Extended Custom Project Report

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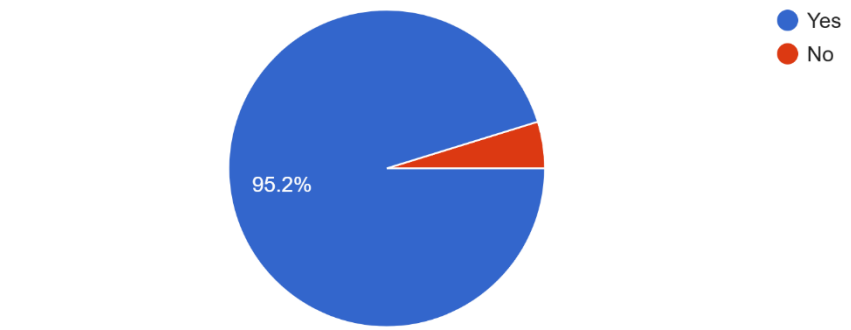
Date: 10-10-2025

Link to Questionnaire Created for Usability Testing
https://docs.google.com/forms/d/e/1FAIpQLSeb1VRQwKroKGBMjrJnbuZVFkW_0c8dvguAbJiezSuvfDRZig/viewform?usp=header

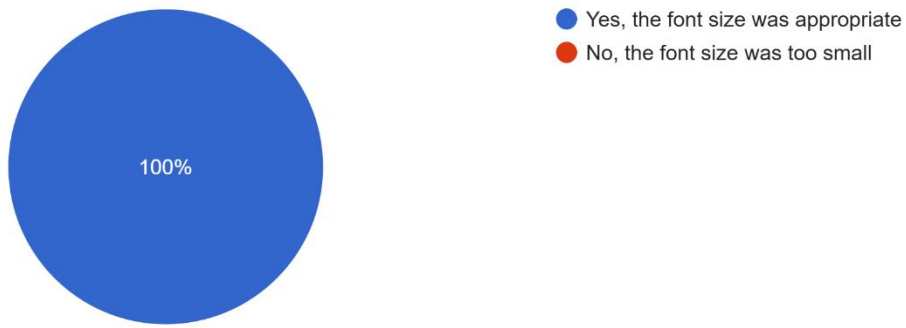
Link to responses to questionnaire based on UI demoed in D2:
https://docs.google.com/spreadsheets/d/1X0tNRLcHf6bpYmHG_sn1jpWhjfsDYWA8fOdzmY0pFNQ/edit?usp=sharing

Questionnaire Analytics and User Feedback

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

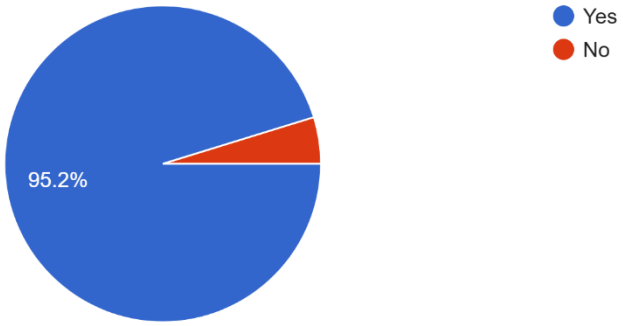


2. Was the page easily readable?
21 responses



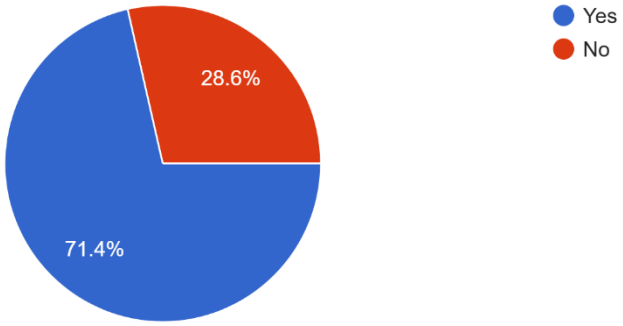
3. Were the required conditions for inputs (e.g., username length) intuitive to you?

21 responses



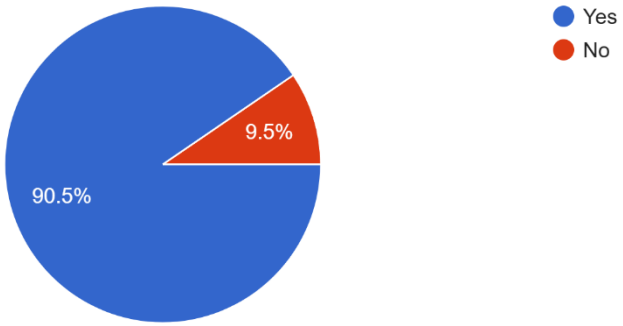
4. Would an additional note describing the criteria for the valid input conditions make your experience better?

21 responses



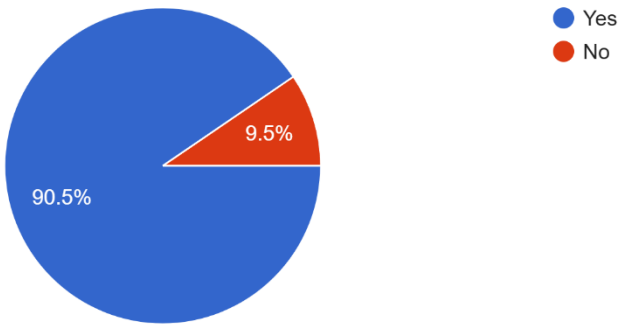
5. Would you (as a user) like to know why the details were collected?

21 responses



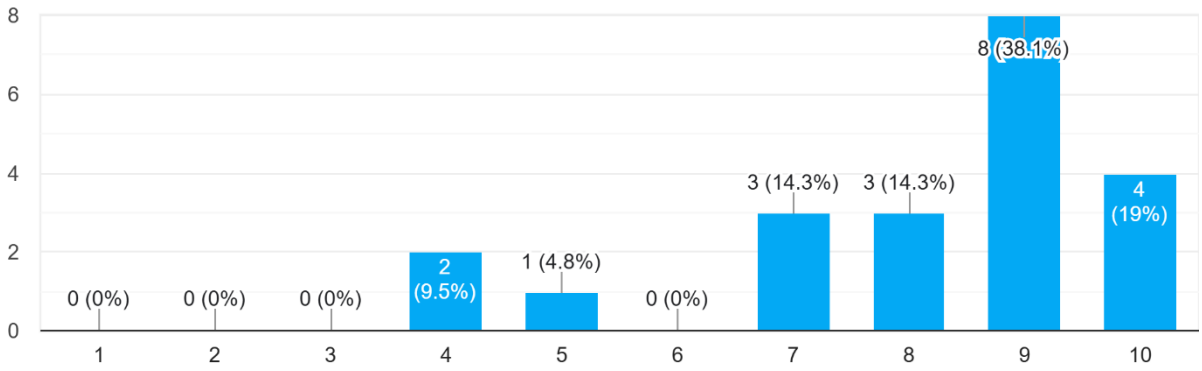
6. Would a description about the data usage improve user experience?

