

Project Archive - Job Tracker

Installation and Instructions document

CS 497: Capstone Project

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Installation and Usage Guide

Job Tracker is a modern web application that allows users to track their internship/job hunting efforts. Users can use the application to track applications, contacts, and skills as well as the relationships between each. Skills can be added to applications from the existing skills database or created brand new on the fly. Users can also rate their proficiency in each skill. Applications can link to multiple contacts and vice versa. Links to external postings such as glassdoor can also be included in each application. This guide is intended to provide a step by step explanation of the use of the Job Tracker web application.

Home

The live version of the application is hosted using Google's GCloud. To get started, click the following link to access the application index route:

<https://capstone-frontend-377023.uc.r.appspot.com/>

The Home screen will check if the user is logged in. Because individual user data is protected, sign in or login is required to proceed using the application.

Once logged in, the home screen will display the following options:

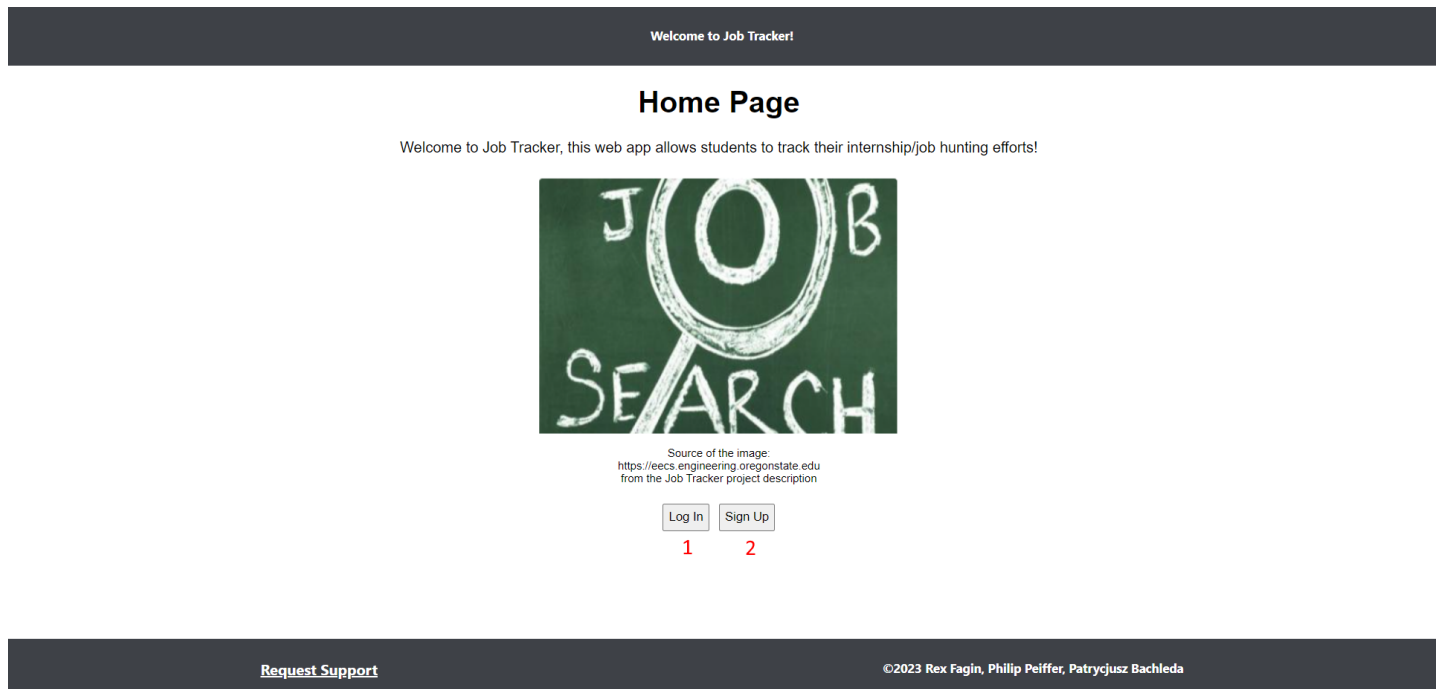
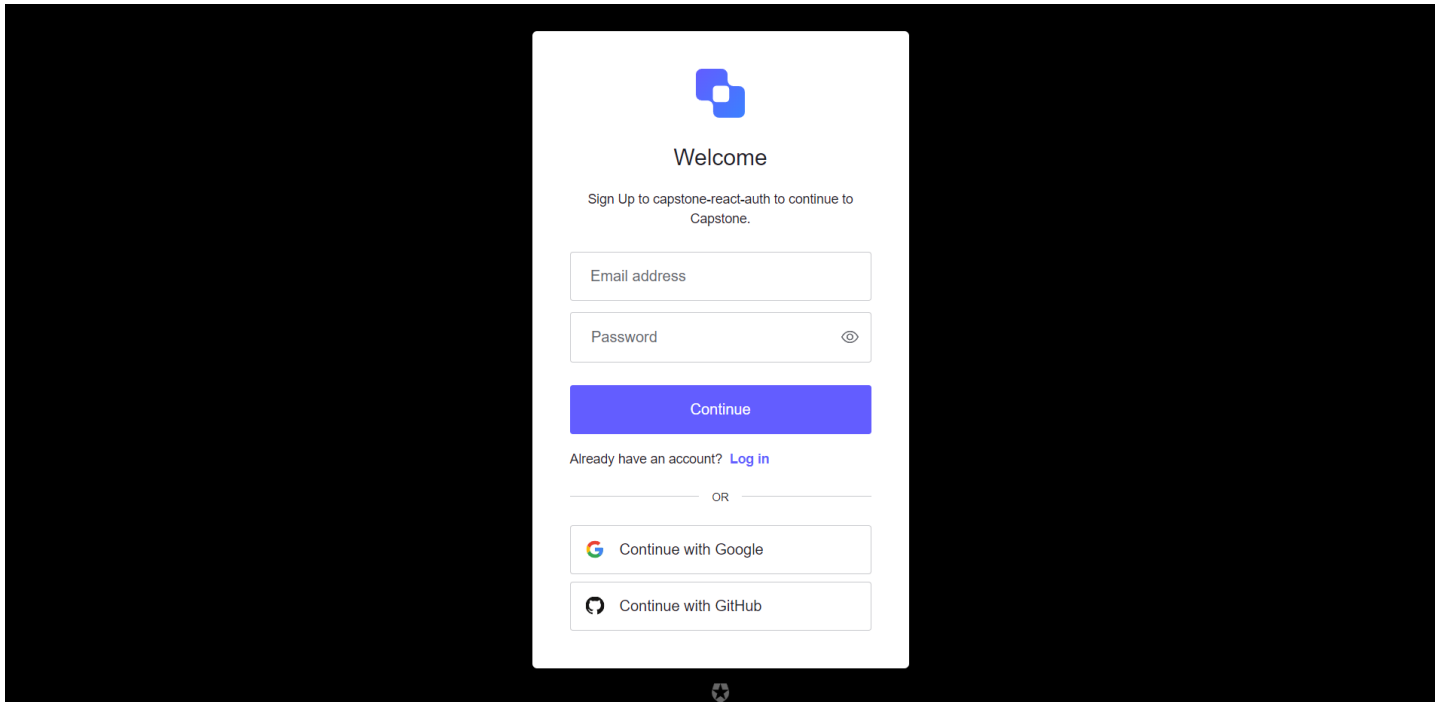


