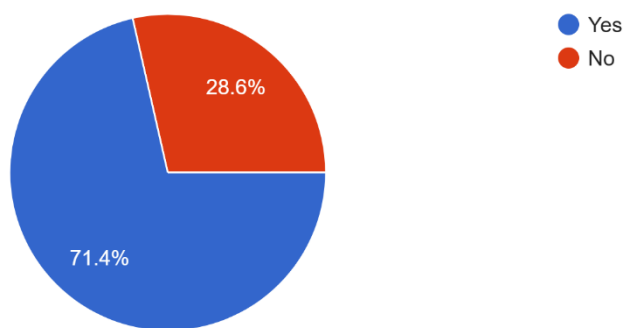
3. Were the required conditions for inputs (e.g., username length) intuitive to you?

21 responses



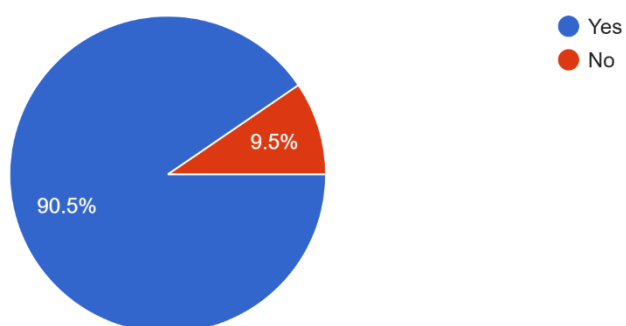
4. Would an additional note describing the criteria for the valid input conditions make your experience better?

21 responses



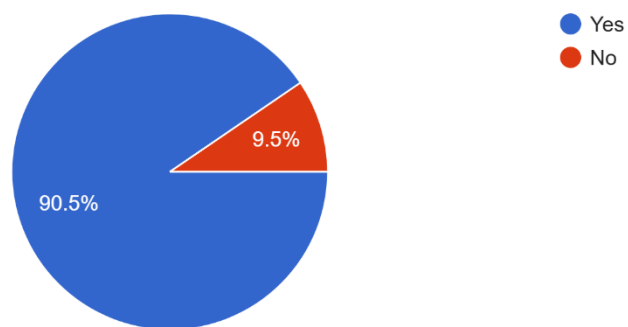
5. Would you (as a user) like to know why the details were collected?

21 responses



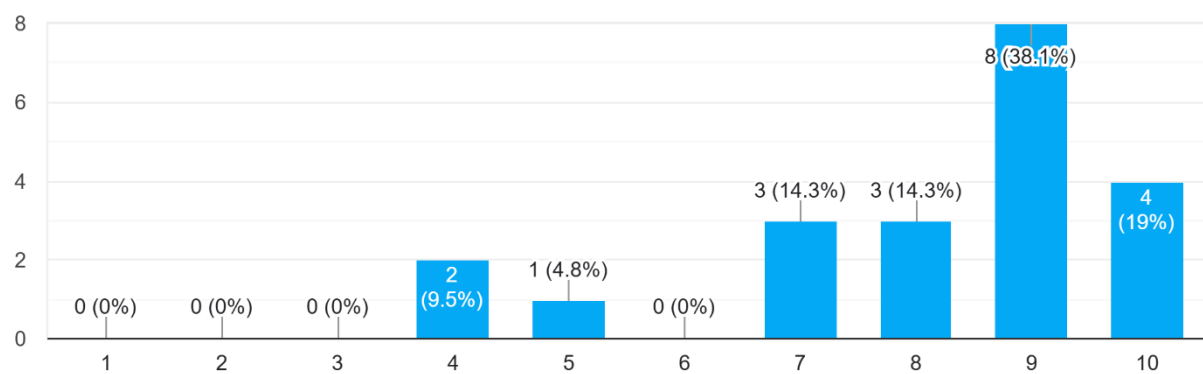
6. Would a description about the data usage improve user experience?

21 responses



7. On a scale of 1 – 10, what would you rate the user interface of the signup page?

21 responses



8. What is your general feedback about the UI? Are there any problems with this UI? Did you find any bugs in the UI?

21 responses

Nah couldnt see any bugs but if i spammed save profile while changing names each time, at some point it stops saving it(or maybe it saves but the output message doesnt show the change in name).

Quite minimalist but seems functional

The UI is sleek and flows smoothly but the overall vibe is a bit too dark in my opinion. No bugs and no main problems altogether but would advise adding components or readjusting the UI such that the majority of the page isn't really empty.

In the username text box I got confused with 5+ to be meaning 5 characters an above. Idk if its a me thing. Other than that no problems

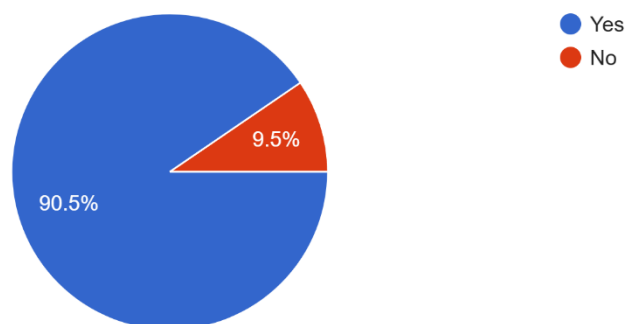
Worked well, was intuitive to use. I did not run into any bugs

The UI is nice and I haven't had any problems with the UI

add more styling

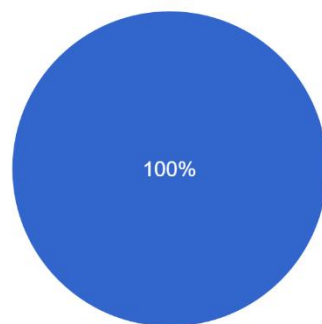
9. Was the preferences page used for set up easily found from the landing page (App)?

