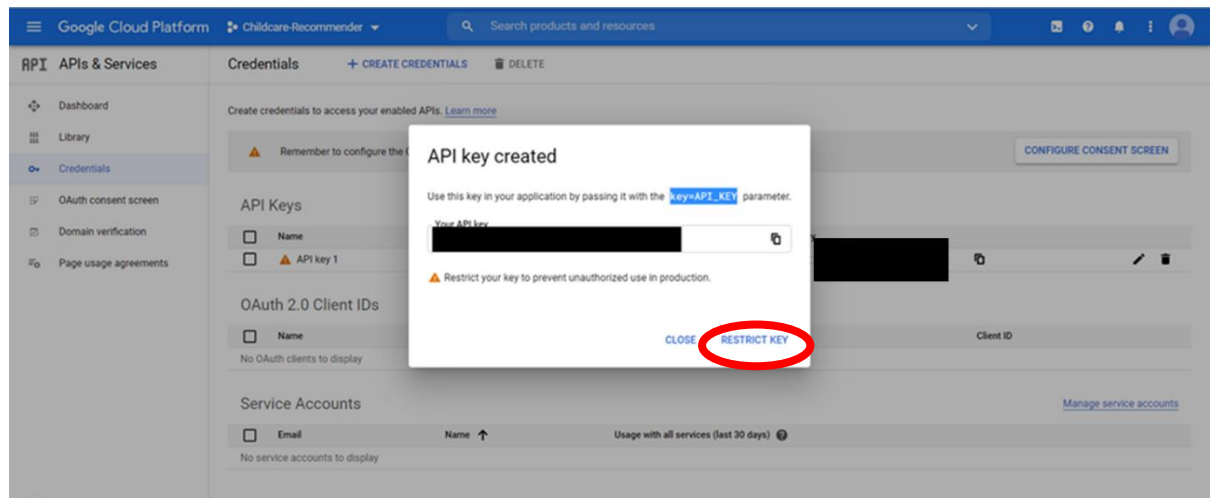


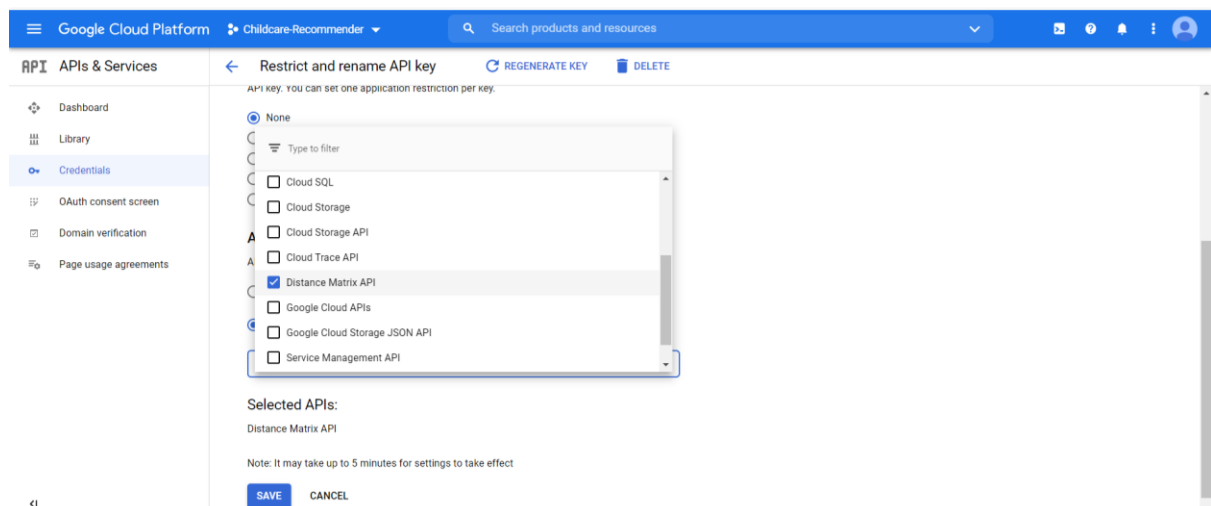
1. Download iss-vm and get it running

Set up Google API key with distance matrix API

2. Go to Google Cloud Platform and create a new credential > Then click “Restrict key”



3. Select Distance Matrix API so that this key can only access this API



Set up MySQL

4. Within the virtual machine, follow steps in <https://computingforgeeks.com/how-to-install-mysql-8-0-on-ubuntu-linux/> until you see that the version installed is 8.0.19. This is to update the MySQL in iss-vm

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```
$ apt policy mysql-server
mysql-server:
  Installed: 8.0.19-1debian10
  Candidate: 8.0.19-1debian10
  Version table:
 *** 8.0.19-1debian10 500
    500 http://repo.mysql.com/apt/debian buster/mysql-8.0 amd64 Pack
    100 /var/lib/dpkg/status
```

From the output, you can see that the version installed is 8.0.19.

