



Personal Career Manager Software Agent User Guide

Team Name: Team10

Alfred Tay Wenjie, Kenneth Goh Chia Wei, Tan Heng Han, Wang Zilong, Raymond Ng Boon Cheong

NUS-ISS Master of Technology in Intelligent Systems
ISY5001 Machine Reasoning and Reasoning Systems

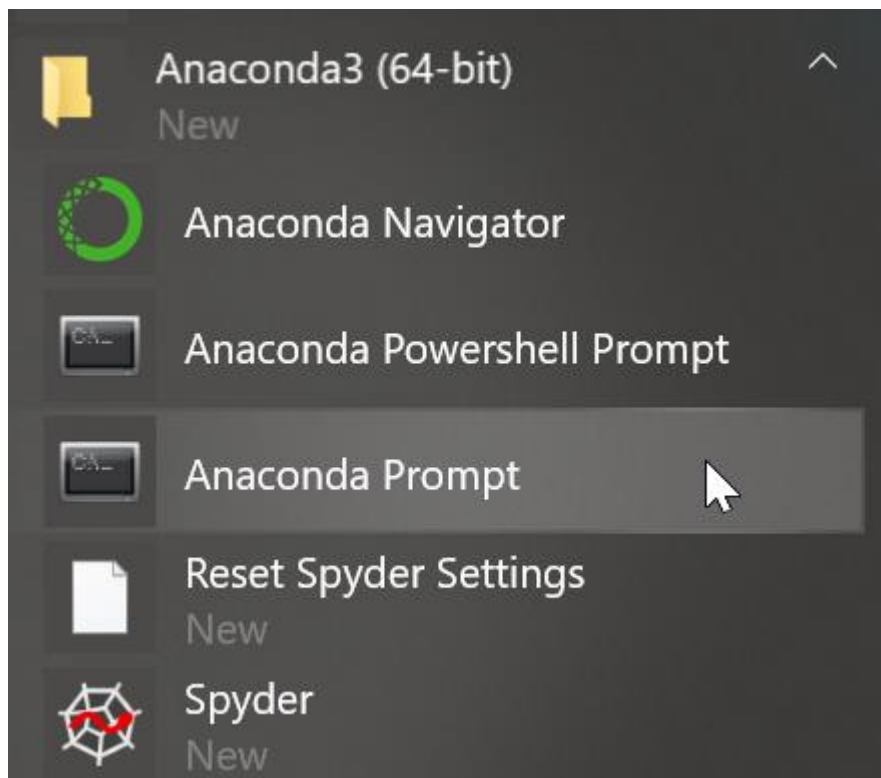
USER GUIDE

Setup:

Step 1) Clone or download zip from [https://github.com/raymondng76/IRS-MR-RS-2019-07-01-IS1PT-GRP-TeamName-Level-Up \(TODO\)](https://github.com/raymondng76/IRS-MR-RS-2019-07-01-IS1PT-GRP-TeamName-Level-Up (TODO))

Step 2) Install Anaconda from www.anaconda.org

Step 3) Launch Anaconda prompt from start menu (right click and run as administrator)



Step 4) From the Anaconda prompt console, enter the following command to add the conda-forge channel to conda.

```
conda config --append channels conda-forge
```

Step5) From the Anaconda prompt console, enter the following command to create a virtual environment.

```
conda create --name levelup python=3.6 django=2.2.4
```

```
Administrator: Anaconda Prompt

(base) C:\WINDOWS\system32>conda create --name levelup python=3.6 django=2.2.4
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: C:\ProgramData\Anaconda3\envs\levelup

added / updated specs:
- django=2.2.4
- python=3.6

The following NEW packages will be INSTALLED:

certifi                pkgs/main/win-64::certifi-2019.6.16-py36_1
conda-forge/win-64::django-2.2.4-py36_0
pip                    pkgs/main/win-64::pip-19.2.2-py36_0
python                 pkgs/main/win-64::python-3.6.9-h5500b2f_0
pytz                   pkgs/main/noarch::pytz-2019.2-py_0
setuptools              pkgs/main/win-64::setuptools-41.0.1-py36_0
sqlite                 pkgs/main/win-64::sqlite-3.29.0-he774522_0
sqlparse                pkgs/main/noarch::sqlparse-0.3.0-py_0
vc                      pkgs/main/win-64::vc-14.1-h0510ff6_4
vs2015_runtime          pkgs/main/win-64::vs2015_runtime-14.15.26706-h3a45250_4
wheel                  pkgs/main/win-64::wheel-0.33.4-py36_0
wincertstore            pkgs/main/win-64::winertstore-0.2-py36h7fe50ca_0

Proceed ([y]/n)? y
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#     $ conda activate levelup
#
# To deactivate an active environment, use
#
#     $ conda deactivate
#

(base) C:\WINDOWS\system32>
```