21 responses



10. Was the page easily readable?

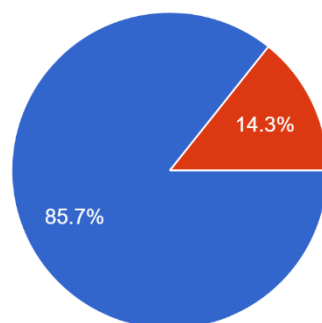
21 responses



- Yes, the font size was appropriate
- No, the font size was too small

12. Would an additional note describing the criteria for the valid input conditions make your experience better?

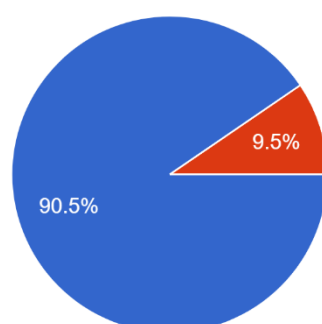
21 responses



- Yes
- No

13. Would you (as a user) like to know how the collected inputs will be used?

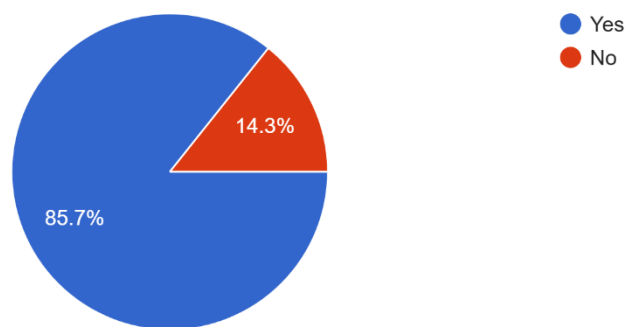
21 responses



- Yes
- No

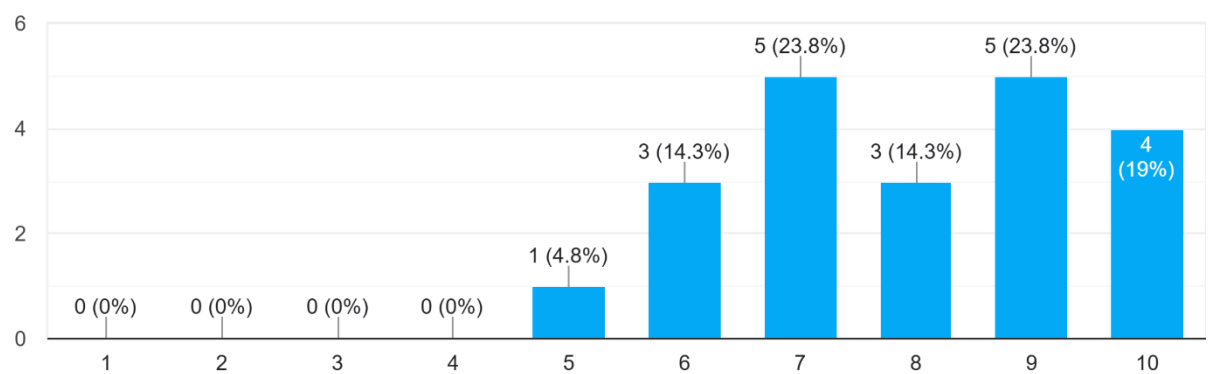
14. Would a description about the data usage improve user experience?

21 responses



15. On a scale of 1 – 10, what would you rate the user interface of the preferences page?

21 responses



16. What is your general feedback about the UI? Are there any problems with this UI? Did you find any bugs in the UI?

21 responses

- When inputting the skill the text showed up till 3 only so I assumed that only 3 were required as a minimum before getting the input minimum 5 prompt.
- Also the "Enter the minimum salary in k (1000)" i dont understand what this means since the plus button increments the number by 100 but i thought i should input in the 1000s. I got confused with this also.
- i was able to enter the number '1' in this text box and the preference got saved.
- In the skills textbox i was able to put "python" 5 times to fulfil the minimum 5 requirement. I was able to put 4 commas and pass the requirement.
- This would also lead to being able to only put 1 skill with 4 commas to pass the requirement.
- I was able to use numbers also as part of the skills (4 numbers was enough and 5 also worked)

Was intuitive to use, I didn't run into any bugs while setting my preferences

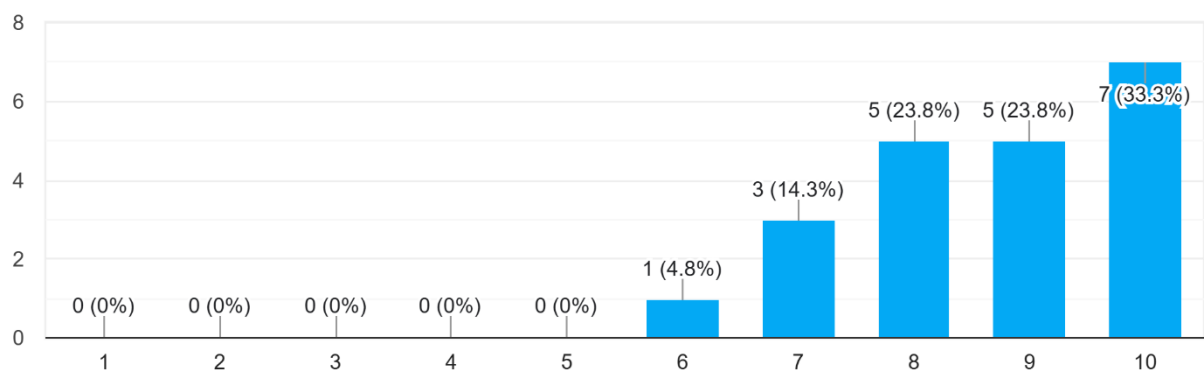
It's nice. No bugs

na

There should be examples to show what can be inputted as skills.

