



# Personal Career Manager Software Agent User Guide

Team Name: Team10

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

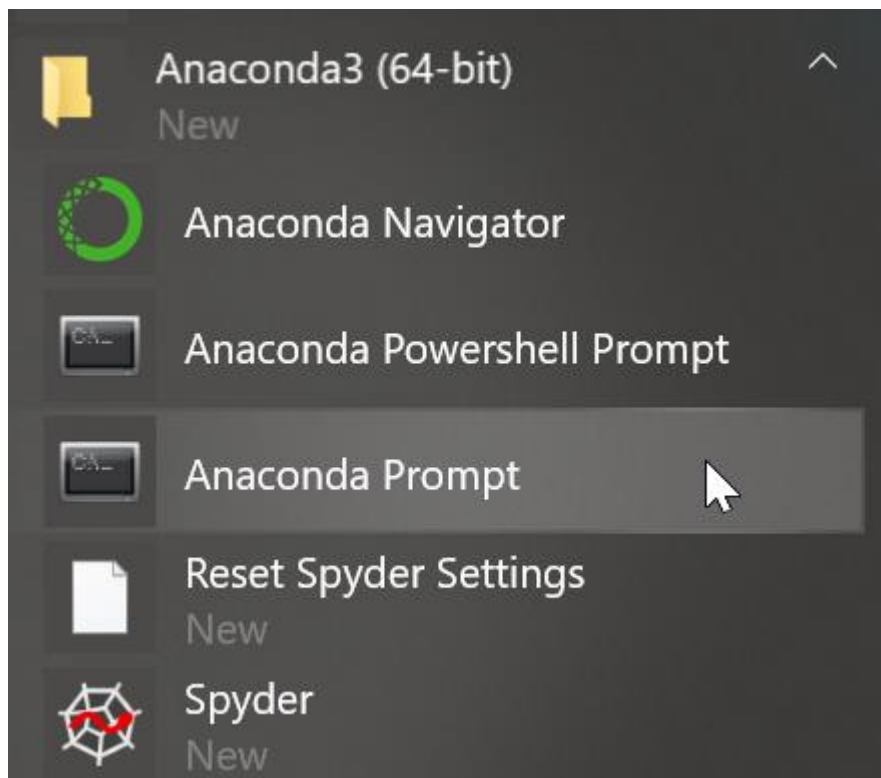
## USER GUIDE

Setup:

Step 1) Clone or download zip from <https://github.com/raymondng76/IRS-MR-RS-2019-07-01-IS1FT-GRP-Team10-LevelUp>

Step 2) Install Anaconda from [www.anaconda.org](http://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/exp
  rta-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/sche
  ma-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.

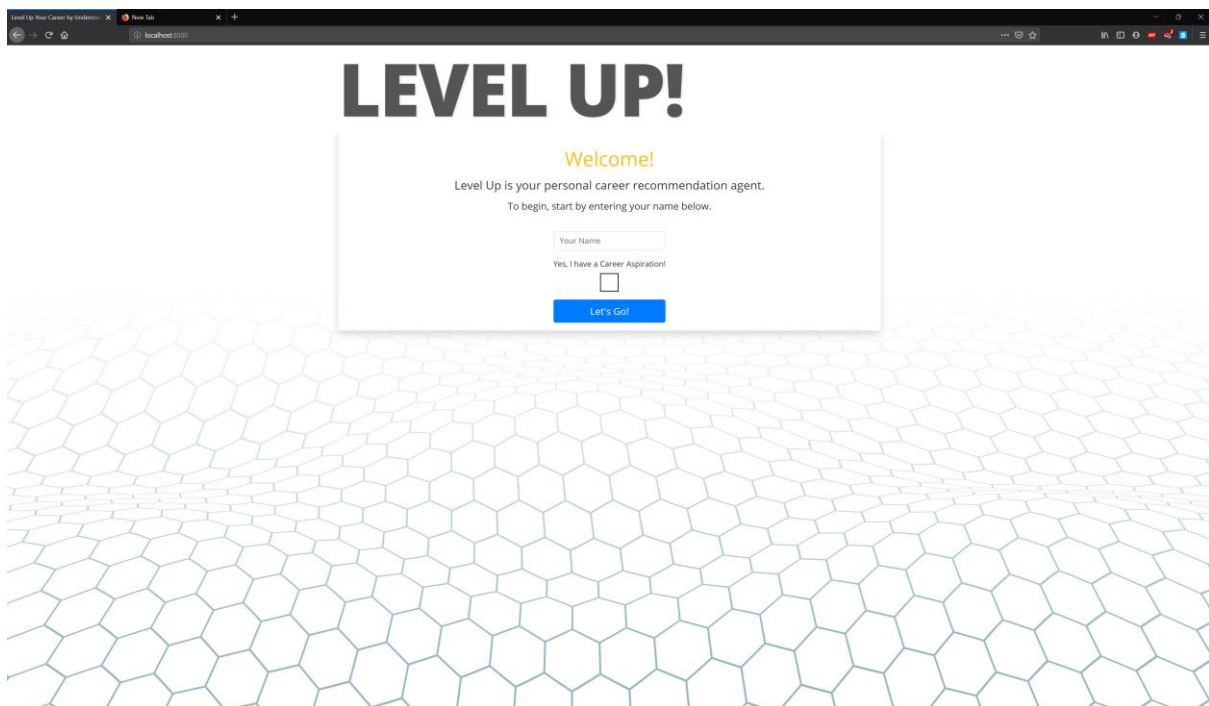
**python manage.py runserver**

```
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.
```