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

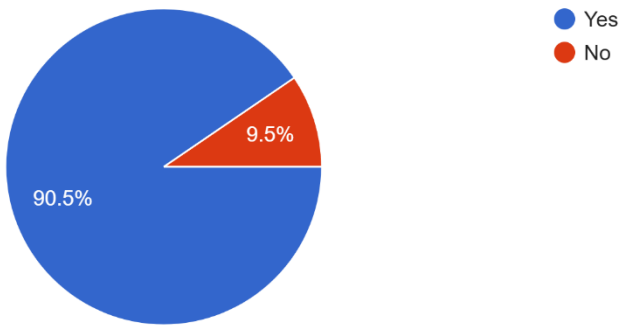
Worked well, was intuitive to use. I did not run into any bugs

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

add more styling

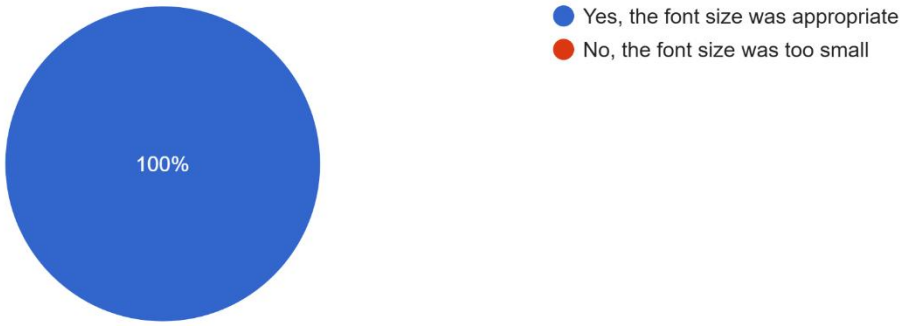
9. Was the preferences page used for set up easily found from the landing page (App)?

21 responses



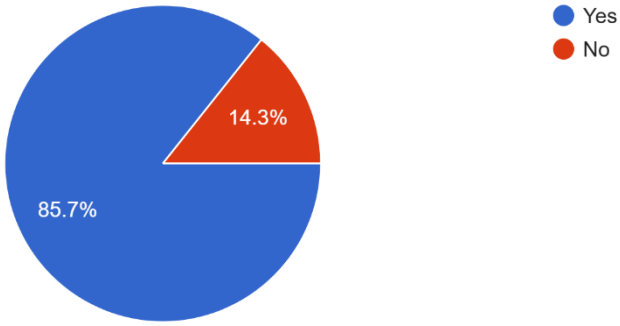
10. Was the page easily readable?

21 responses



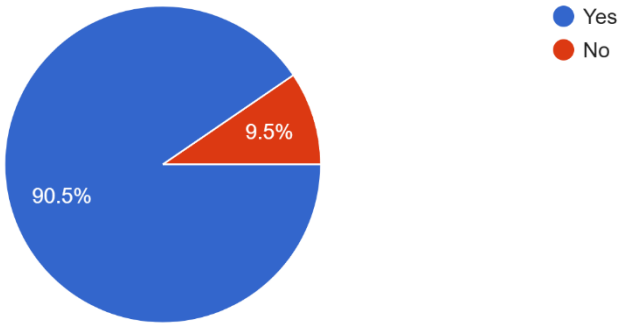
12. Would an additional note describing the criteria for the valid input conditions make your experience better?

21 responses



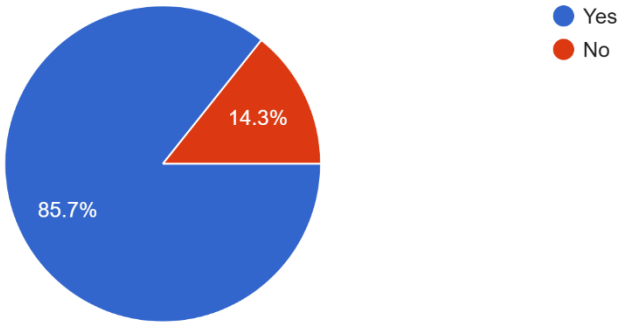
13. Would you (as a user) like to know how the collected inputs will be used?

21 responses



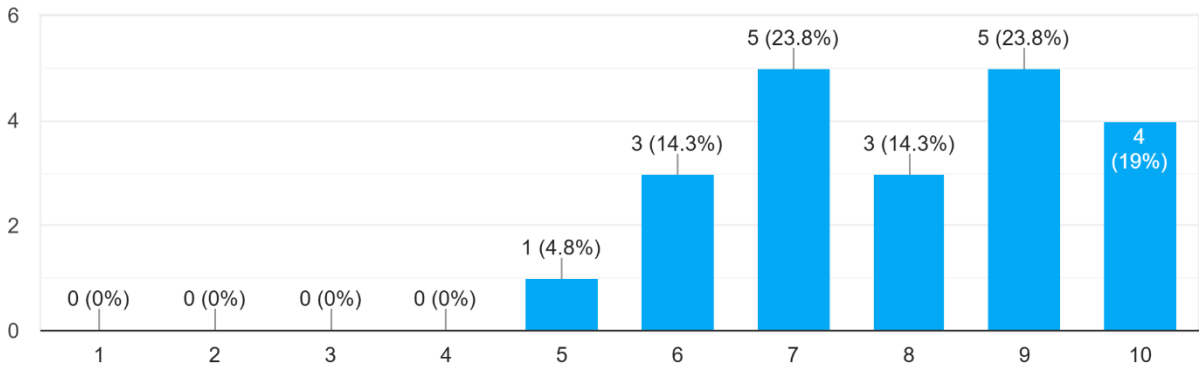
14. Would a description about the data usage improve user experience?

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 requirment. 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