Step 6) Enter the following command to activate the newly created environment.

conda activate levelup

Step 7) Install **Experta** package with the following command.

pip install experta==1.9.1

```
Administrator: Anaconda Prompt - "C:\ProgramData\Anaconda3\condabin\conda.bat" activate levelup

(base) C:\WINDOWS\system32>conda activate levelup
(levelup) C:\WINDOWS\system32>pip install experta==1.9.1
Collecting experta==1.9.1
  Using cached https://files.pythonhosted.org/packages/f2/21/18207f6f6141c1182db30d177b1757b4dc502f3f201fe899f2465d240374/experta-1.9.1-py3-none-any.whl
Collecting frozendict==1.2 (from experta==1.9.1)
Collecting schema==0.6.7 (from experta==1.9.1)
  Using cached https://files.pythonhosted.org/packages/5d/42/32c059aa876eb16521a292e634d18f25408b2441862ff823f59af273d720/schema-0.6.7-py2.py3-none-any.whl
Installing collected packages: frozendict, schema, experta
Successfully installed experta-1.9.1 frozendict-1.2 schema-0.6.7
(levelup) C:\WINDOWS\system32>
```

Step 8) Install Django-Widget-Tweaks package with the following command.

pip install Django-widget-tweaks

Step 9) Navigate to the **Level_Up** folder of the cloned Github project.

Step 10) Enter the following command to start the Django server.