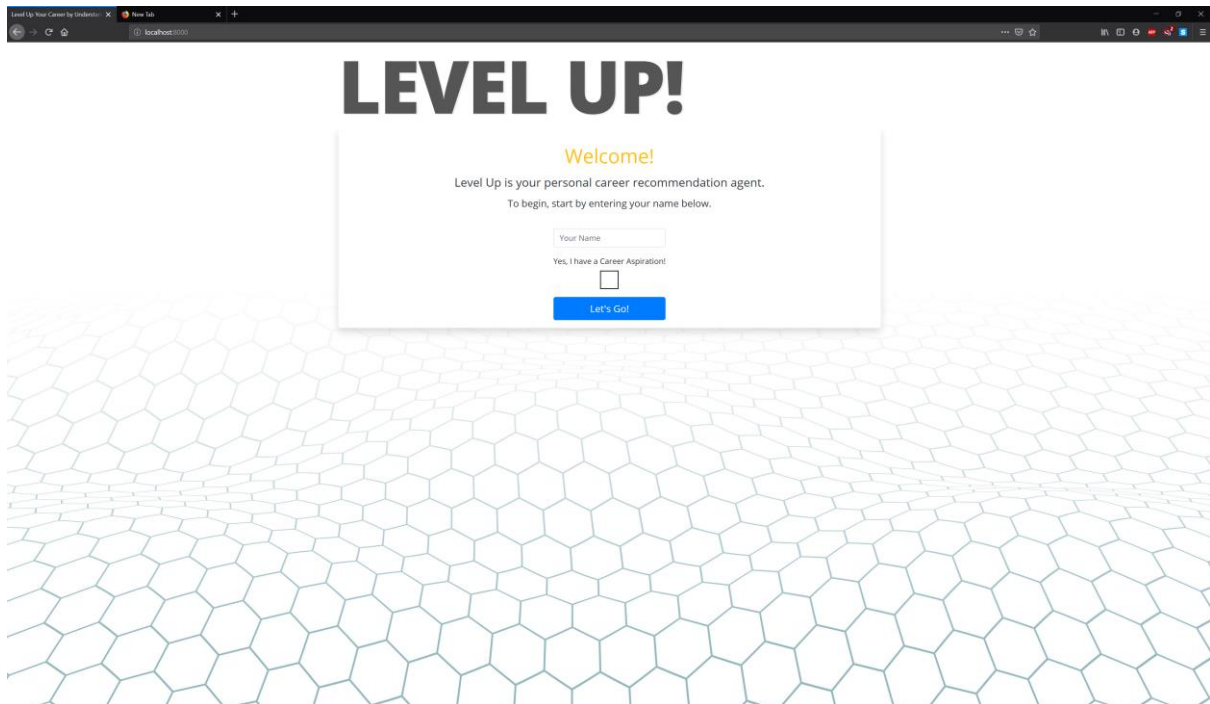
Step 11) Open any web browser and navigate to <http://localhost:8000> to visit the project home page.