You can start the application if stopped using:

```
sudo systemctl start mysql
```

Check status using:

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5. Open MySQL shell by double clicking on “Tool MySQL”

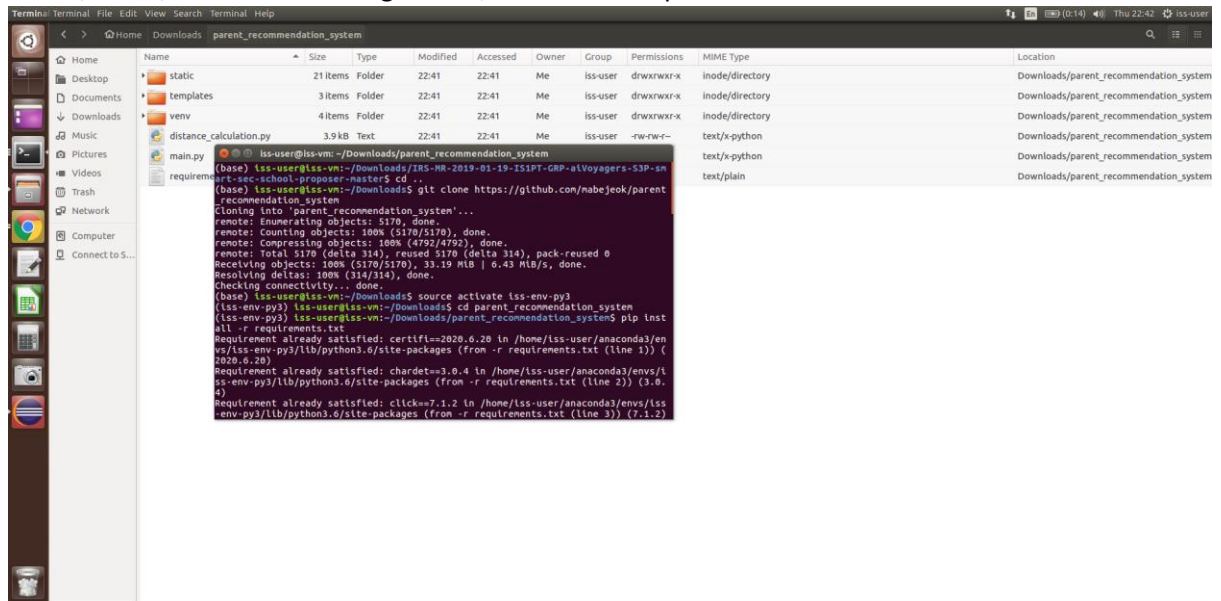


6. In MySQL shell, type in “create database cc_schema;”.
7. Next, type in “show databases;” to ensure cc_schema is created.
8. Download childcare_matcher.sql from <https://github.com/mabejeok/IRS-PM-2020-11-01-YSY5001-GRP1-ChildcareMatcher/tree/main/System%20Code> and put it in /home/iss-user
9. Then, go to a new terminal (command line, NOT the MySQL shell) and type in “mysql -u root -p cc_schema < /home/iss-user/Downloads/childcare_matcher.sql”
10. Now, go back to the MySQL shell and type in “use cc_schema;”. Then type in “show tables;” to ensure that these tables are in cc_schema.