Fig 1

Fig 1 shows the main page before logging in. Select either Log In (1) or Sign Up (2) and you will be redirected to the user login/sign up page:



Welcome

Sign Up to capstone-react-auth to continue to Capstone.


Email address

Password

Continue

Already have an account? [Log in](#)

OR

 Continue with Google


 Continue with GitHub

Fig 2

Fig 2 Shows an example of the Sign up page which is similar to the login page. Enter a valid email address and password, or authenticate via Google or GitHub account.

Once authenticated, the user will be directed back to the landing page.

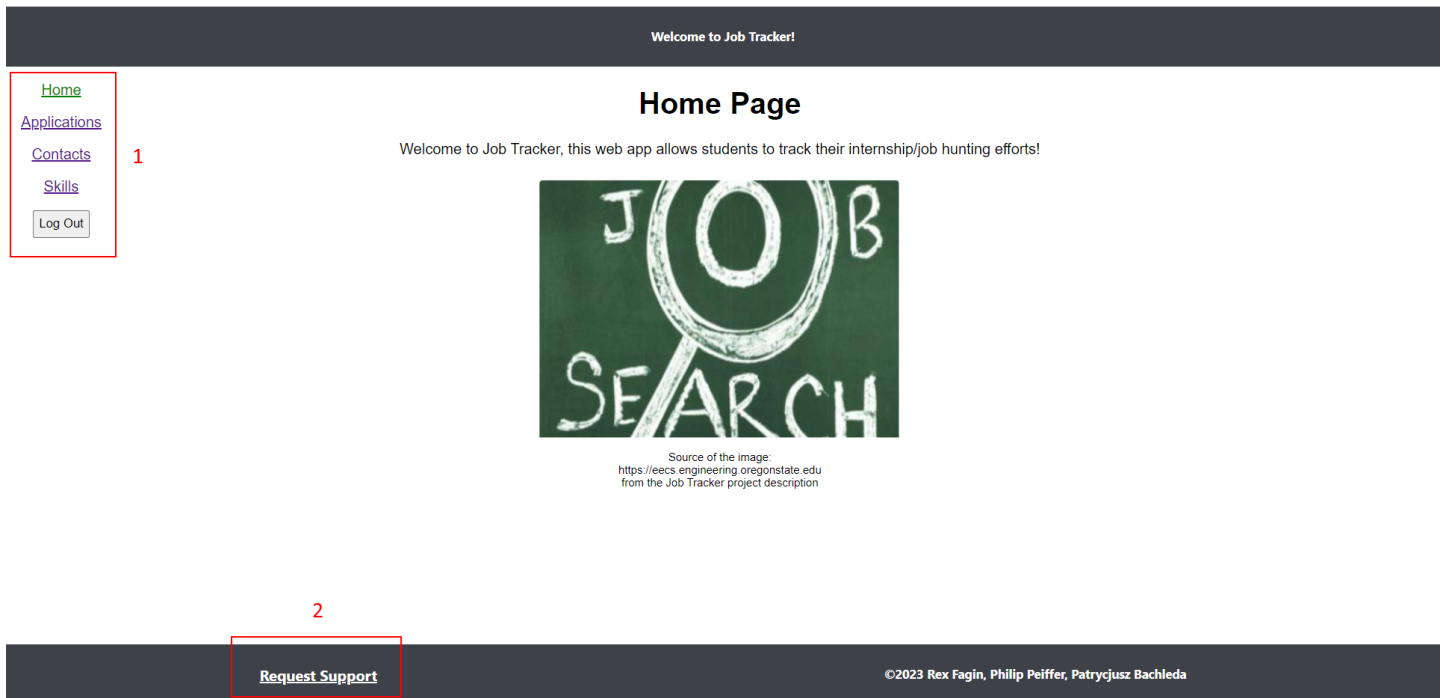


Fig 3

Fig 3 shows an example of the User Interface from the landing page. There are 2 main areas of interest, each noted with a number by the highlighted outline:

1. **Navbar** - This is the main navigation section of the site. From here, a user can select a link to travel to each main section's viewable route. Users can also logout here.
2. **Request Support** - Link to the support request form. Request responses will be emailed to the email address provided in the submission.

Applications

From the navbar, the current open view is the Home route. The next possible selection is the Applications route. Select the 'Applications' link from the navbar

Application Page

Filter By Status: --No Filter-- 1

Your applications:

Data Scientist

Job description

Title: Data Scientist

Location: Portland, OR

Duration: 2 year contract

General Job Duties:


Skills:
Github
Python


Contacts:
Jim Davis

Posted: 2023-03-08

Status: Applied

<https://www.google.com/search?q=data+science+jobs&sxsrf=AJOqlzVhve1NFTaY...>

 3

 4

Add Application 5

Fig 4

Fig 4 is the view/display route for applications. A table of all applications that have been saved is displayed under the text "List of your applications:". This table can be broken down into several sections:

1. **Filter Applications** - Filter application list by status. Choose from no filter, applied only or not applied applications
2. **Application Data** - Includes all information for a given application. Note that urls will redirect to the entered url.
3. **Edit** - Each application can be edited at any time by selecting the corresponding pencil icon.
4. **Delete** - Each application can be deleted at any time by selecting the corresponding trash can icon. (Deletion is permanent).
5. **Add New Application** - Users can add a new application at any time with this button.

The three main interactive elements of this page (other than filters) are Edit, Delete and Add New. Each application can be deleted at any time by selecting the corresponding trash can icon in this column (Deleting is not reversible, please make sure you are really ready to delete the data). Select the Edit button on any row.



Close

Edit Application

Title (max chars: 100):

Data Scientist

1

Description (max chars: 5000):

Job description

Title: Data Scientist

Location: Portland, OR

Duration: 2 year contract

General Job Duties:

- Use predictive modeling, machine learning, and other advanced analysis to increase and optimize customer experiences, revenue generation, prospect targeting and other business outcomes.
- Actively work with internal and external customers to analyze business data needs, gather and document business and data architecture requirements
- Develop data science pipelines with scalable endpoints and full orchestration/automation
- Develop data and model pipelines with tools like AzureML SDK, Azure Data factory, Databricks, Spark or related technologies
- Create automated anomaly detection systems and monitor its performance and model drift
- Ensure highest levels of data accessibility, security, and quality at all stages
- Develop rapid prototype proof of concept solutions for

2

Posting Date:

03/08/2023



3

Status:

--Select Status--



4

Link (max chars: 2048):

<https://www.google.com/search?q=data+science+jobs>

5

Current Contact(s):

"Jim Davis"

Remove all current contacts

or select new Contacts to add to Application:

(unchecked items will be removed)

Select... ▼

or leave as it is.