17. On a scale of 1-10, how easy was the whole process of searching for a job and viewing the listings?

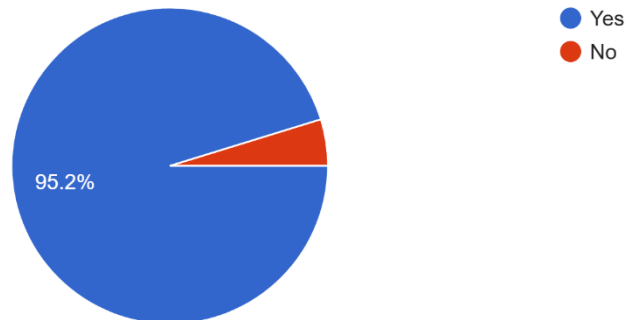
21 responses



C

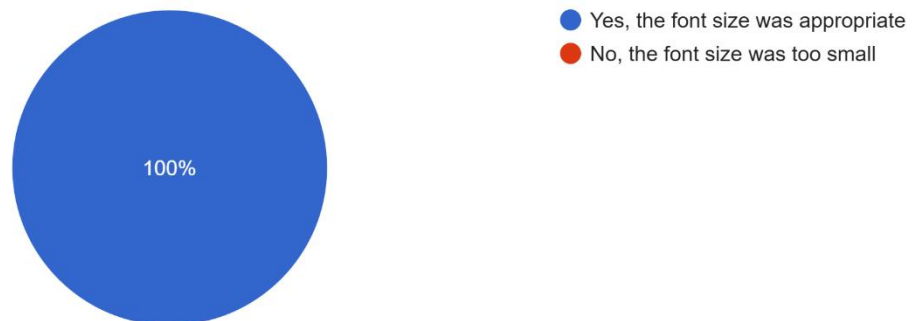
18. Was the dashboard page used to view the matched job listings easily found from the landing page (App)?

21 responses



19. Was the page easily readable?

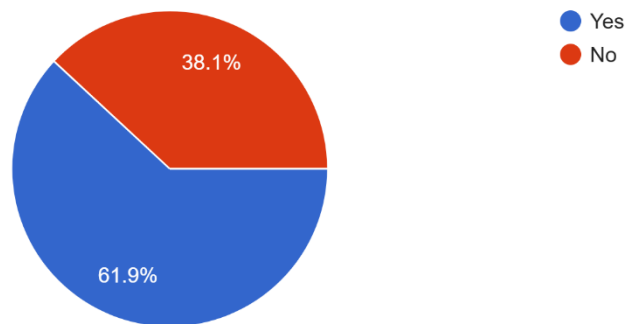
21 responses





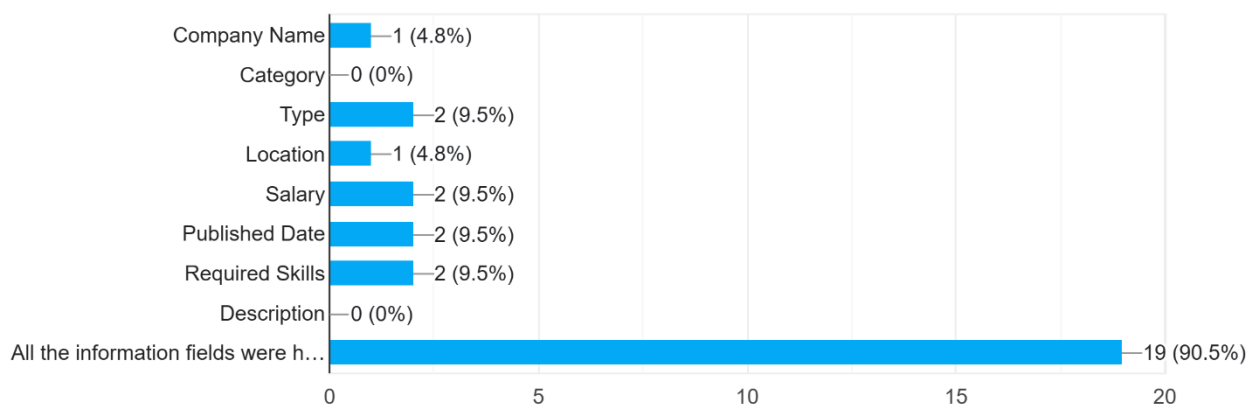
21. Would you (as a user) like to know how the job engine matches the job to your profile?

21 responses



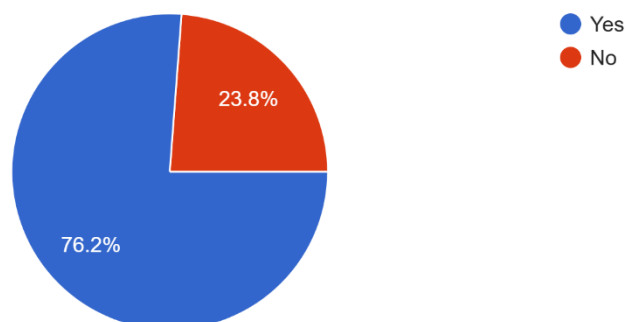
20. Of all the Job Listing information displayed, did you feel that certain attributes or pieces of information were useless to you as a user / not required? (Select all that apply)