## Walkthrough

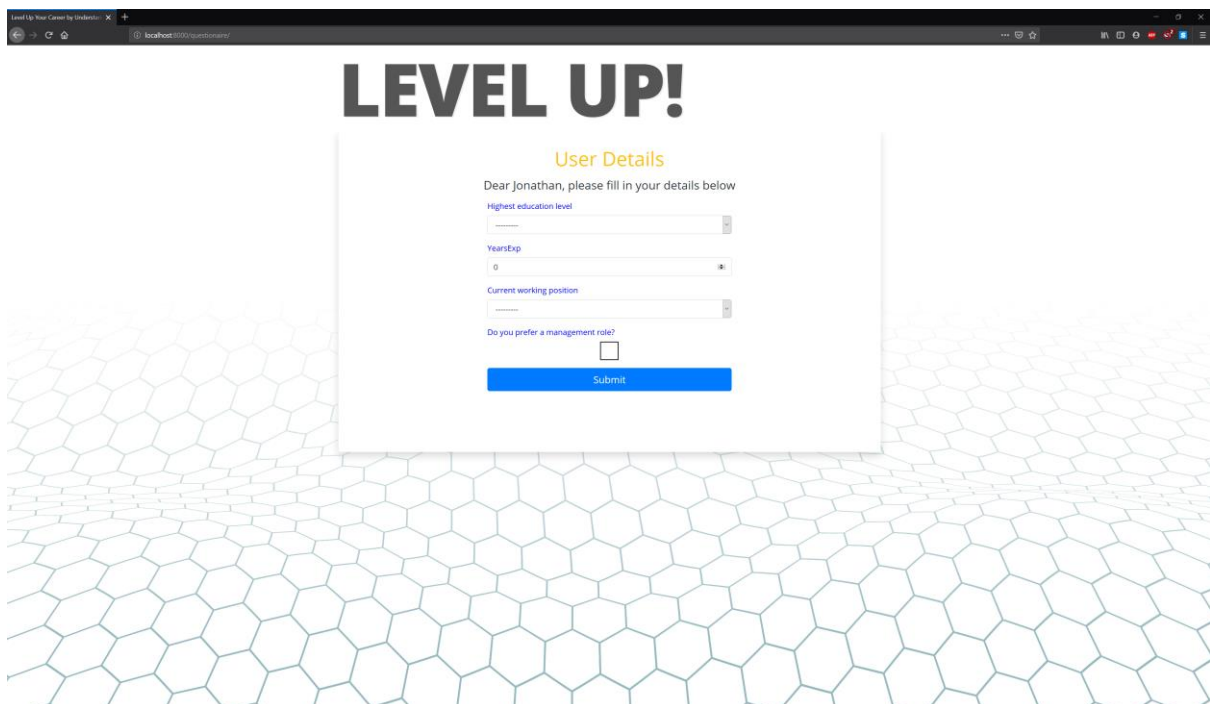
### Workflow without Career Aspiration

- 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:5000'. The page has a large 'LEVEL UP!' title at the top. Below it, a white box contains the text 'Welcome!' in yellow, followed by 'Level Up is your personal career recommendation agent. To begin, start by entering your name below.' There is a text input field labeled 'Your Name', a checkbox labeled 'Yes, I have a Career Aspiration:' which is currently unchecked, 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.