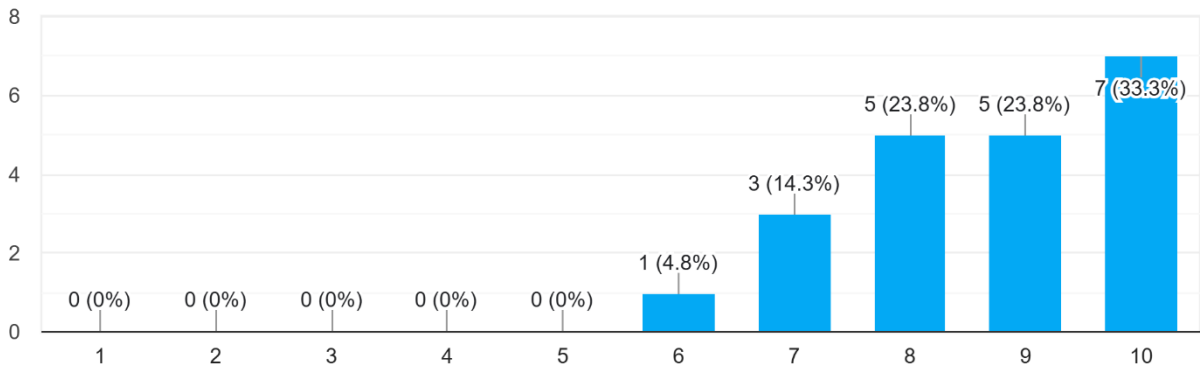
It's nice. No bugs

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



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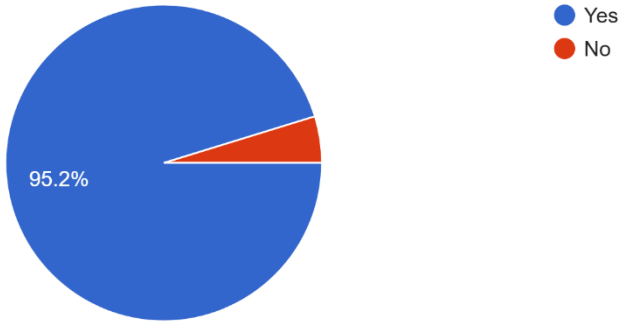
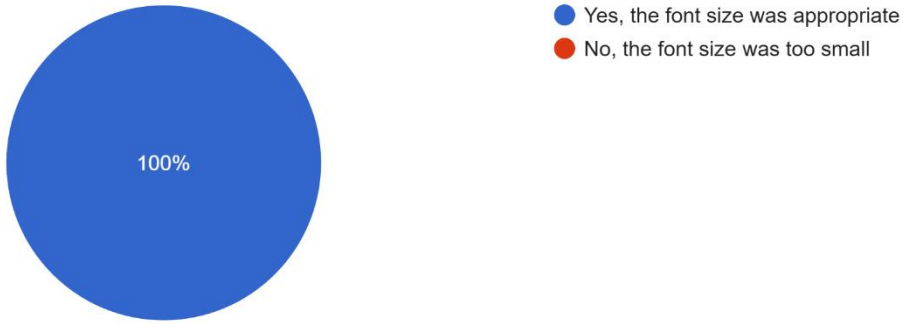
18. Was the dashboard page used to view the matched job listings easily found from the landing page (App)?

21 responses



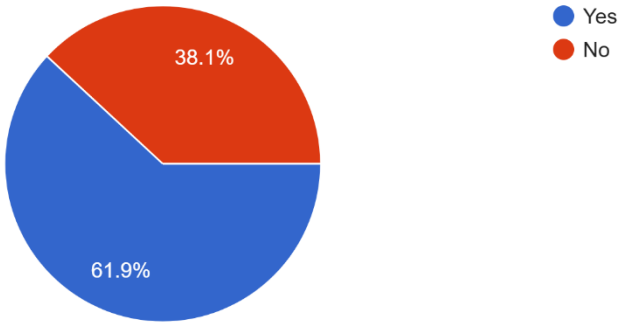
19. Was the page easily readable?

21 responses



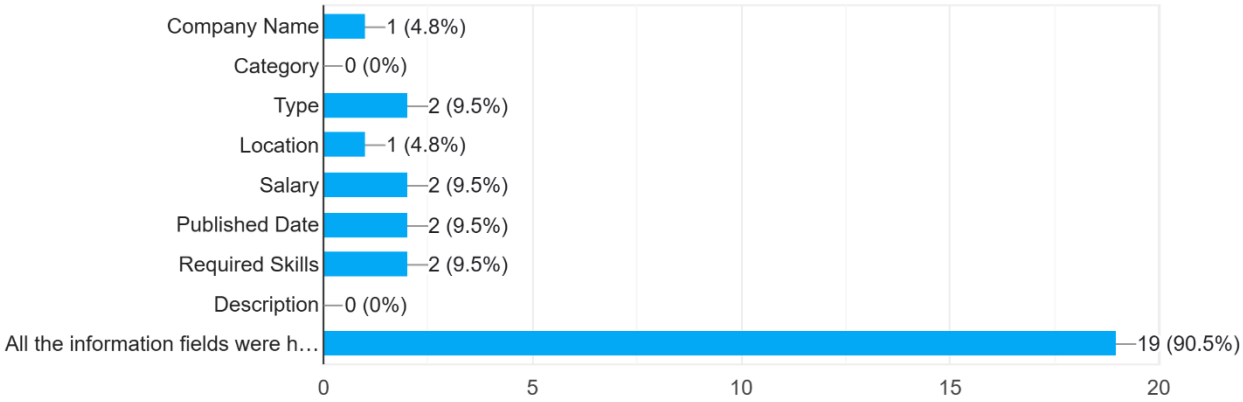
21. Would you (as a user) like to know how the job engine matches the job to your profile?

21 responses



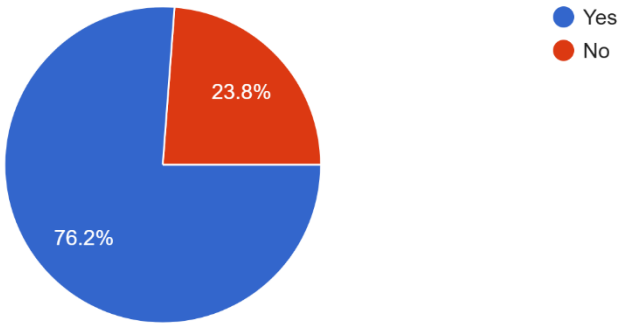
20. Of all the Job Listing information displayed, did you feel that certain attributes or pieces of information were useless to you as a user / not required? (Select all that apply)