Set up childcare recommendation system for parents

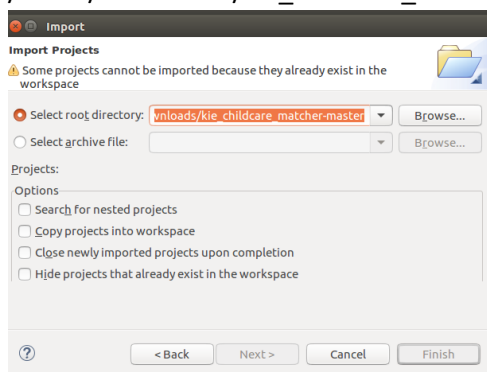
11. Go to /home/Downloads and right-click, then select “Open with Terminal”



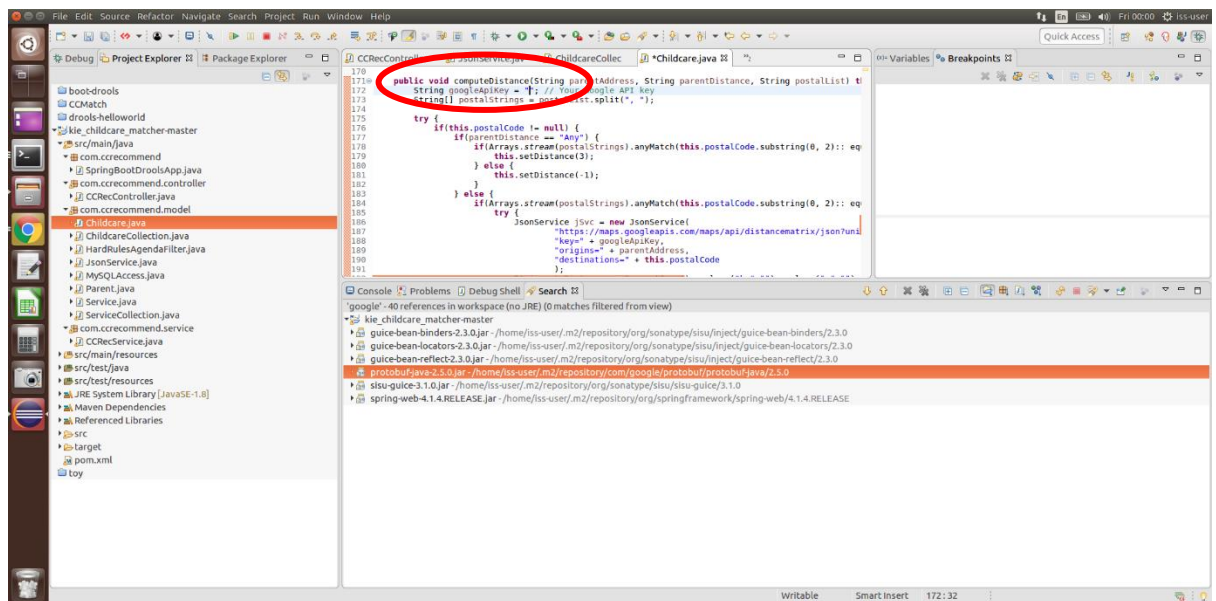
12. In the terminal window, type in “git clone https://github.com/mabejeok/parent_recommendation_system”
13. Then type “source activate lss-env-py3”
14. Then type “cd parent_recommendation_system”
15. Then type “pip install -r requirements.txt”
16. Lastly, type in “python main.py” and leave the server running.

Set up KIE system for childcare recommendation system

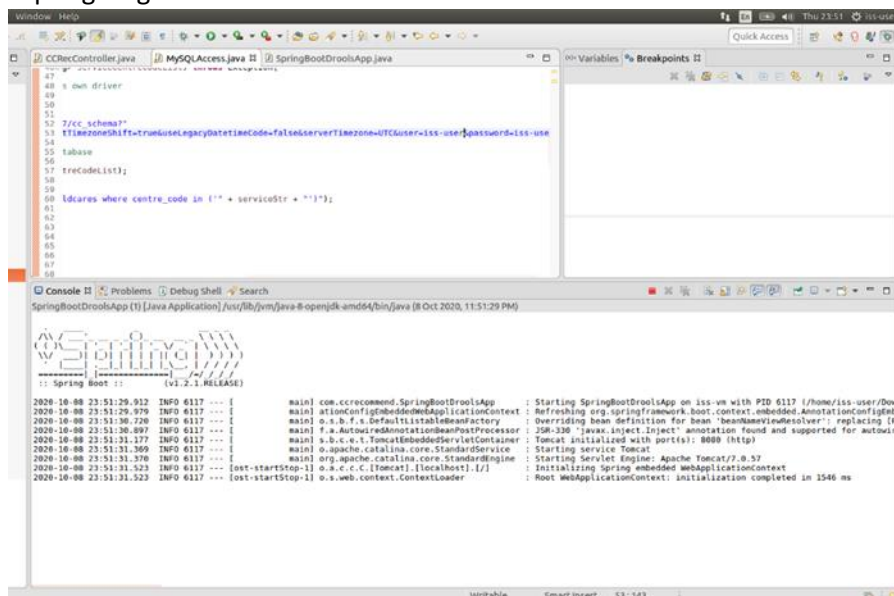
17. Download the zip file from https://github.com/mabejeok/kie_childcare_matcher
18. Extract the zipfile out to wherever you like. The extracted file name should be “kie_childcare_matcher-master”
19. Open Eclipse and click on File from the top bar > Import > General > Existing Projects into Workspace then Browse... for the extracted file. In the picture below, my file location is in /home/Downloads/kie_childcare_matcher-master. Then click “Finish” button.



20. Please add in your Google API key here in Childcare.java