6

Current Skill(s):

"Github", "Python"

Remove all current skills

or select new Skills to add to Application:

(unchecked items will be removed)

Select... ▼

or leave as it is.

7

Submit Changes

8

Fig 5

Edit can be broken into 7 main entry fields, and two buttons:

1. **Title** - Title of the application.
2. **Description** - The description of the application
3. **Posting Date** - The date the application was posted. Use the calendar to make a selection
4. **Status** - The status of the application. Either 'Applied' or 'Not Applied' can be selected
5. **External Link** - The link where the original posting resides. Make sure the link is valid when inputting
6. **Contact** - Contact information for the application contact. Under "Current Contacts", the currently assigned contacts will be shown. If no contacts are associated with the application "None" will be shown instead. There is an option to remove all contacts, as

well as an undo remove all contacts if remove all was pressed. From the dropdown any number of contacts can be selected. If new contacts are selected, old contacts will be removed if they aren't selected as part of the replacement values.

7. **Skills** - Skills associated with the position. This works the same way as contacts (see above)
8. **Submit** - Submits the currently entered data, and overwrites the application record with this information. Redirects back to the Applications view route.

Note that clicking the 'Close' button (at the top of fig 5) or clicking out of the window will cancel any changes. After submitting changes or canceling, from the main applications route (Fig 4) select 'Add a New Application' (Fig 4, 5)

Welcome to

< Close

ation

status: --No Fi

application:

Add Application

Title (max chars: 100):
Enter Title (required)

Description (max chars: 5000):
Enter Description (required)

Skills:
Select...

Contacts:
Select...

Posting Date:
mm/dd/yyyy

Status:
Applied

External Link (max chars: 2048):
Enter Link

Add Application

Fig 6

Fig 6 shows the Add Application page. This page operates much the same as the Edit Application page. Please note that for new applications, Title and Description are required values and the 'Add Application' button will not submit until both title and description values have been entered.

Contacts

The next section of the Job Tracker application is the Contacts section. From the navbar (Fig 3, 1), select the Contacts link

Contact Page

Your contacts:

1	2	3	4
First Name (click to sort)	Last Name (click to sort)	Email	Phone
Jim	Davis	jdavis@email.com	111-111-1111
Info about the contact			
Indotronix Rep			
Related to job			
Data Scientist			
Edit			
Delete			


5

Fig 7

The contacts page is very similar to the applications page. The page will display the user's contacts data in table format (Fig 7), which can be roughly divided into the following sections:

1. **Text Data** - Contact First Name, Contact Last Name, Contact Email, Contact Phone, and Notes, are all displayed as plain text outputs
2. **Contact for Application**- Displays applications that the contact is for (under development, currently placeholder links). If applicable, the external url link is displayed.
3. **Edit** - Each row (contact) can be edited at any time by selecting the corresponding pencil icon in this column.
4. **Delete** - Each row (contact) can be deleted at any time by selecting the corresponding trash can icon in this column (Deleting is not reversible, please make sure you are really ready to delete the data)
5. **Add New Contact** - Users can add a new contact at any time with this link.

The three main interactive elements of this page (other than external links) are Edit, Delete and Add New. Each row (application) can be deleted at any time by selecting the corresponding trash can icon in this column (Deleting is not reversible, please make sure you are really ready to delete the data). Select the Edit button on any row.

 Close

Edit Contact

First Name:

Jim

1

Last Name:

Davis

2

Email:

jdavis@email.com

3

Phone:

111-111-1111

4

Notes:

Indotronix Rep

5

Your previously selected application(s):

"Data Scientist"

There are several options here:

You can remove all the selected application(s)

Delete all

or select new application(s) associated with the contact

or leave it as is.

Select...

▼

6

Submit Changes

7


Fig 8

From the Edit Page (Fig 8), several inputs and options are available. They can be broken down as follows:

1. **First Name** - The first name of the contact

2. **Last Name** - The last name of the contact
3. **Email** - The email address of the contact
4. **Phone** - The phone number for the contact
5. **Notes** - Any notes relevant to the contact
6. **Applications** - Similar to “Skills” and “Contacts” in the application section. Here you can see what applications are connected to the contact, remove them, undo removal, and select new applications to link
7. **Submit** - Save and submit your changes, and redirect back to the Contacts page.