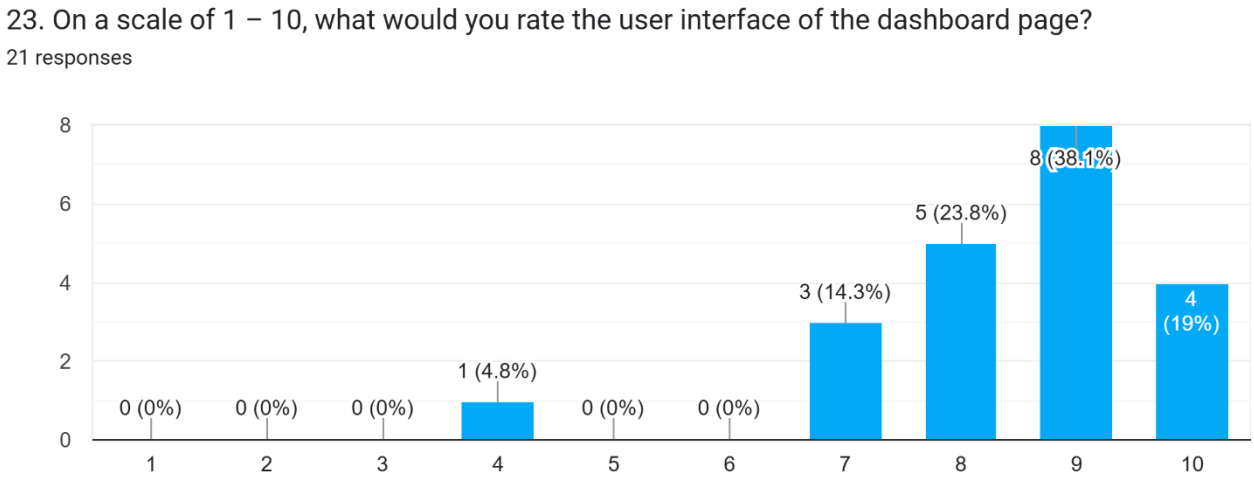
21 responses

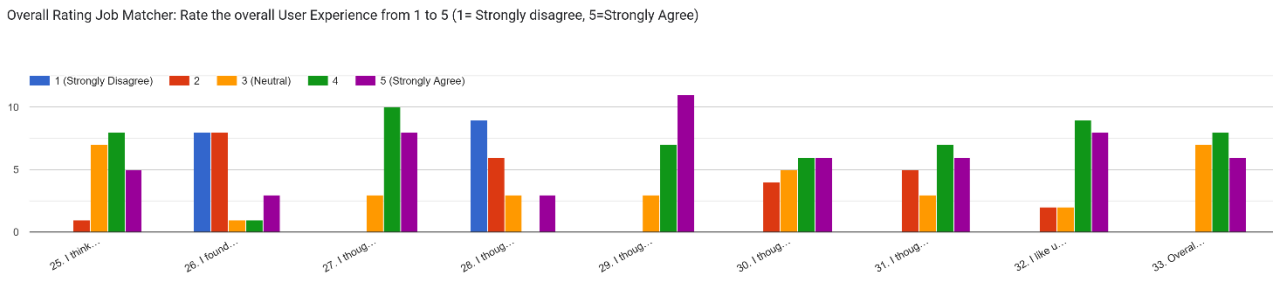


22. Would a description about the job matching logic improve user experience?

21 responses





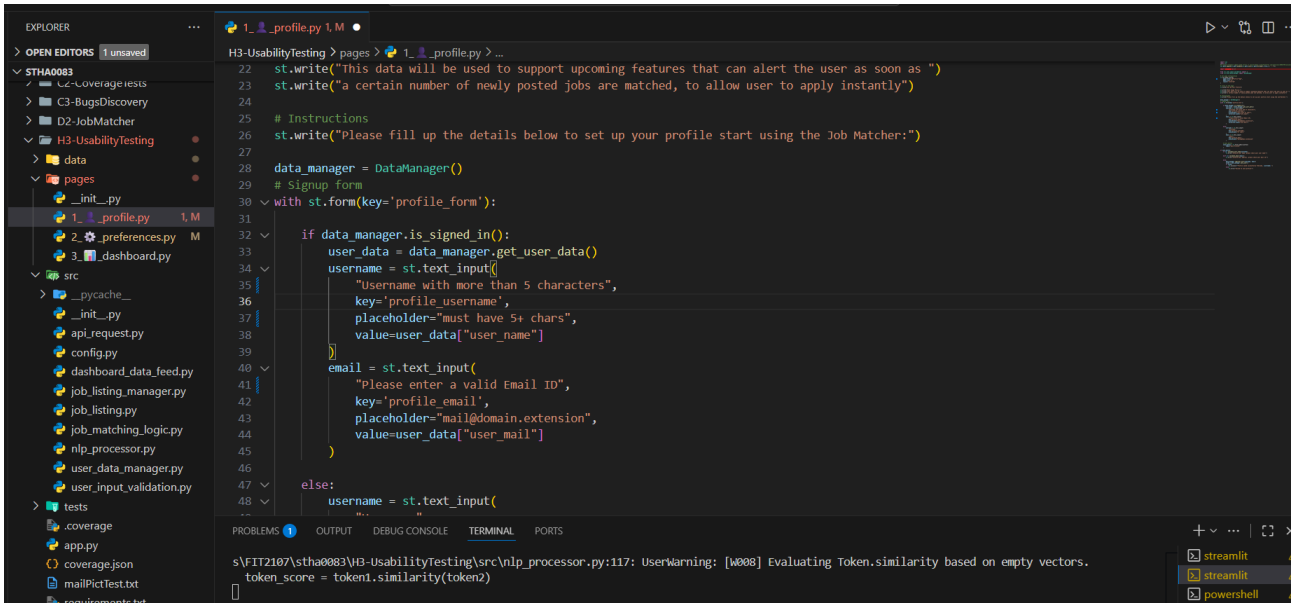


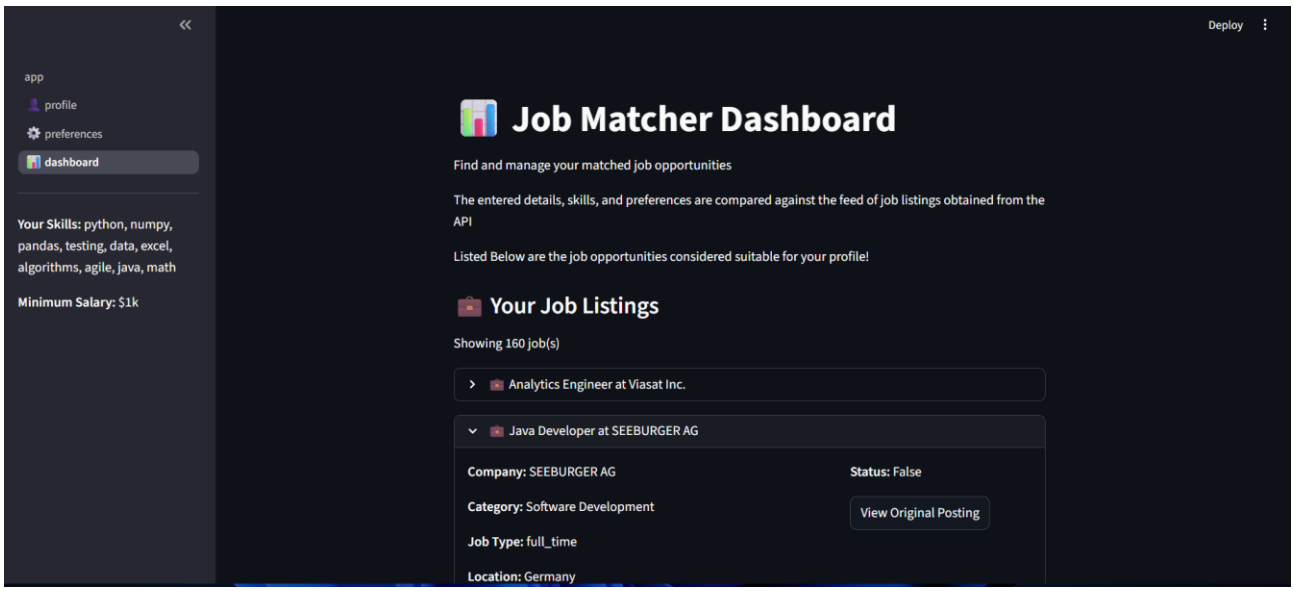
Analysis Summary:
Overall, the UI fared well in the usability testing feedback. Most users were happy with the design. Certain input fields could have used hints about the criteria for an input to be considered valid. A data usage policy notice would have significantly improved the user experience of 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

UI:
https://git.infotech.monash.edu/fit2107UG/2025s2/stha0083/-/tree/main/H3-UsabilityTesting/pages?ref_type=heads