21 responses



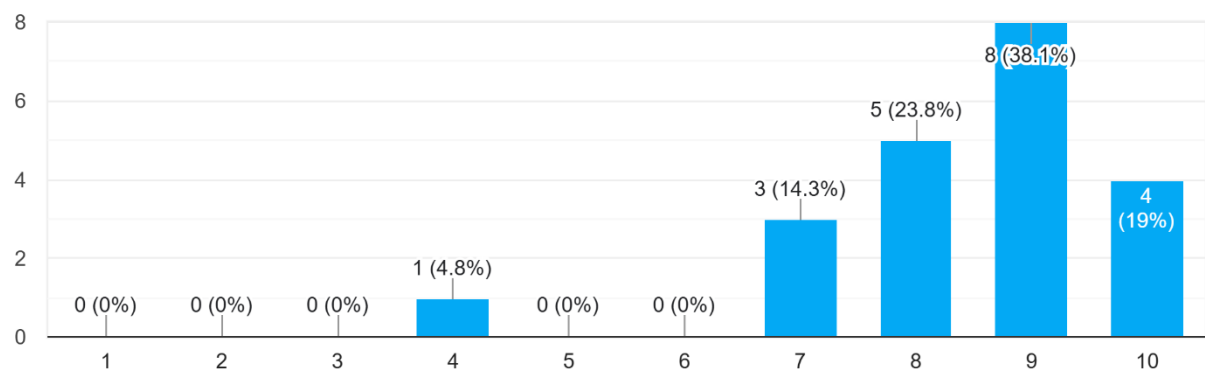
22. Would a description about the job matching logic improve user experience?

21 responses

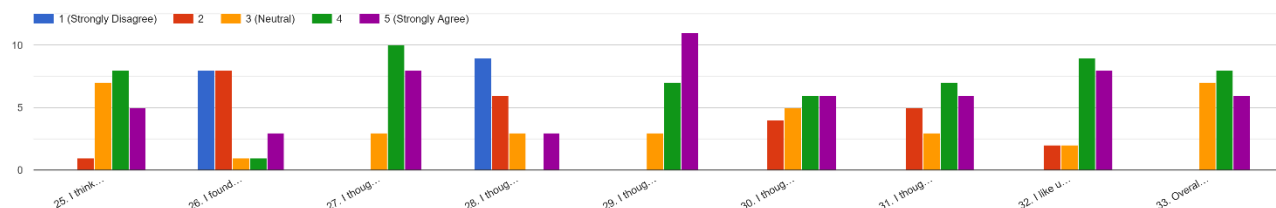


23. On a scale of 1 – 10, what would you rate the user interface of the dashboard page?

21 responses



Overall Rating Job Matcher: Rate the overall User Experience from 1 to 5 (1= Strongly disagree, 5=Strongly Agree)



### Analysis Summary:

Overall, the UI fared well in the usability testing feedback. Most users were happy with the design. Certain input fields could have used hints about the criteria for an input to be considered valid. A data usage policy notice would have significantly improved the user experience of many individuals. Some functional errors were also pointed out by individual during testing which hinted vulnerabilities in input validation logic.

### Link to Project:

[https://git.infotech.monash.edu/fit2107UG/2025s2/stha0083/-/tree/main/H3-UsabilityTesting?ref\\_type=heads](https://git.infotech.monash.edu/fit2107UG/2025s2/stha0083/-/tree/main/H3-UsabilityTesting?ref_type=heads)

### UI:

[https://git.infotech.monash.edu/fit2107UG/2025s2/stha0083/-/tree/main/H3-UsabilityTesting/pages?ref\\_type=heads](https://git.infotech.monash.edu/fit2107UG/2025s2/stha0083/-/tree/main/H3-UsabilityTesting/pages?ref_type=heads)

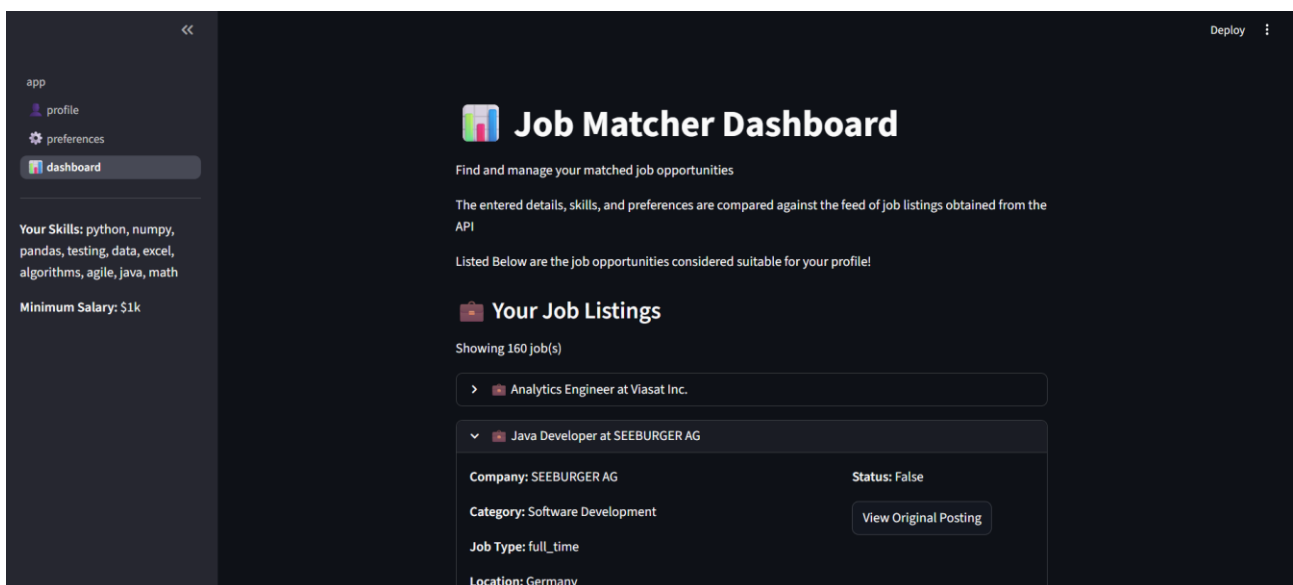
### Changes:

Most of the users also responded that the requirements for an input to be considered valid, if listed explicitly, would improve the user experience. Hence, the signup page and the preferences page now have a note about the criteria used for validating the user inputs

```

22 st.write("This data will be used to support upcoming features that can alert the user as soon as ")
23 st.write("a certain number of newly posted jobs are matched, to allow user to apply instantly")
24
25 # Instructions
26 st.write("Please fill up the details below to set up your profile start using the Job Matcher:")
27
28 data_manager = DataManager()
29 # Signup form
30 with st.form(key='profile_form'):
31
32     if data_manager.is_signed_in():
33         user_data = data_manager.get_user_data()
34         username = st.text_input(
35             "Username with more than 5 characters",
36             key='profile_username',
37             placeholder="must have 5+ chars",
38             value=user_data["user_name"]
39         )
40         email = st.text_input(
41             "Please enter a valid Email ID",
42             key='profile_email',
43             placeholder="mail@domain.extension",
44             value=user_data["user_mail"]
45         )
46     else:
47         username = st.text_input(
48             "Username",
49             key='profile_username',
50             placeholder="must have 5+ chars",
51             value=""
52         )
53         email = st.text_input(
54             "Email",
55             key='profile_email',
56             placeholder="mail@domain.extension",
57             value=""
58         )
59
60     if st.button("Save Profile"):
61         data_manager.save_user_data(username, email)
62
63     if st.button("Logout"):
64         data_manager.logout()
65
66     if st.button("Cancel"):
67         st.stop()
68
69 if __name__ == '__main__':
70     st.write("Job Matcher Dashboard")
71     st.write("Find and manage your matched job opportunities")
72     st.write("The entered details, skills, and preferences are compared against the feed of job listings obtained from the API")
73     st.write("Listed Below are the job opportunities considered suitable for your profile!")
74     st.write("Your Job Listings")
75     st.write("Showing 160 job(s)")
76     st.write("Analytics Engineer at Viasat Inc.")
77     st.write("Java Developer at SEEBURGER AG")
78     st.write("Company: SEEBURGER AG Status: False")
79     st.write("Category: Software Development View Original Posting")
80     st.write("Job Type: full_time")
81     st.write("Location: Germany")

```



Most of the users felt that a data usage note would make the user experience better, hence a note about data collection is added to sign up page, skills preferences collection is added to preferences page and the app job search page has a note now that explains how the collected data was used to match the jobs for the applicant according to his/her skills and preferences

### Added a not about how the jobs are matched to applicant's profile

<<

app

profile

preferences

dashboard

Deploy

## Set Up Your Preferences

Data Usage Policy:

The preferences entered will be used to search through the job listings and compare against your skills

If the user has most of the suitable skills needed for the job, the job listing will be considered as a good match, saved, and then displayed in the dashboard

Please enter your skills and preferences in the form below:

Enter a list of keywords that describe your skills

python, numpy, pandas, testing, data, excel, algorithms, agile, java, math

Enter the minimum salary in k (1000)

1

Save Preferences

<<

app

profile

preferences

dashboard

Deploy

## Set Up Your Profile

Data Usage Policy:

This data will be used to support upcoming features that can alert the user as soon as a certain number of newly posted jobs are matched, to allow user to apply instantly

Please fill up the details below to set up your profile start using the Job Matcher:

Username

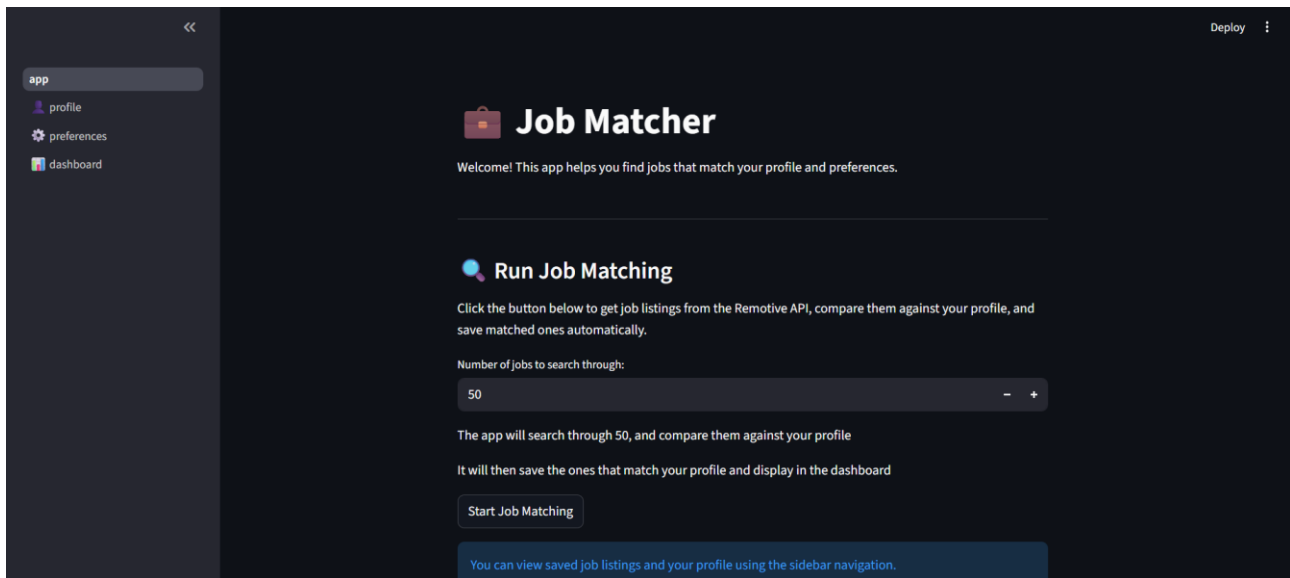
Ash Ketchum

Email

pikachu@pokemon.com

Save Profile

Clarified that the job will search through the number of jobs and not necessarily find n jobs to display to avoid confusion



## Hosting:

### GitHub Public Repo:

To host the app online, I pushed my code to a github repository and.