21. Now, we run the project! Go to the Run from the top bar > Run and you should see the “Spring” logo in Console.



User guide for recommendation system

22. Choose a child birth date. The date is restricted to before today.
23. Choose an enrolment date. The date is restricted to after today.
24. The study level should auto-populate to a study level according to the birth and enrolment date. However, if the period between child birth date and enrolment date is bigger than 6, the study level will just revert to “Infant” because childcares cannot accommodated children more than 6 years old.

Child's birthdate
01/08/2020

Enrolment date
10/22/2022

Study level
Playgroup

Type of service
Full Day

Ideal childcare location
520101

Acceptable distance from childcare
< 3km

Fee range
Any

Child's type of citizenship
Singapore Citizen

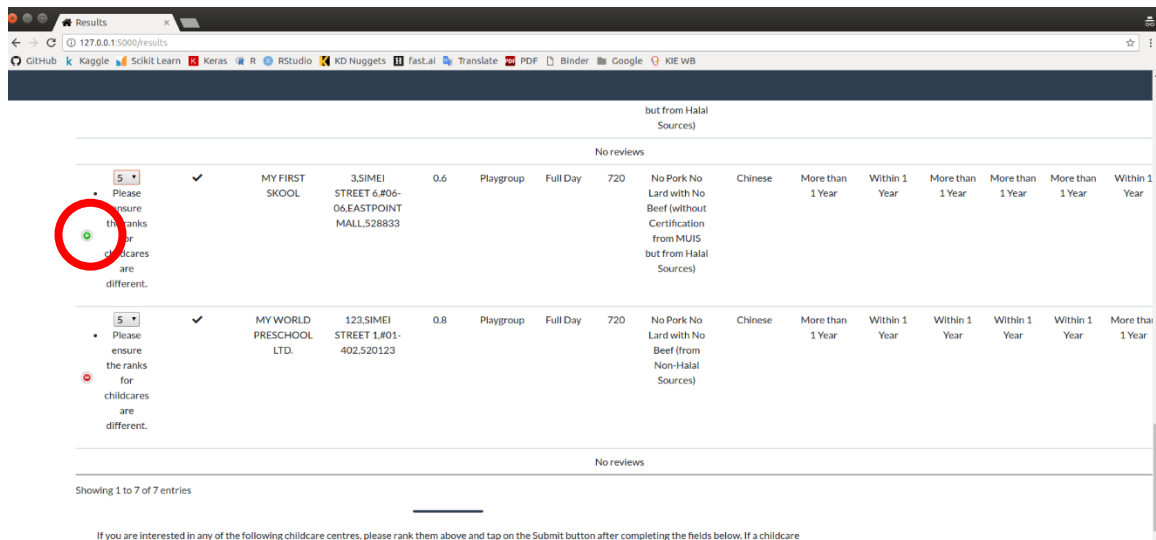
Second language

25. Choose whatever else you like and wait for it, look at the spinner at the tab (see image above).
26. If your requirements cannot be fully met, we will try to look for other childcares. A "x" will be shown. Else, you will see a tick for those that fully meets requirements. You can click on the column headers to sort the column.