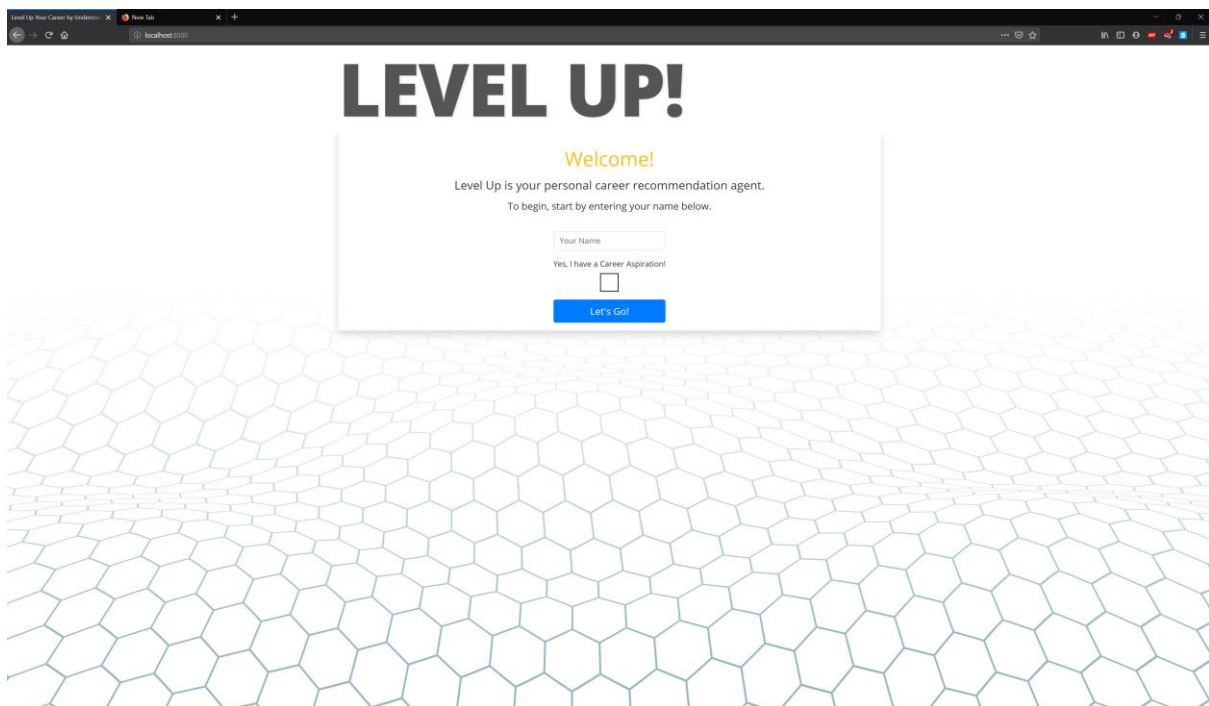
python manage.py runserver

```
Anaconda Prompt - "C:\ProgramData\Anaconda3\condabin\conda.bat" activate levelup - python manage.py runserver

(levelup) D:\Workspace\GitHub\IRS-CS-2019-07-29-ISIFT-GRP-TeamName-LevelUp\SystemCode\Level_Up_Chatbot>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
August 24, 2019 - 11:00:33
Django version 2.2.4, using settings 'Level_Up.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

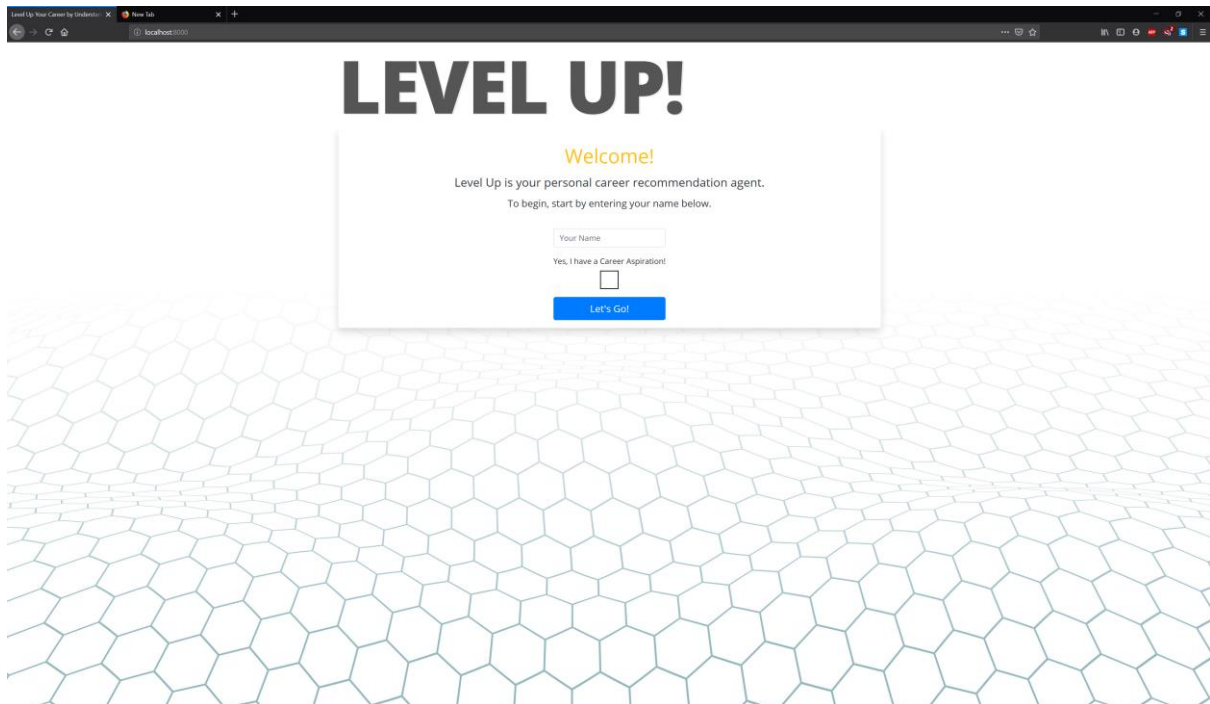
Step 11) Open any web browser and navigate to <http://localhost:8000> to visit the project home page.



Walkthrough

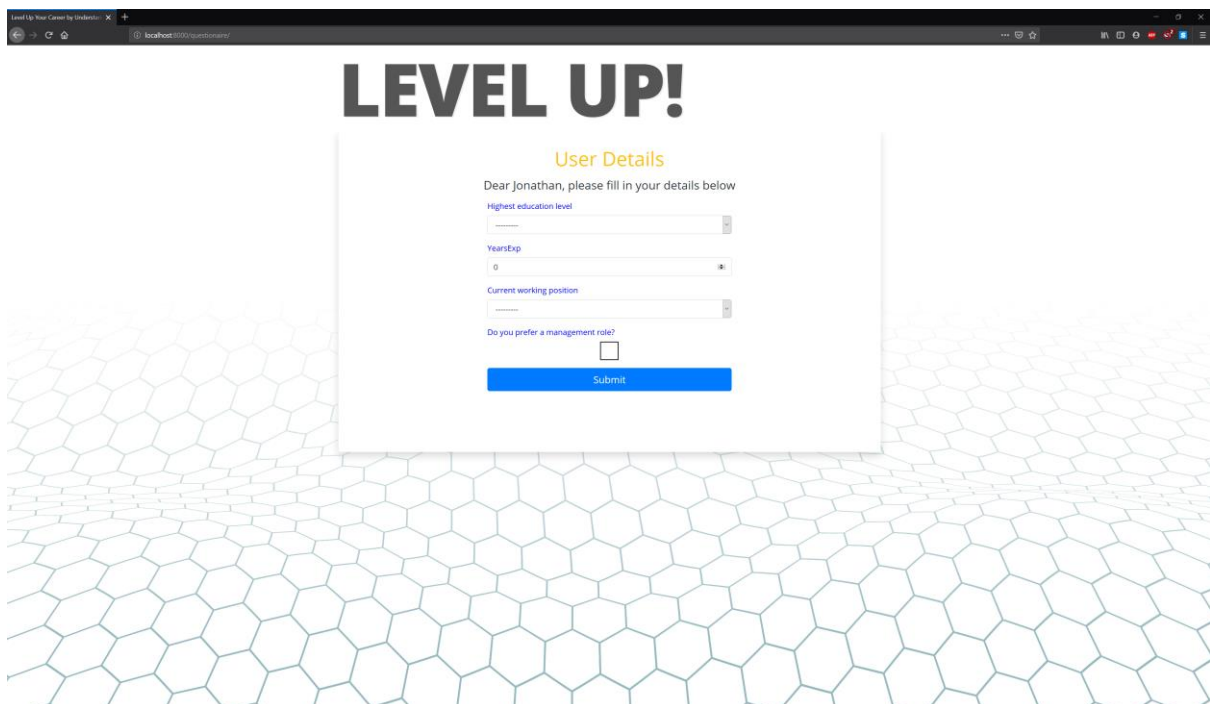
Workflow without Career Aspiration

- 1) Enter your name in the textbox provided and click the 'Let's Go!' button



The screenshot shows a web browser window with the URL 'localhost:5500'. The page has a white background with a large, bold, black 'LEVEL UP!' title at the top. Below the title, there is a white rectangular box containing the following text: 'Welcome!' in orange, 'Level Up is your personal career recommendation agent.' in black, and 'To