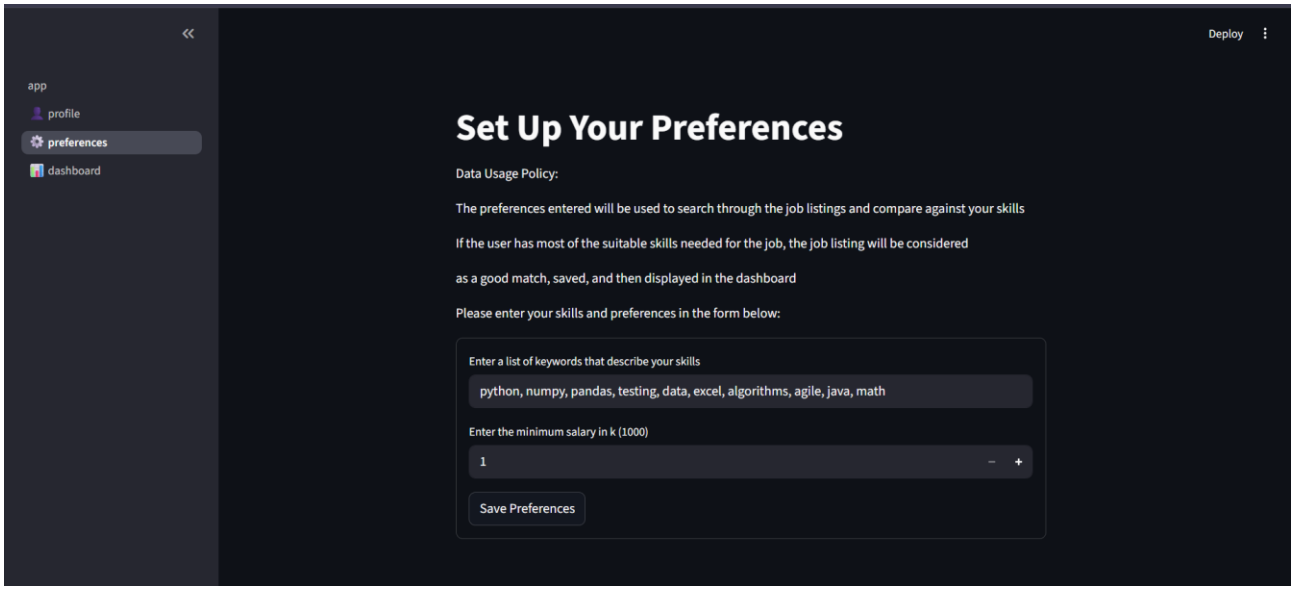
Changes:
Most of the users also responded that the requirements for an input to be considered valid, if listed explicitly, would improve the user experience. Hence, the signup page and the preferences page now have a note about the criteria used for validating the user inputs

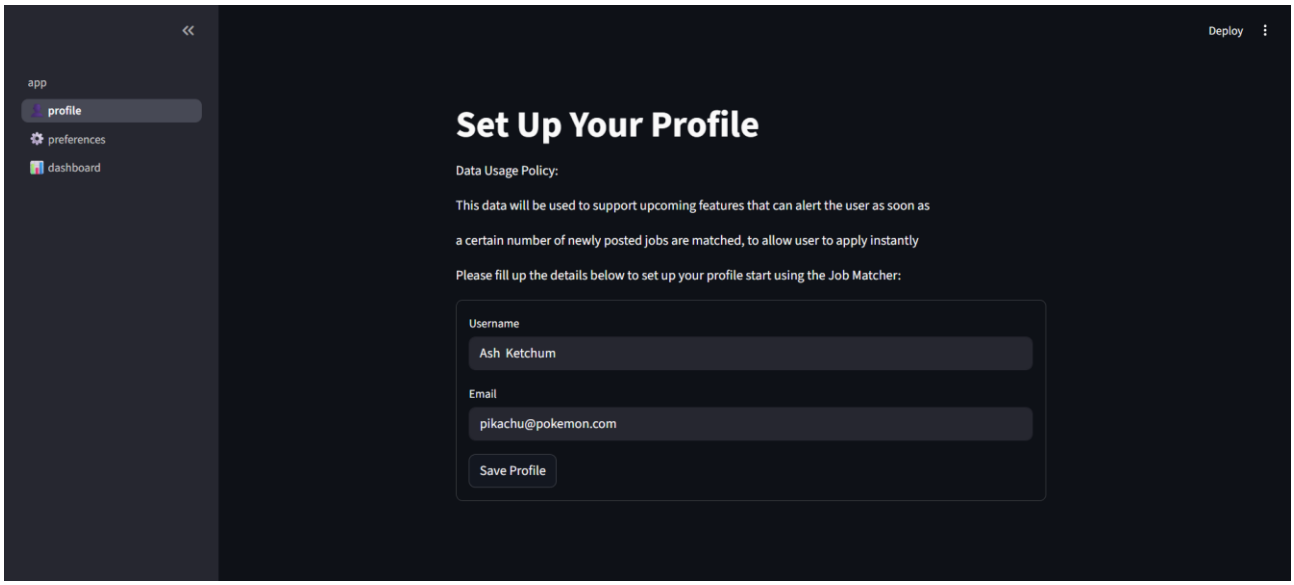




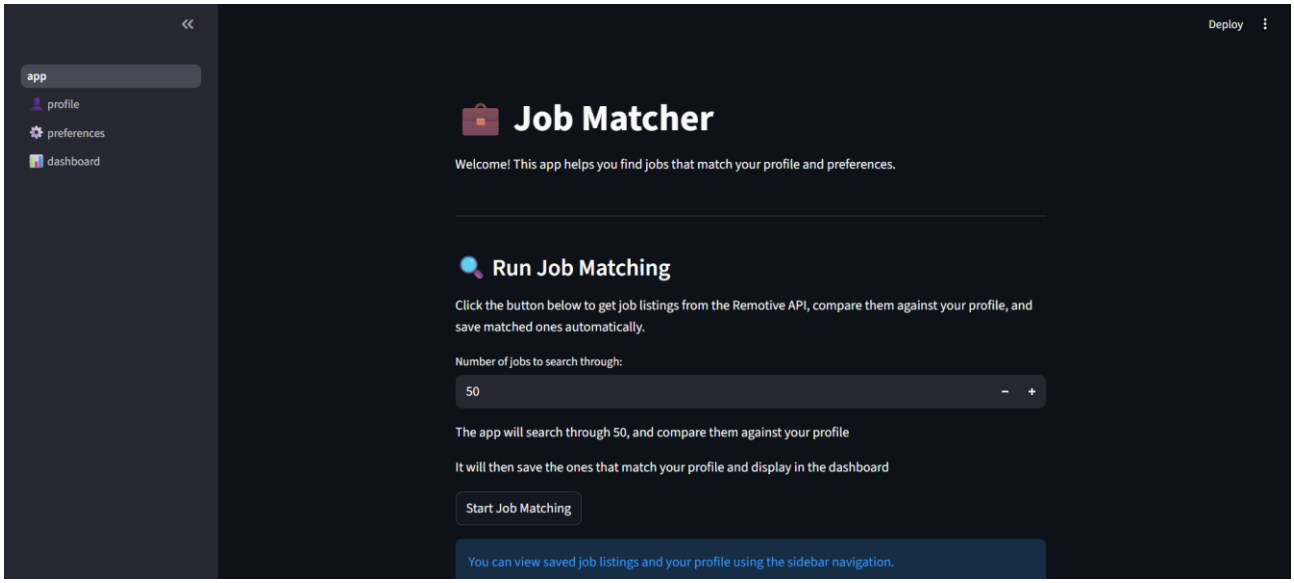
Most of the users felt that a data usage note would make the user experience better, hence a note about data collection is added is added to sign up page, skills preferences collection is added to preferences page and the app job search page has a note now that explains how the collected data was used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