Then I modified app architecture conversion from a single user app style of architecture to the website style software architecture which allows multiple users to use the app independently in their own browsers. It was done by changing the app storage from on device csv file to streamlit session storage which removed the app's long term memory capabilities, but allowed it to behave and function as a website.

<https://github.com/fit2107/linkedinacc-sudo/JobMatcherD2>

### Hosting on Streamlit:

Then I hosted the app on Streamlit community cloud, setup the codebase to add the dependencies and server files to set up the deployment environment and understand the server logs post deployment to debug errors and successfully deploy the app on cloud to allow other users to use and test the app for usability anytime, anywhere without running it on terminal, and give feedback immediately. This is to encourage the users to test the app, use it, play around, and give genuine constructive feedback that can actually be used for making UI improvements.

app  
profile  
preferences  
dashboard

Set Up Your Preferences

Please enter your skills and preferences in the form below:

Enter a list of keywords that describe your skills

skill-1, skill-2, skill-3, . . . .

Enter the minimum salary in k (1000)

0

Save Preferences

150 | # left column: filters  
151 | with st.sidebar.form(key="filters"  
152 | | st.header("Filters")  
153 | | companies = ["(any)"] + sorted  
154 | | selected\_company = st.selectb  
155 | |  
156 | | types = ["(any)"] + sorted(li  
  
/home/adminuser/venv/lib/python3.12/site-pa  
in \_\_getitem\_\_  
  
4110 | | | if is\_single\_key:  
4111 | | | | if self.columns.nlevels  
4112 | | | | | return self.\_getter  
4113 | | | | indexer = self.columns.f  
4114 | | | | if is\_integer(indexer):  
4115 | | | | | indexer = [indexer]  
4116 | | | else:  
  
/home/adminuser/venv/lib/python3.12/site-pa  
py:417 in get\_loc  
  
414 | | | except ValueError as err  
415 | | | | raise KeyError(key) .  
416 | | | if isinstance(key, Hashable)  
417 | | | | raise KeyError(key)  
418 | | | | self.\_check\_indexing\_error(k  
419 | | | | raise KeyError(key)  
420 |  
  
KeyError: 'company\_name'  
/mount/src/jobmatcher2/D2-JobMatcher/src/nlp  
warnings.warn(f"en\_core\_web\_md not availabl  
  
main fit2107(linkedinacc-sudo/jobmatcher2... >

jobmatcher2-lmy9ftbv6eczsek67jnzl.streamlit.app

app  
profile  
preferences  
dashboard

Job Matcher

Welcome! This app helps you find jobs that match your profile and preferences.

Run Job Matching

Click the button below to fetch job listings from the Remotive API, match them against your profile, and save suitable ones automatically.

Number of jobs to fetch:

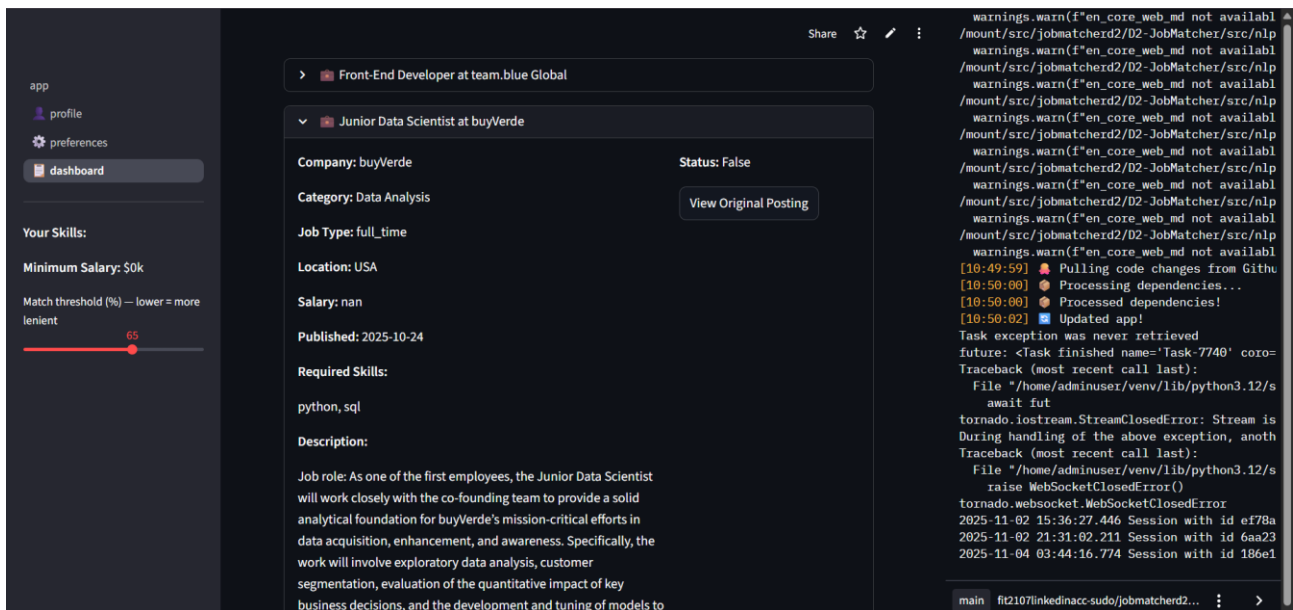
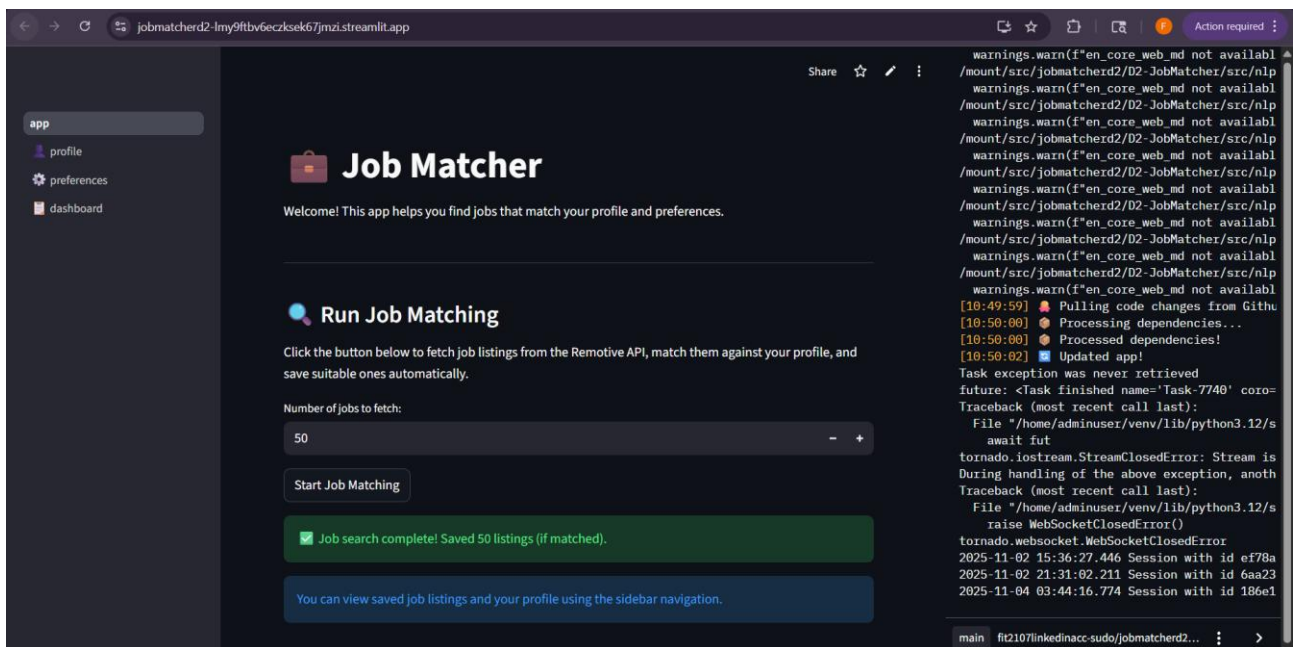
50

Start Job Matching

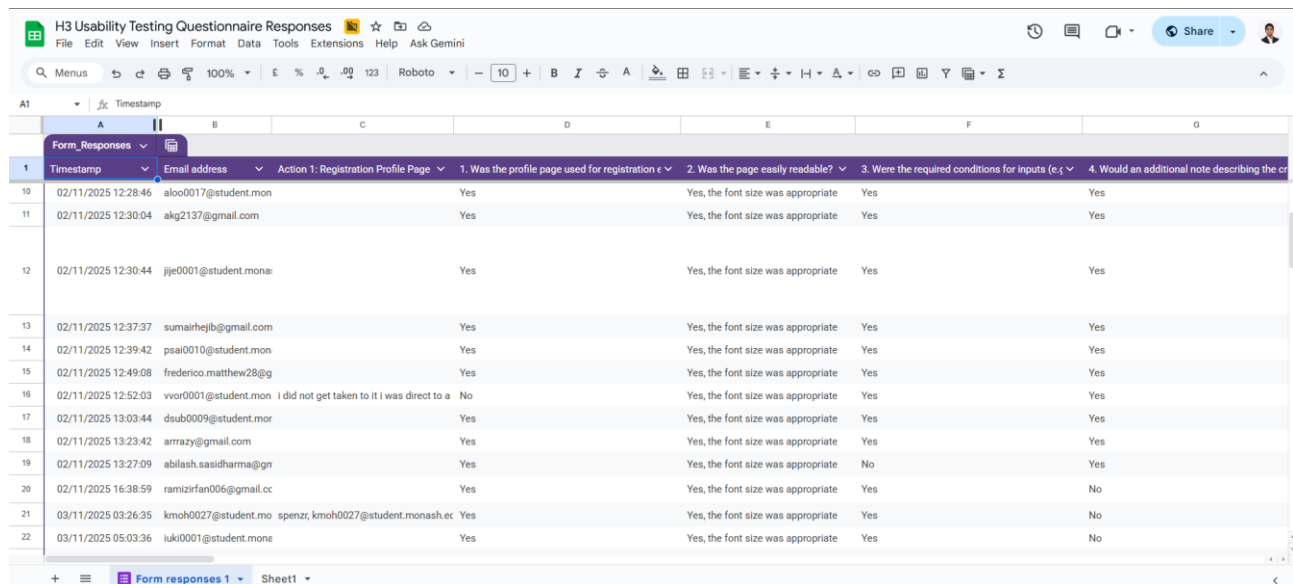
You can view saved job listings and your profile using the sidebar navigation.