begin, start by entering your name below.' in black. Below this text is a text input field labeled 'Your Name', a checkbox labeled 'Yes, I have a Career Aspiration:', and a blue button labeled 'Let's Go!'.

- 2) Select education level, current working position and enter your years of working experience. Check the 'Prefer a management role' checkbox per your preference. Click the 'Submit' button once done.



The screenshot shows the same web browser window, but the page has loaded the 'User Details' form. The title 'LEVEL UP!' remains at the top. Below it, the text 'User Details' is in orange. Below that, it says 'Dear Jonathan, please fill in your details below' in black. The form contains four input fields: 'Highest education level', 'YearsExp', and 'Current working position', each with a dropdown arrow. Below these is a checkbox labeled 'Do you prefer a management role?'. At the bottom of the form is a blue button labeled 'Submit'.

- 3) Fill in your answers for the next two pages (10 questions per page) and click the 'Submit' button once you are done. Please note that all questions must be answered in order to progress to the next page.

LEVEL UP!

Questionnaire - Part 1

Dear Jonathan, please complete the questionnaire below:
(10 of 20)

You feel it's worse to be more

In friendships, you'd rather have

For everyday work, you'd rather

When talking to strangers, you speak

When with other people, you

You take more pride in your

You're more interested in

You prefer to live life more

You do routine tasks

Common sense is more of a

Submit

LEVEL UP!

Questionnaire - Part 2

Dear Jonathan, please complete the questionnaire below:
(20 of 20)

You're more influenced by your

You judge others by

In dealing with others, you're more

In making decisions, what's more comfortable

You'd rather give someone feedback based on

When you make choice, is it

What's worse, having projects

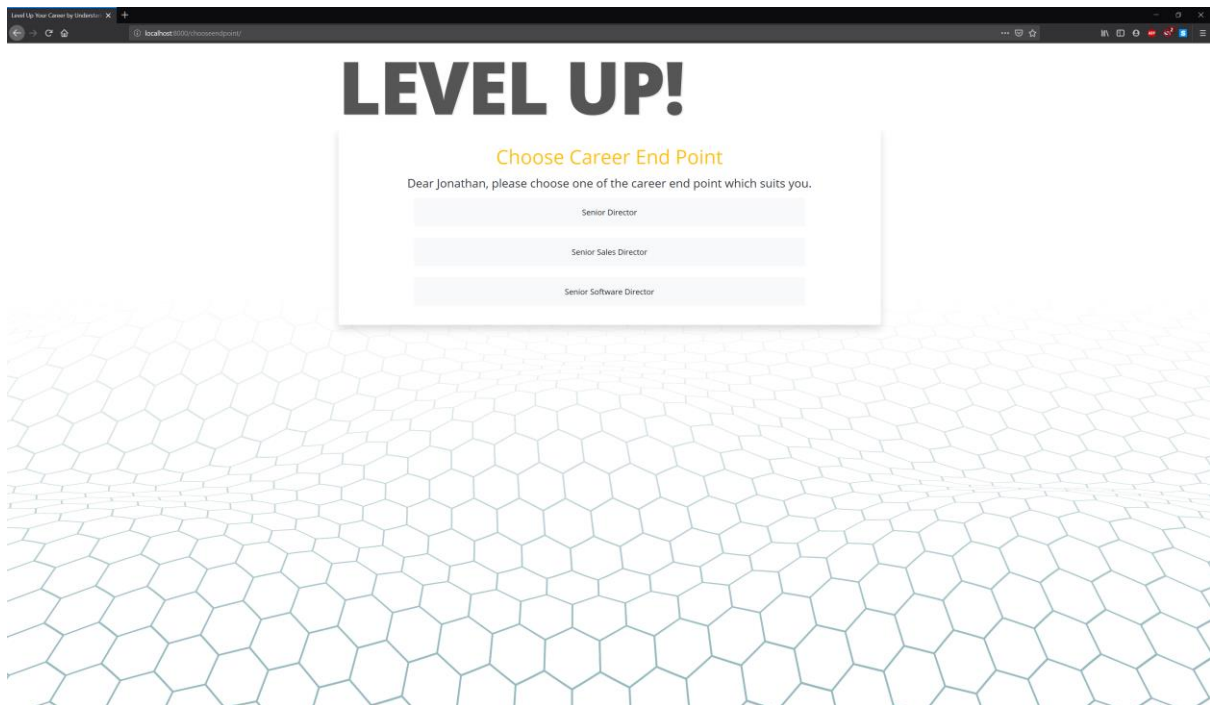
For events, you prefer

When shopping, you get more pleasure from

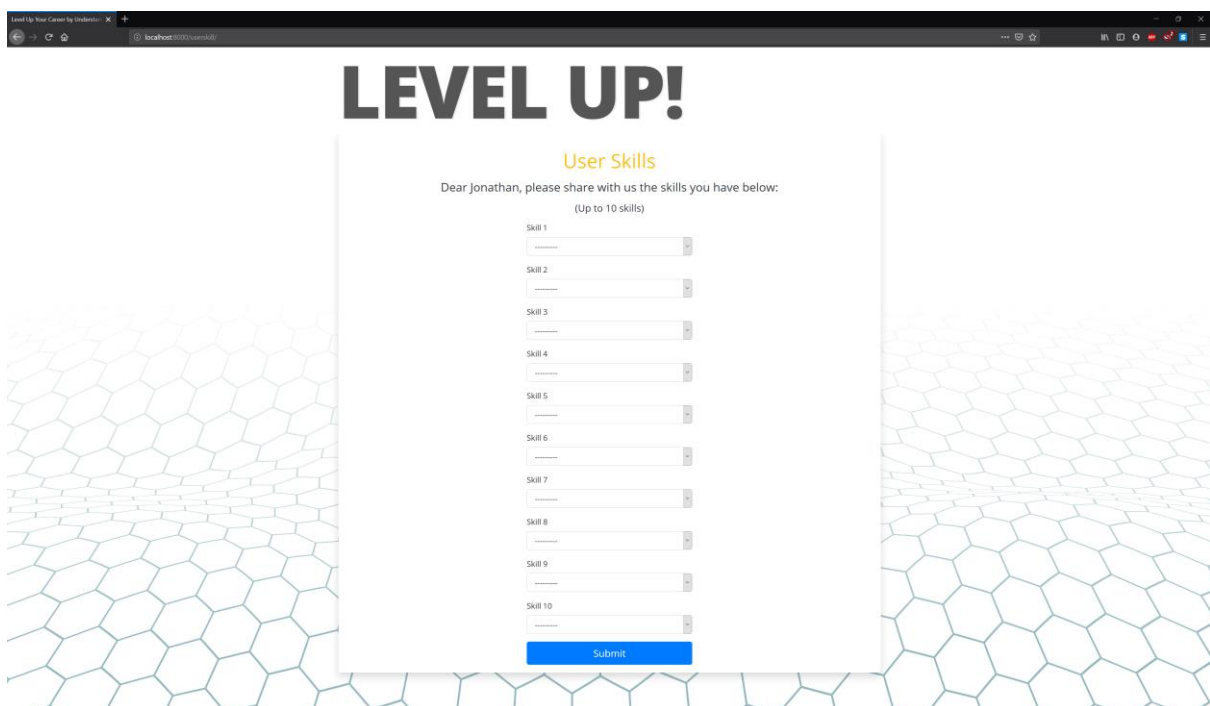
You prefer statements to be

Submit

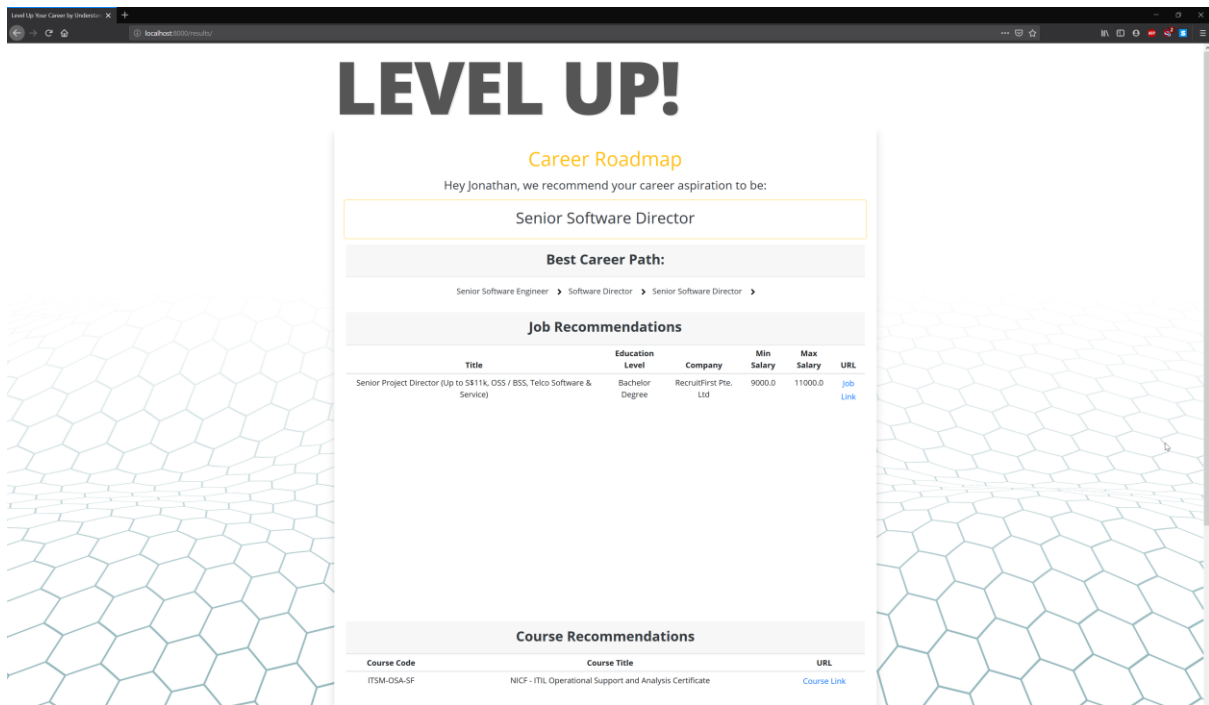
- 4) After submitting all previous questions, 3 possible career end points will be shown, click on the role you think you are most suited to continue.