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:

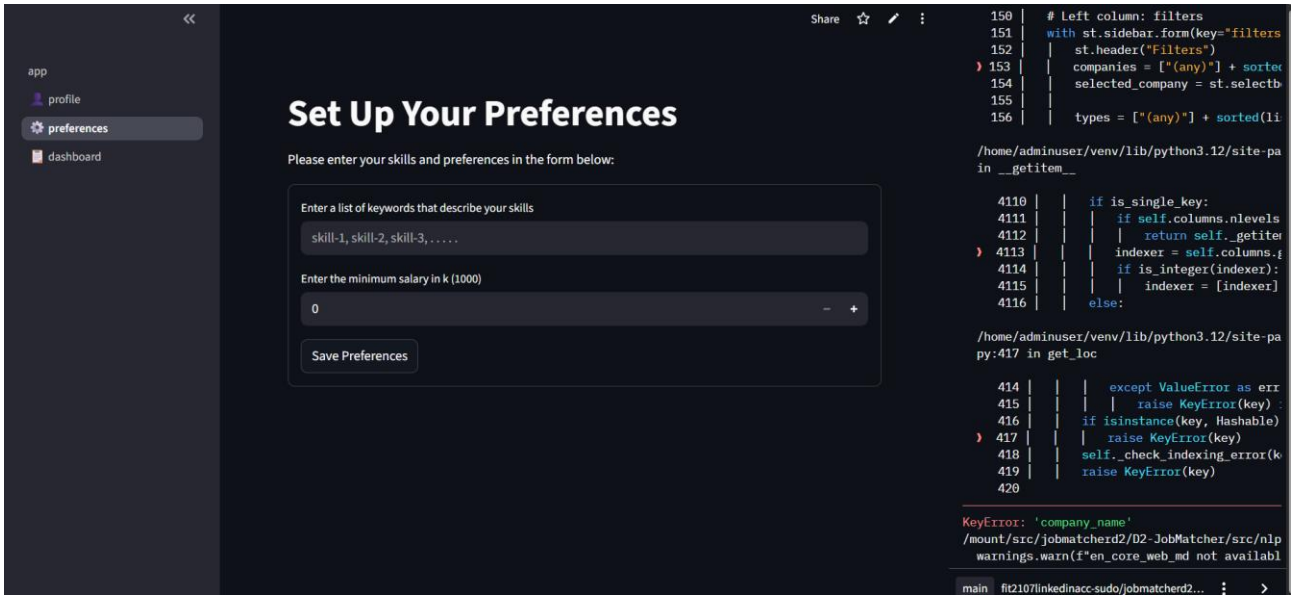
To host the app online, I pushed my code to a github repository and.

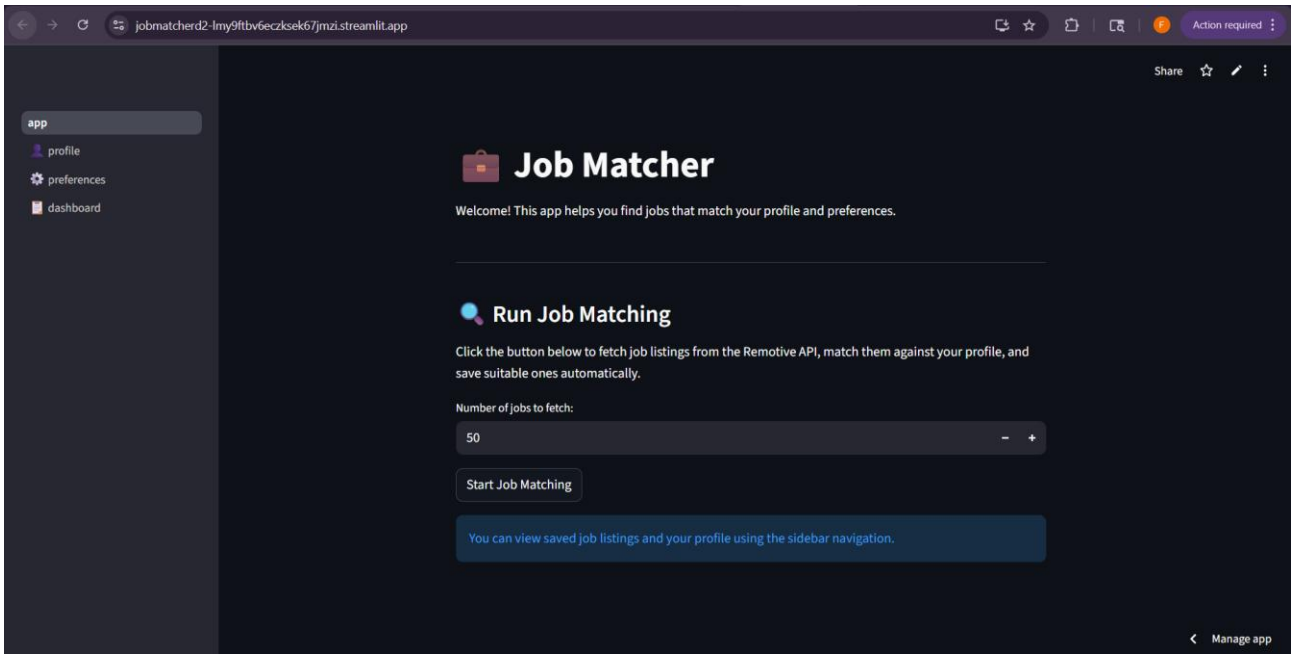
Then I modified app architecture conversion from a single user app style of architecture to the website style software architecture which allows multiple users to use the app independently in their own browsers. It was done by changing the app storage from on device csv file to streamlit session storage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