Manage app

14



## Response Analysis:

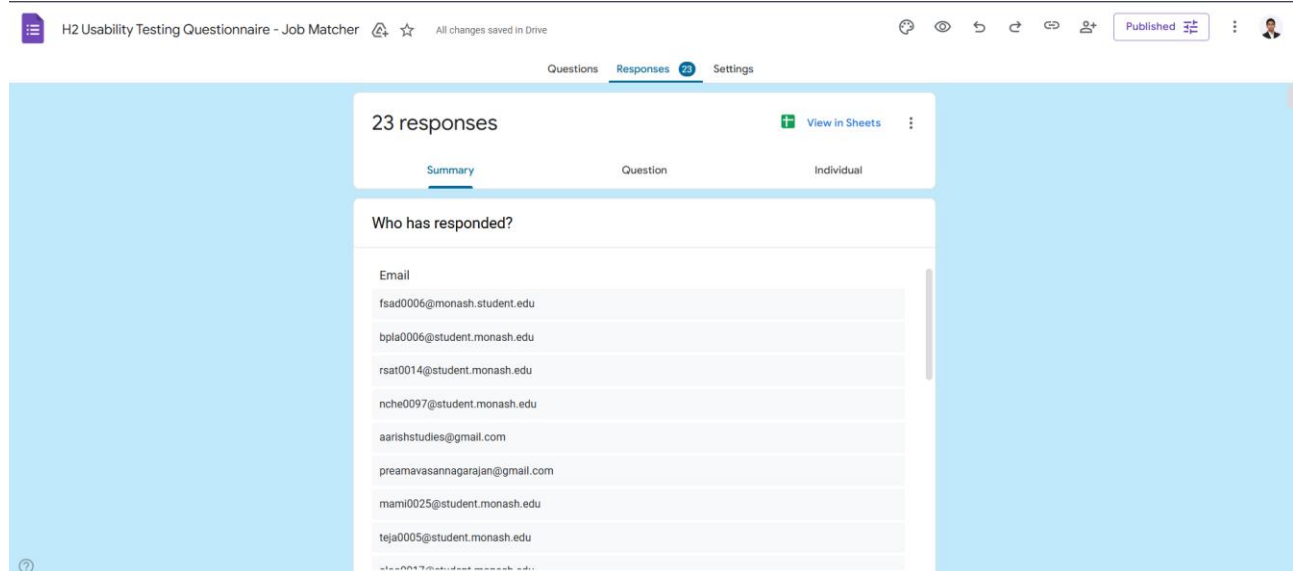


Form Responses	Timestamp	Email address	Action 1: Registration Profile Page	1. Was the profile page used for registration?	2. Was the page easily readable?	3. Were the required conditions for inputs (e.g., password strength)?	4. Would an additional note describing the experience be helpful?
10	02/11/2025 12:28:46	aloo0017@student.mon		Yes	Yes, the font size was appropriate	Yes	Yes
11	02/11/2025 12:30:04	akg2137@gmail.com		Yes	Yes, the font size was appropriate	Yes	Yes
12	02/11/2025 12:30:44	jje0001@student.mon		Yes	Yes, the font size was appropriate	Yes	Yes
13	02/11/2025 12:37:37	sumairhejb@gmail.com		Yes	Yes, the font size was appropriate	Yes	Yes
14	02/11/2025 12:39:42	psal0010@student.mon		Yes	Yes, the font size was appropriate	Yes	Yes
15	02/11/2025 12:49:08	frederico.matthew28@g		Yes	Yes, the font size was appropriate	Yes	Yes
16	02/11/2025 12:52:03	vvor0001@student.mon	I did not get taken to it I was direct to a	No	Yes, the font size was appropriate	Yes	Yes
17	02/11/2025 13:03:44	dsuh0009@student.mon		Yes	Yes, the font size was appropriate	Yes	Yes
18	02/11/2025 13:23:42	amrazy@gmail.com		Yes	Yes, the font size was appropriate	Yes	Yes
19	02/11/2025 13:27:09	abilash.sasidharma@gm		Yes	Yes, the font size was appropriate	No	Yes
20	02/11/2025 16:38:59	ramizirfan006@gmail.c		Yes	Yes, the font size was appropriate	Yes	No
21	03/11/2025 03:26:35	kmoh0027@student.mon	spenzr, kmoh0027@student.monash.ec	Yes	Yes, the font size was appropriate	Yes	No
22	03/11/2025 05:03:36	luki0001@student.mon		Yes	Yes, the font size was appropriate	Yes	No

Then I used the responses to analyse and make improvements to the UI

[https://docs.google.com/forms/d/1jzGQU1zvdoohhIIF49IFdm66ZcNWSwBnC\\_QvOLfsvlc/edit?ts=690741c7](https://docs.google.com/forms/d/1jzGQU1zvdoohhIIF49IFdm66ZcNWSwBnC_QvOLfsvlc/edit?ts=690741c7)

[https://docs.google.com/spreadsheets/d/1X0tNRLcHf6bpYmHG\\_sn1jpWhjfsDYWA8fOdz\\_mY0pFNQ/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1X0tNRLcHf6bpYmHG_sn1jpWhjfsDYWA8fOdz_mY0pFNQ/edit?usp=sharing)



H2 Usability Testing Questionnaire - Job Matcher

Questions Responses 23 Settings

23 responses

View in Sheets

Summary Question Individual

Who has responded?

Email

- fsad0006@monash.student.edu
- bpla0006@student.monash.edu
- rsat0014@student.monash.edu
- nche0097@student.monash.edu
- aarishstudies@gmail.com
- preamasannagarajan@gmail.com
- mami0025@student.monash.edu
- teja0005@student.monash.edu
- stac0013@student.monash.edu

## Reference:

<https://bubble.io/blog/usability-testing-questions/>

<https://www.rev.com/blog/usability-test-questions>