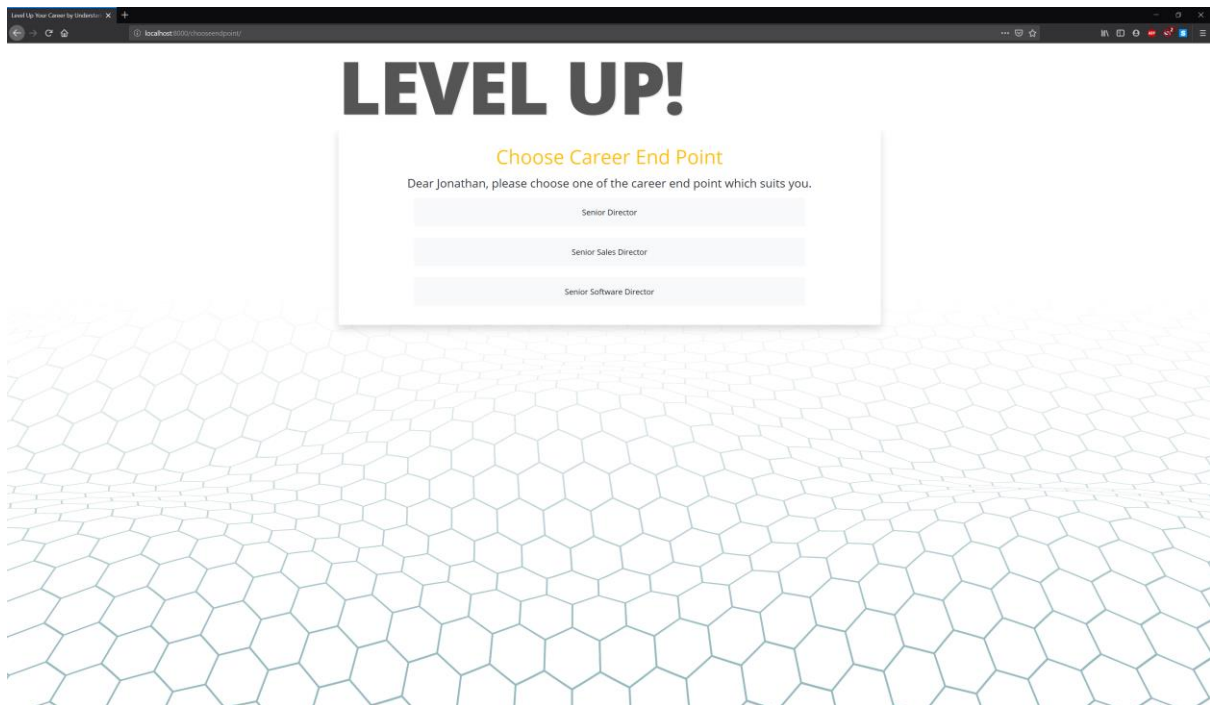
The screenshot shows the same web browser window, but the page has advanced to the 'User Details' section. The title 'LEVEL UP!' is still at the top. The white box now contains the text 'User Details' in yellow, followed by 'Dear Jonathan, please fill in your details below'. There are three dropdown menus: 'Highest education level', 'YearsExp', and 'Current working position'. Below these is a checkbox labeled 'Do you prefer a management role?' which is currently unchecked. At the bottom of the box 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.

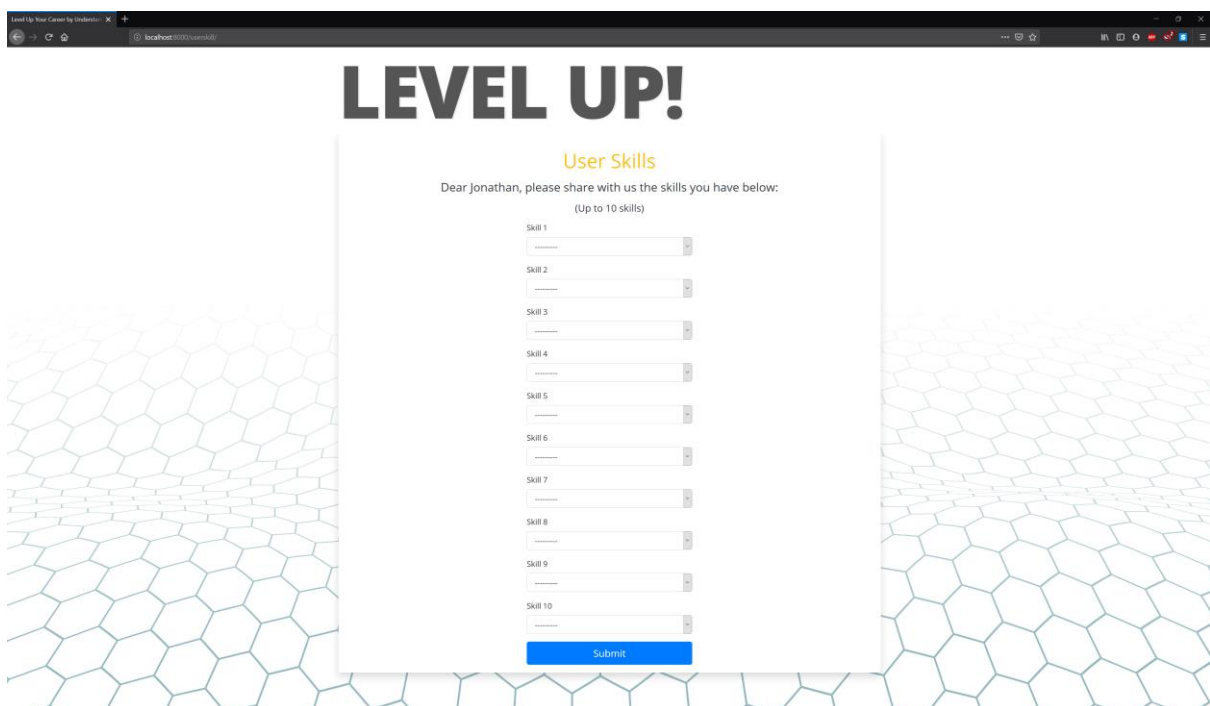
The screenshot shows a web browser window with the URL 'leahat.100/personalityquestionnaire/'. The page has a white background with a blue hexagonal pattern on the sides. At the top, the text 'LEVEL UP!' is displayed in large, bold, black letters. Below it, the title 'Questionnaire - Part 1' is shown in orange. The instructions read: 'Dear Jonathan, please complete the questionnaire below: (10 of 20)'. There are ten questions, each with a dropdown menu for the answer. The questions are: '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', and 'Common sense is more of a'. A blue 'Submit' button is at the bottom.