Search:

Rank	Meets requirements	Centre Name	Centre Address	Distance from ideal location	Selected study level	Selected service type	Fee	Dietary Restrictions	Second Language
	x	Safari House Preschool Lakeside	10 JURONG LAKE LINK, #01-33, LAKE GRANDE, 648131	-1	Playgroup	Full Day	1450	No Pork No Lard with No Beef (without Certification from MUIS but from Halal Sources)	Chinese
								No reviews	
	x	BRILLIANT TOTS PTE. LTD.	610 JURONG WEST STREET 65, #01-534, 640610	-1	Playgroup	Full Day	850	No Pork No Lard with Beef (without Certification from MUIS but from Halal Sources)	na
								No reviews	
	x	PCF SPARKLETOTS PRESCHOOL @ HONG KAH NORTH BLK 345	345, BUKIT BATOK STREET 34, 650345	-1	Playgroup	Full Day	694.39	No Pork No Lard with No	Chinese

27. Add rank in the "Rank" column to the childcares you like. Please make sure the ranks are different from each other, if not an error will appear.

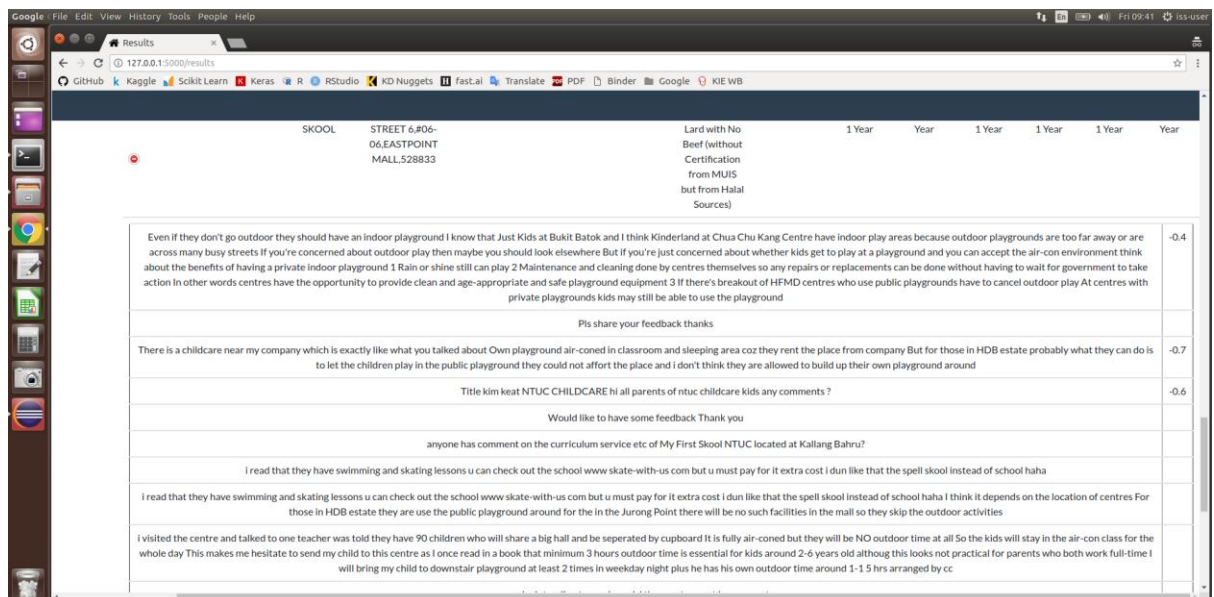


but from Halal Sources)														
No reviews														
5	✓	MY FIRST SKOOL	3.SIMEI STREET 6.#06-06.EASTPOINT MALL,528833	0.6	Playgroup	Full Day	720	No Pork No Lard with No Beef (without Certification from MUIS but from Halal Sources)	Chinese	More than 1 Year	Within 1 Year	More than 1 Year	More than 1 Year	Within 1 Year
5	✓	MY WORLD PRESCHOOL LTD.	123.SIMEI STREET 1.#01-402.520123	0.8	Playgroup	Full Day	720	No Pork No Lard with No Beef (from Non-Halal Sources)	Chinese	More than 1 Year	Within 1 Year	Within 1 Year	Within 1 Year	More than 1 Year

Showing 1 to 7 of 7 entries

If you are interested in any of the following childcare centres, please rank them above and tap on the Submit button after completing the fields below. If a childcare

28. For some entries, we managed to scrape reviews and it will show below the entry. For reviews that are answers to a main comment, we currently cannot get the sentiment value for it, for the others a number will appear which is the sentiment score. If you think the table is annoying, you can close it by clicking on the red “-” button, it will then change to green “+” button like above.