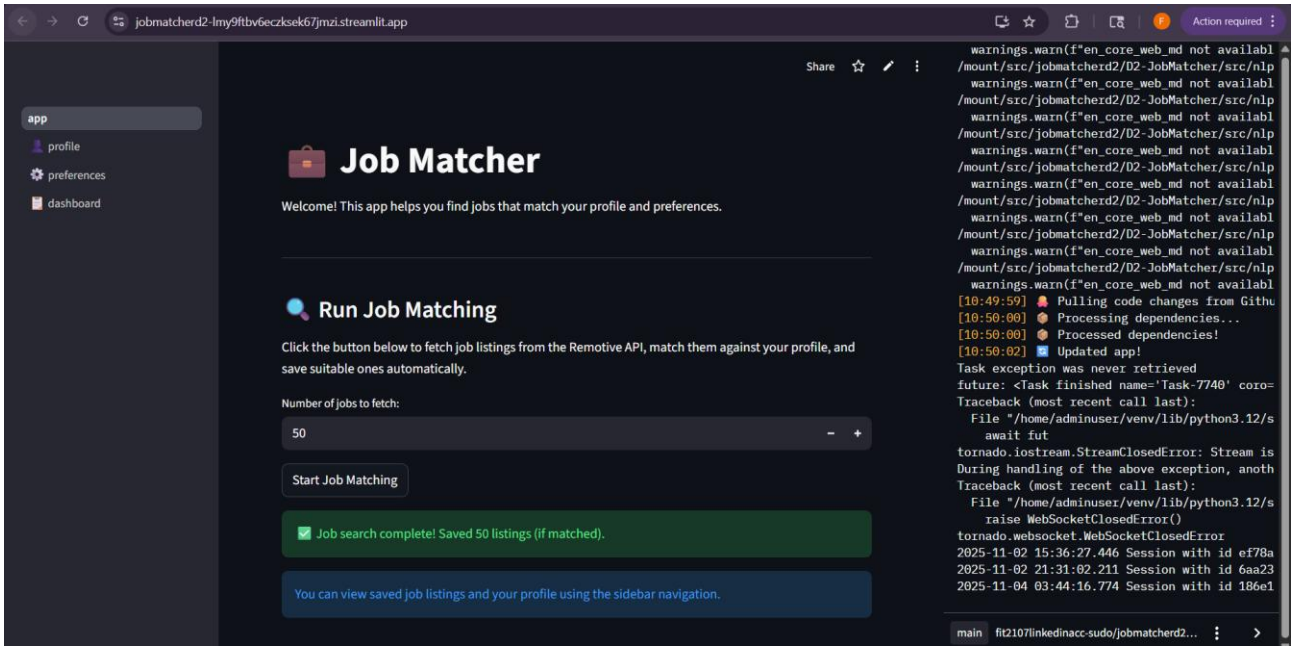
https://github.com/fit2107linkedinacc-sudo/JobMatcherD2

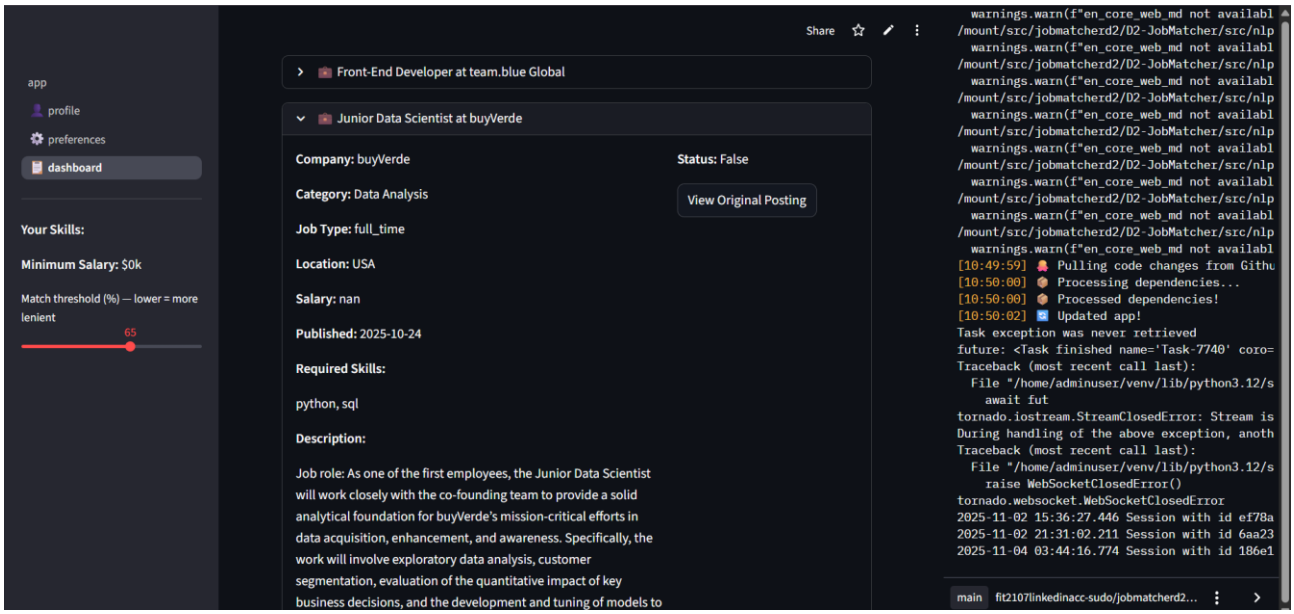
Hosting on Streamlit:

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
Share
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
Left column: filters
with st.sidebar.form(key="filters
st.header("Filters")
companies = ["(any)"] + sorte
selected_company = st.selectb
types = ["(any)"] + sorted(li
/home/adminuser/venv/lib/python3.12/site-pa
in __getitem__
if is_single_key:
if self.columns.nlevels
return self._getite
indexer = self.columns.
if is_integer(indexer):
indexer = [indexer]
else:
/home/adminuser/venv/lib/python3.12/site-pa
py:417 in get_loc
except ValueError as err
raise KeyError(key)
if isinstance(key, Hashable)
raise KeyError(key)
self._check_indexing_error(k
raise KeyError(key)
KeyError: 'company_name'
/mount/src/jobmatcherd2/D2-JobMatcher/src/nlp
warnings.warn(f"en_core_web_md not availabl
main
fit2107linkedinacc-sudo/jobmatcherd2...


jobmatcherd2-lmy9ftbv6eczksek67jmzi.streamlit.app
Action required
Share
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


jobmatcherd2-lmy9ftbv6eczksek67jmzi.streamlit.app
Action required
Share
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
Job search complete! Saved 50 listings (if matched).
You can view saved job listings and your profile using the sidebar navigation.
warnings.warn(f"en_core_web_md not availabl
/mount/src/jobmatcherd2/D2-JobMatcher/src/nlp
[10:49:59] Pulling code changes from Githu
[10:50:00] Processing dependencies...
[10:50:00] Processed dependencies!
[10:50:02] Updated app!
Task exception was never retrieved
future: <Task finished name='Task-7740' coro=
Traceback (most recent call last):
File "/home/adminuser/venv/lib/python3.12/s
await fut
tornado.iostream.StreamClosedError: Stream is
During handling of the above exception, anoth
Traceback (most recent call last):
File "/home/adminuser/venv/lib/python3.12/s
raise WebSocketClosedError()
tornado.websocket.WebSocketClosedError
2025-11-02 15:36:27.446 Session with id ef78a
2025-11-02 21:31:02.211 Session with id 6aa23
2025-11-04 03:44:16.774 Session with id 186e1
main
fit2107linkedinacc-sudo/jobmatcherd2...