5) Next fill in your skill sets (up to 10 skills) and click the 'Submit' button.

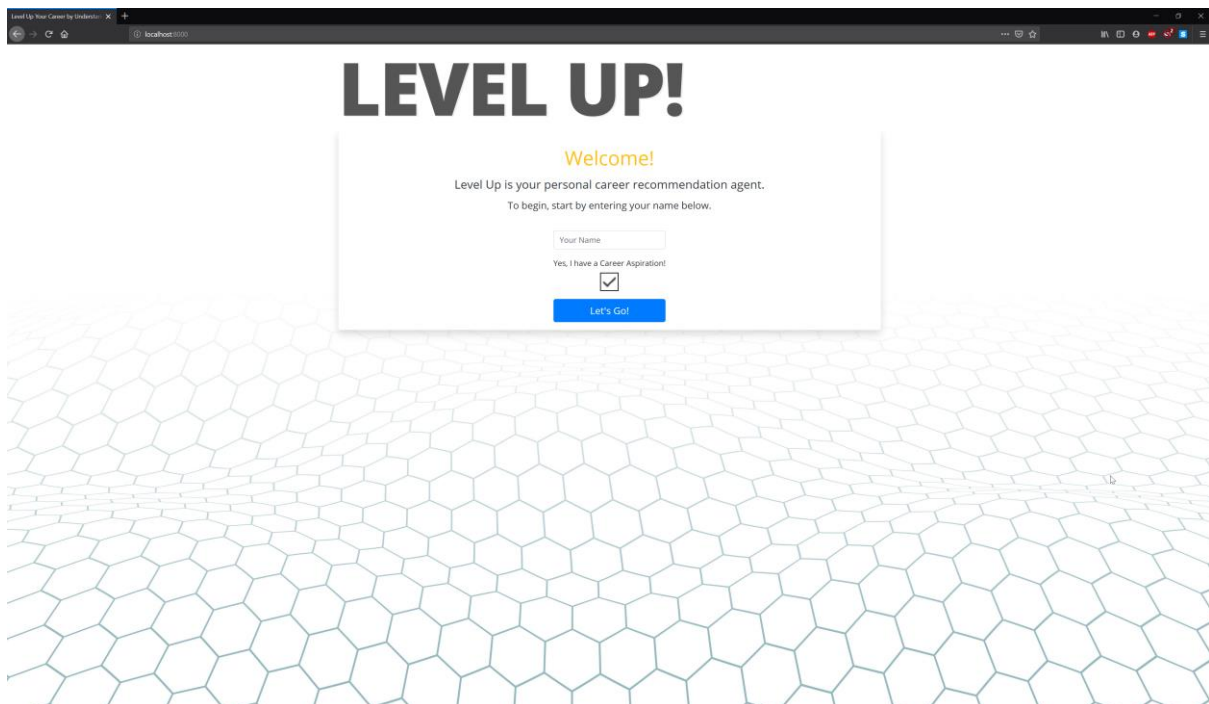


6) The career roadmap will now be shown, showing the best career path, job as well as course recommendations. Click on the respective job and course link to view their respective website.



Workflow with Career Aspiration

- 1) Enter your name in the textbox provided and check the 'Yes, I have a Career Aspiration!' checkbox and click the 'Let's Go!' button



- 2) Select education level, current working position and enter your years of working experience. Check the 'Prefer a management role' checkbox per your preference. Click the 'Submit' button once done.

The screenshot shows a web browser window with the title 'Level Up Your Career by Unilever'. The URL bar shows 'localhost:8000/questionary/'. The main heading is 'LEVEL UP!' in large, bold, black letters. Below it, the section is titled 'User Details' in orange. The text 'Dear Jonathan, please fill in your details below' is displayed. The form contains the following fields: 'Highest