SKOOL	STREET 6.#06-06.EASTPOINT MALL,528833	Lard with No Beef (without Certification from MUIS but from Halal Sources)	1 Year	Year	1 Year	1 Year	1 Year	Year
<p>Even if they don't go outdoor they should have an indoor playground I know that Just Kids at Bukit Batok and I think Kinderland at Chua Chu Kang Centre have indoor play areas because outdoor playgrounds are too far away or are across many busy streets If you're concerned about outdoor play then maybe you should look elsewhere But if you're just concerned about whether kids get to play at a playground and you can accept the air-con environment think about the benefits of having a private indoor playground 1 Rain or shine still can play 2 Maintenance and cleaning done by centres themselves so any repairs or replacements can be done without having to wait for government to take action In other words centres have the opportunity to provide clean and age-appropriate and safe playground equipment 3 If there's breakout of HFMD centres who use public playgrounds have to cancel outdoor play At centres with private playgrounds kids may still be able to use the playground</p> <p>Pis share your feedback thanks</p> <p>There is a childcare near my company which is exactly like what you talked about Own playground air-coned in classroom and sleeping area coz they rent the place from company But for those in HDB estate probably what they can do is to let the children play in the public playground they could not afford the place and I don't think they are allowed to build up their own playground around</p> <p>Title kim keat NTUC CHILDCARE hi all parents of ntuc childcare kids any comments ?</p> <p>Would like to have some feedback Thank you</p> <p>anyone has comment on the curriculum service etc of My First Skool NTUC located at Kallang Bahru?</p> <p>I read that they have swimming and skating lessons u can check out the school www skate-with-us com but u must pay for it extra cost i dun like that the spell skool instead of school haha</p> <p>I read that they have swimming and skating lessons u can check out the school www skate-with-us com but u must pay for it extra cost i dun like that the spell skool instead of school haha I think it depends on the location of centres For those in HDB estate they are use the public playground around for the In the Jurong Point there will be no such facilities in the mall so they skip the outdoor activities</p> <p>I visited the centre and talked to one teacher was told they have 90 children who will share a big hall and be separated by cupboard It is fully air-coned but they will be NO outdoor time at all So the kids will stay in the air-con class for the whole day This makes me hesitate to send my child to this centre as I once read in a book that minimum 3 hours outdoor time is essential for kids around 2-6 years old although this looks not practical for parents who both work full-time I will bring my child to downstairs playground at least 2 times in weekday night plus he has his own outdoor time around 1-1.5 hrs arranged by cc</p>								

29. Now after we complete the form, we can submit our details.

Google Chrome browser window showing the 'Results' page of a childcare ranking application. The page displays a table of childcare centres with columns for name, address, rating, type, hours, and various attributes. Two entries are visible:

Child ID No.	Contact No.	Centre Code	Rank	Childcare Name	Address	Rating	Type	Hours	Attributes								
sgfsgd	gsvete	NT0555	5	MY FIRST SKOOL	3.SIMEI STREET 6.#06-06.EASTPOINT MALL.528833	0.6	Playgroup	Full Day	720	No Pork No Lard with No Beef (without Certification from MUIS but from Halal Sources)	Chinese	More than 1 Year	Within 1 Year	More than 1 Year	More than 1 Year	More than 1 Year	Within 1 Year
sgfsgd	gsvete	YM0100	3	MY WORLD PRESCHOOL LTD.	123.SIMEI STREET 1.#01-402.520123	0.8	Playgroup	Full Day	720	No Pork No Lard with No Beef (from Non-Halal Sources)	Chinese	More than 1 Year	Within 1 Year	Within 1 Year	Within 1 Year	Within 1 Year	More than 1 Year

Below the table, there is a message: "No reviews".