The screenshot shows a web browser window with the URL 'leahat.100/personalityquestionnaire/'. The page has a white background with a blue hexagonal pattern on the sides. At the top, the text 'LEVEL UP!' is displayed in large, bold, black letters. Below it, the title 'Questionnaire - Part 2' is shown in orange. The instructions read: 'Dear Jonathan, please complete the questionnaire below: (20 of 20)'. There are ten questions, each with a dropdown menu for the answer. The questions are: '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', and 'You prefer statements to be'. A blue 'Submit' button is at the bottom.

- 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.

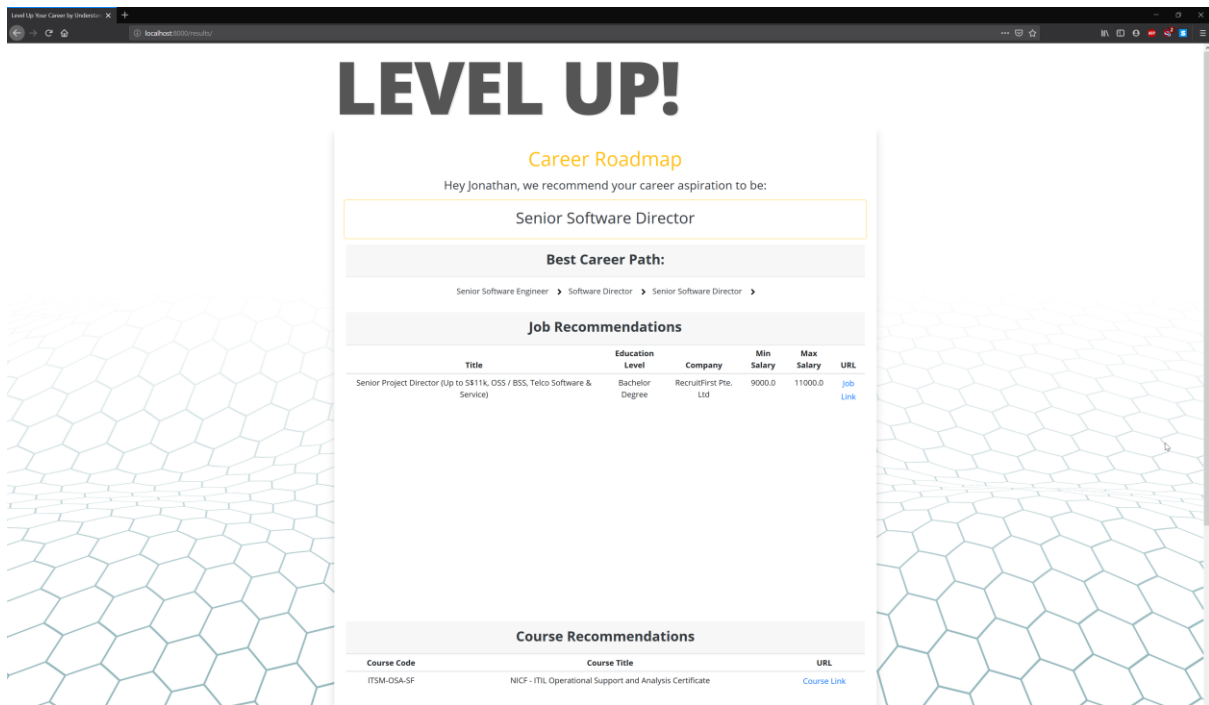


5) Next fill in your skill sets (up to 10 skills) and click the 'Submit' button.