education level' (a dropdown menu), 'YearsExp' (a dropdown menu with '0' selected), 'Current working position' (a dropdown menu), and 'Do you prefer a management role?' (a checkbox). A blue 'Submit' button is at the bottom of the form. The background features a white hexagonal pattern on a light blue gradient.

3) Select your desired career aspiration and click on the 'Submit' button once done.

The screenshot shows a web browser window with the title 'Level Up Your Career by Unilever'. The URL bar shows 'localhost:8000/usercareergoal/'. The main heading is 'LEVEL UP!' in large, bold, black letters. Below it, the section is titled 'Career Goal' in orange. The text 'Dear Jonathan, please select your aspired career goal below' is displayed. The form contains a single field: 'Your aspired career goal' (a dropdown menu). A blue 'Submit' button is at the bottom of the form. The background features a white hexagonal pattern on a light blue gradient.

4) Next fill in your skill sets (up to 10 skills) and click the 'Submit' button.

LEVEL UP!

User Skills

Dear Jonathan, please share with us the skills you have below:
(Up to 10 skills)

Skill 1

Skill 2

Skill 3

Skill 4

Skill 5

Skill 6

Skill 7

Skill 8

Skill 9

Skill 10

[Submit](#)

- 5) The career roadmap will now be shown, showing the best career path, job as well as course recommendations. Click on the respective job and course link to view their respective website.

LEVEL UP!

Career Roadmap

Hey Jonathan, we recommend your career aspiration to be:

President

Best Career Path:

Senior Software Engineer > Senior Analyst > Manager > President >

Job Recommendations

| Title | Education Level | Company | Min Salary | Max Salary | URL |
|---|-----------------|-----------------------------------|------------|------------|--------------------------|
| Treasury Analyst | Bachelor Degree | Pure Search International Pte Ltd | 4500.0 | 6000.0 | Job Link |
| Logistics Analyst (MNC / Up to \$4,500) | Bachelor Degree | Stafflink Services Pte Ltd | 3500.0 | 4500.0 | Job Link |

Course Recommendations

| Course Code | Course Title | URL |
|-------------|--|-----------------------------|
| ITSM-OSA-SF | NICF - ITIL Operational Support and Analysis Certificate | Course Link |