Showing 1 to 7 of 7 entries

If you are interested in any of the following childcare centres, please rank them above and tap on the Submit button after completing the fields below. If a childcare was in a rank position before, and you gave another childcare the same rank today, today's childcare will replace the previous childcare in the same rank position.

The childcare centres will contact you separately when a suitable vacancy arise. Please note that with submission, your contact details will be shared with the childcare centres.

Buttons: sgfsgd, gsvete, Submit

30. Tada! Check if your submission is correct.

Google Chrome browser window showing the 'PAST SUBMISSIONS' page of the same application. The page displays a table of past submissions with columns for Child ID No., Contact No., Centre Code, and Rank. Two entries are visible:

Child ID No.	Contact No.	Centre Code	Rank
sgfsgd	gsvete	NT0555	5
sgfsgd	gsvete	YM0100	3

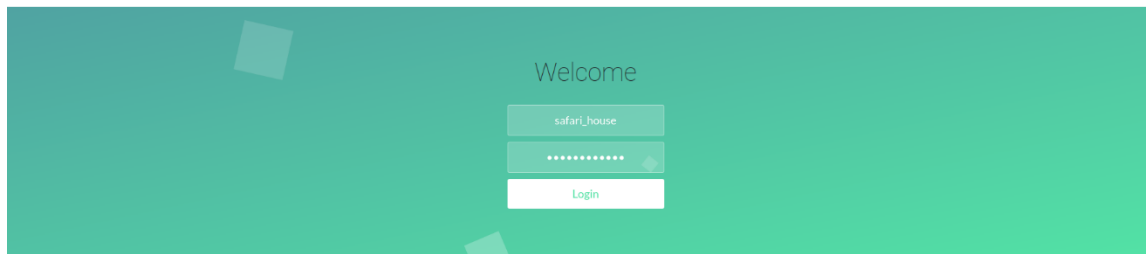
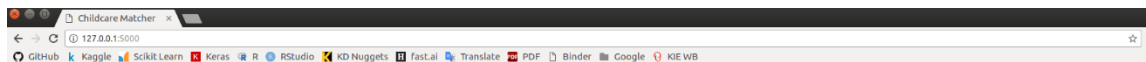
Showing 1 to 2 of 2 entries

Set up childcare matcher for childcare centres

1. Go to /home/Downloads and right-click, then select "Open with Terminal"
2. In the terminal window, type in "git clone https://github.com/mabejeok/childcare_matcher"
3. Then type "source activate iss-env-py3"
4. Then type "cd parent_recommendation_system"
5. Then type "pip install -r requirements.txt"
6. Lastly, type in "python app.py" and leave the server running.

User guide for childcare matcher

1. Sign in to childcare matcher with username "safari_house" and password "safari_house". This is a single childcare's account. If the credentials are wrong, an error will appear.



2. You will see the first rows without likelihood because these already have actions. You may see some rows with actions and likelihood, because those were predicted before action happened.

Choice ID	Child ID	Contact Details	Study Level	Enrolment Date	Registration Date	Likelihood	Action
1	Z2035907H	82345677	Playgroup	Oct-2020	01-Jan-2020		No Contact
2	Z6436144Z	25824958	Infant	Oct-2020	02-Jan-2020		Accept Offer
3	X5416515R	86363954	Infant	May-2020	03-Jan-2020		Accept Offer
4	V2105882R	63948254	Infant	Apr-2020	04-Jan-2020		Accept Offer
5	J7870499T	84523523	Infant	Mar-2020	05-Jan-2020		Accept Offer
6	55175848L	26545765	Infant	Feb-2020	06-Jan-2020		Accept Offer
7	X5956510V	325325436	Infant	Jun-2020	07-Jan-2020		Accept Offer
8	C1630587M	4636325	Infant	Oct-2020	08-Jan-2020		No Contact
9	O9254306C	63576457	Infant	May-2020	09-Jan-2020		No Contact
10	K1648165G	87906546	Infant	Apr-2020	10-Jan-2020		No Contact
11	G3913799N	65463795	Infant	Mar-2020	11-Jan-2020		No Contact

3. You can click on the columns to sort. Once you have the answer from the parent, “No Contact”, “Accept Offer” or “Reject Offer”, you can enter into the action column and submit for it to be committed to our database.