Share
app
profile
preferences
dashboard
Your Skills:
Minimum Salary: $0k
Match threshold (%) — lower = more lenient
65
Front-End Developer at team.blue Global
Junior Data Scientist at buyVerde
Company: buyVerde
Status: False
Category: Data Analysis
View Original Posting
Job Type: full_time
Location: USA
Salary: nan
Published: 2025-10-24
Required Skills:
python, sql
Description:
Job role: As one of the first employees, the Junior Data Scientist will work closely with the co-founding team to provide a solid analytical foundation for buyVerde's mission-critical efforts in data acquisition, enhancement, and awareness. Specifically, the work will involve exploratory data analysis, customer segmentation, evaluation of the quantitative impact of key business decisions, and the development and tuning of models to
warnings.warn(f"en_core_web_md not availabl
/mount/src/jobmatcherd2/D2-JobMatcher/src/nlp
[10:49:59] Pulling code changes from Githu
[10:50:00] Processing dependencies...
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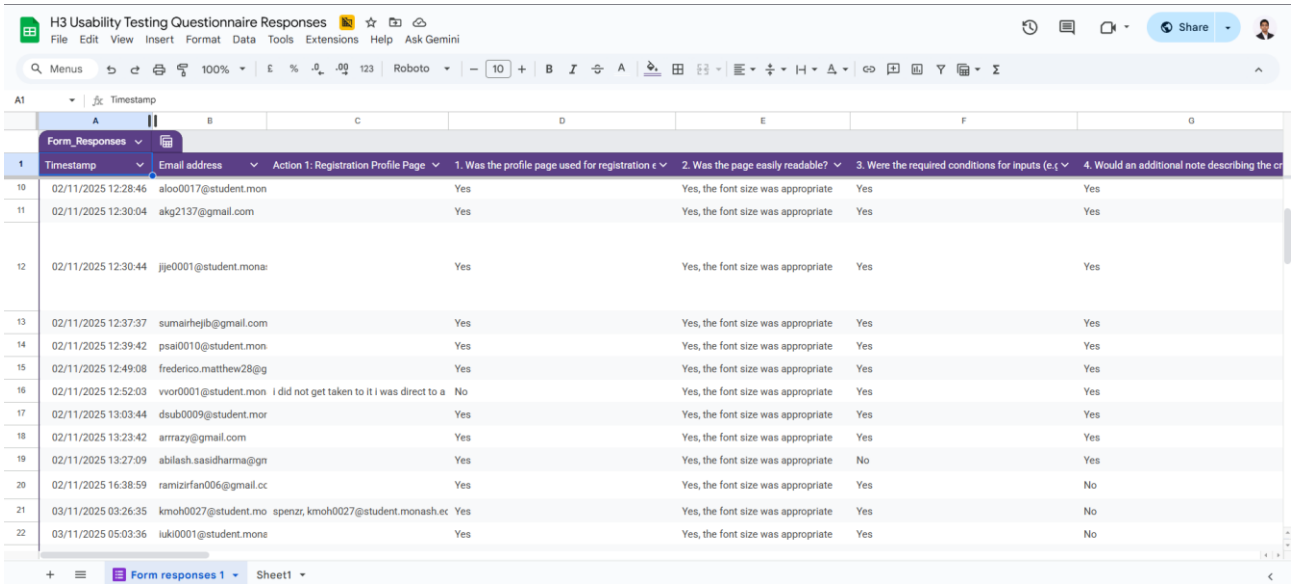
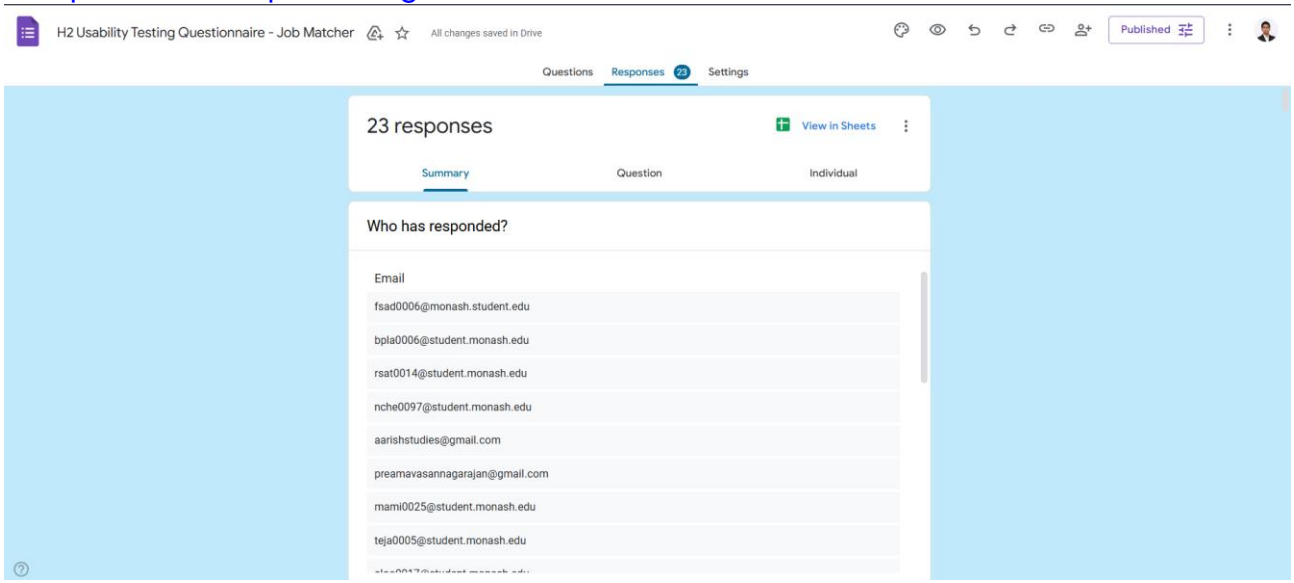
Task exception was never retrieved
future: <Task finished name='Task-7740' coro=
Traceback (most recent call last):
File "/home/adminuser/venv/lib/python3.12/s
await fut
tornado.iostream.StreamClosedError: Stream is
During handling of the above exception, anoth
Traceback (most recent call last):
File "/home/adminuser/venv/lib/python3.12/s
raise WebSocketClosedError()
tornado.websocket.WebSocketClosedError
2025-11-02 15:36:27.446 Session with id ef78a
2025-11-02 21:31:02.211 Session with id 6aa23
2025-11-04 03:44:16.774 Session with id 186e1
main
fit2107linkedinacc-sudo/jobmatcherd2...

Response Analysis:



Then I used the responses to analyse and make improvements to the UI
https://docs.google.com/forms/d/1jzGQU1zvdoohhllF49lFdm66ZcNWSwBnC_QvOLfSv1c/edit?ts=690741c7
https://docs.google.com/spreadsheets/d/1X0tNRLcHf6bpYmHG_sn1jpWhjfsDYWA8fOdzmY0pFNQ/edit?usp=sharing



Reference:

https://bubble.io/blog/usability-testing-questions/
https://www.rev.com/blog/usability-test-questions