After submitting changes or canceling, from the main contacts route (Fig 7) select ‘Add a New Application’ (Fig 7, 5)

 Close

Add Contact

First Name:

required field

Last Name:

required field

Email:

optional field

Phone:


optional field

Notes:

optional field (max 500 characters)

Select applications associated with the contact (optional):

Select...



Add Contact

Fig 9

Fig 9 shows the Add Contact page. This page operates much the same as the Edit Contact page. Please note that for new contacts, First Name and Last Name are required values and the 'Add Contact' button will not submit until both title and description values have been entered.

Skills

The next section of the Job Tracker application is the Skills section. From the navbar (Fig 3, 1), select the Skills link

Your current skills:

Most Referenced:

Github

App Count: 1

Proficiency:

3

Python

App Count: 1

Proficiency:

4

1

All:

Filter By Proficiency: [--No Filter-- v]

2

A	
B	
C	
D	
E	
F	
G	<div><div><div>Github</div><div>App Count: 1</div><div>Proficiency:</div><div><div>3</div></div></div></div>
H	
I	
J	
K	
L	
M	
N	
O	

3

The image shows a user interface for managing skills. It features three horizontal filter buttons labeled 'Y', 'Z', and 'Other'. Below these is a button labeled 'Add New Skill'. To the right of the 'Add New Skill' button is a red number '4'.

Fig 10

From the skills page (Fig 10), there are two main areas of interest:

1. **Most Referenced** - Lists up to 5 skills associated with the skills appearing on the greatest number of applications the user has entered.
2. **Filter by Proficiency** - Allows the user to filter skills shown by proficiency level.
3. **All Skills Added** - Alphabetically organized list of skills that the user has added. Skills show how many apps a skill appears on owned by the user, as well as the user's proficiency in a certain skill. Click to edit or delete individual skills
4. **Add New Skill** - Allows the user to add skills

Selecting the 'Add New Skill' button will bring up the add skill pane seen below

< Close

Add Skill to Your Profile

1 2

1		
3		
5		
6		
7		
8		3
88		
Angular		
C lang		
C#		
C+		
CSS		
Git		
Github	<input checked="" type="checkbox"/>	
Java		
JavaScript		
Node.js		
PostgreSQL		
Python	<input checked="" type="checkbox"/>	
React.js		

Fig 11

From the Add New Skill pane (Fig 11), a few options are available:

1. **Search** - Allows the user to search for existing skills to add to their profile, filtering the list displayed.
2. **Create New** - Brings up the inputs for creating a new skill. Users can submit a skill description and proficiency for the new skill.
3. **Toggle skills** - Shows the list of all known skills in the database. Blue outlined skills can be clicked to quickly add them to the users skills, and green skills (already added) can be clicked to remove the skill from a user.

Clicking an existing skill “card” from the main skills route will bring up the following inputs:

The image shows a user interface for editing a skill. At the top is a grey bar with a back arrow and the text 'Close'. Below this is the skill name 'Python' with a trash icon to its left, annotated with a red '1'. Underneath is the label 'Proficiency:' followed by a text input field containing the number '4', annotated with a red '2'. Below that is the section header 'Tied to Applications:' followed by a bulleted list containing 'Data Scientist', annotated with a red '3'. The next section is 'Add To Application:' followed by a dropdown menu with the text 'Select...' and a downward arrow, annotated with a red '4'. At the bottom is a button labeled 'Confirm Updates', annotated with a red '5'.

Fig 12

1. **Title** - Title of the skill. Clicking the trash can will allow the user to remove the skill
2. **Proficiency** - Proficiency level with the skill. The user can rate themselves for each skill from 1 to 5
3. **Applications** - Shows what applications owned by the user the skill is tied to.

4. **Add to Application** - Allows the user to change which applications the skill is associated with.
5. **Confirm Updates** - Save changes and redirect back to the skills route.

Support

The footer of each page includes a link to the support request form (see Fig 3, 2). Click this button to access the support request form:

Fig 13

The support form allows the user to contact the technical support team with issues or troubleshooting related to the Job Tracker app. The form has 3 simple parts:

1. **Email** - Allows the user to enter their email address for the team to contact them if necessary
2. **Issue Description** - Allows the user to write out a description of the issue at hand
3. **Submit** - Allows the user to submit the request

Please note both an email address and the issue description are required to be filled out before the request can be sent