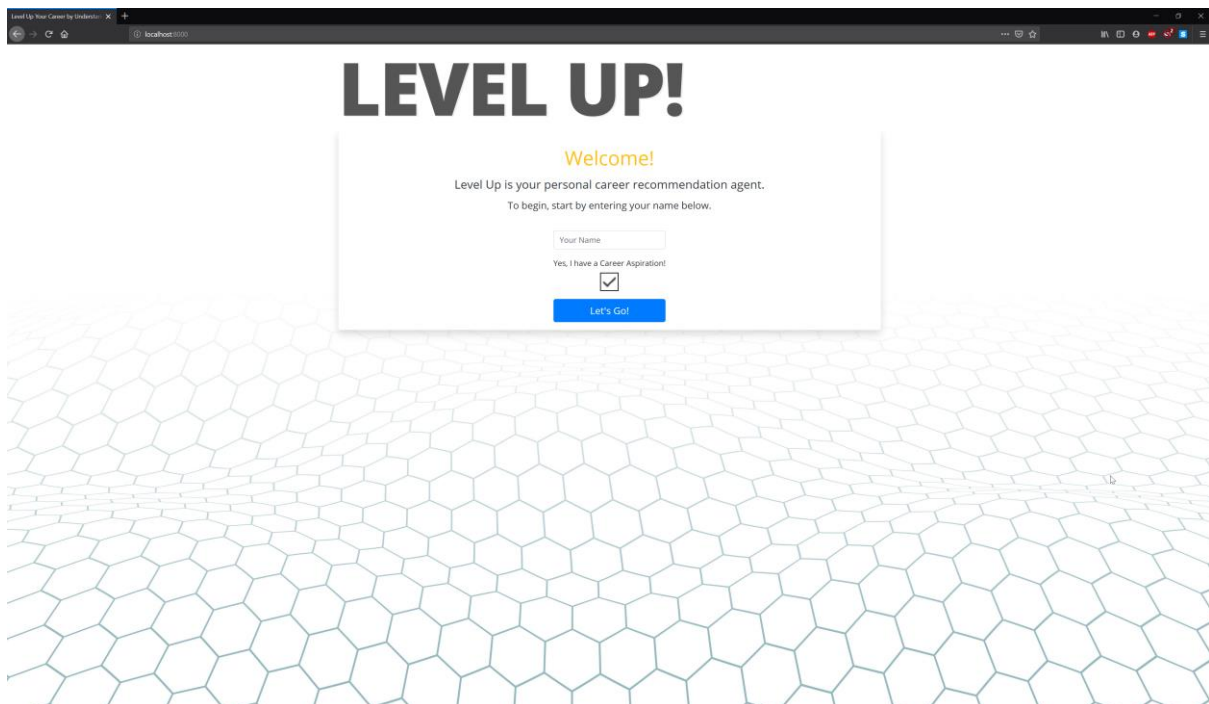
6) The career roadmap will now be shown, showing the best career path, job as well as course recommendations. Click on the respective job and course link to view their respective website.





## 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 is 'localhost:8000/questionary/'. The page features a large 'LEVEL UP!' heading. Below it, a white card titled 'User Details' contains the text 'Dear Jonathan, please fill in your details below'. The form includes three dropdown menus for 'Highest education level', 'YearsExp', and 'Current working position'. There is a checkbox for 'Do you prefer a management role?' and a blue 'Submit' button at the bottom. The background is a light blue hexagonal pattern.

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 is 'localhost:8000/user/careergoal/'. The page features a large 'LEVEL UP!' heading. Below it, a white card titled 'Career Goal' contains the text 'Dear Jonathan, please select your aspired career goal below'. The form includes a dropdown menu for 'Your aspired career goal' and a blue 'Submit' button at the bottom. The background is a light blue hexagonal pattern.

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	<a href="#">Job Link</a>
Logistics Analyst (MNC / Up to \$4,500)	Bachelor Degree	Stafflink Services Pte Ltd	3500.0	4500.0	<a href="#">Job Link</a>

**Course Recommendations**

Course Code	Course Title	URL
ITSM-OSA-SF	NICF - ITIL Operational Support and Analysis Certificate	<a href="#">Course Link</a>