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

Contents

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

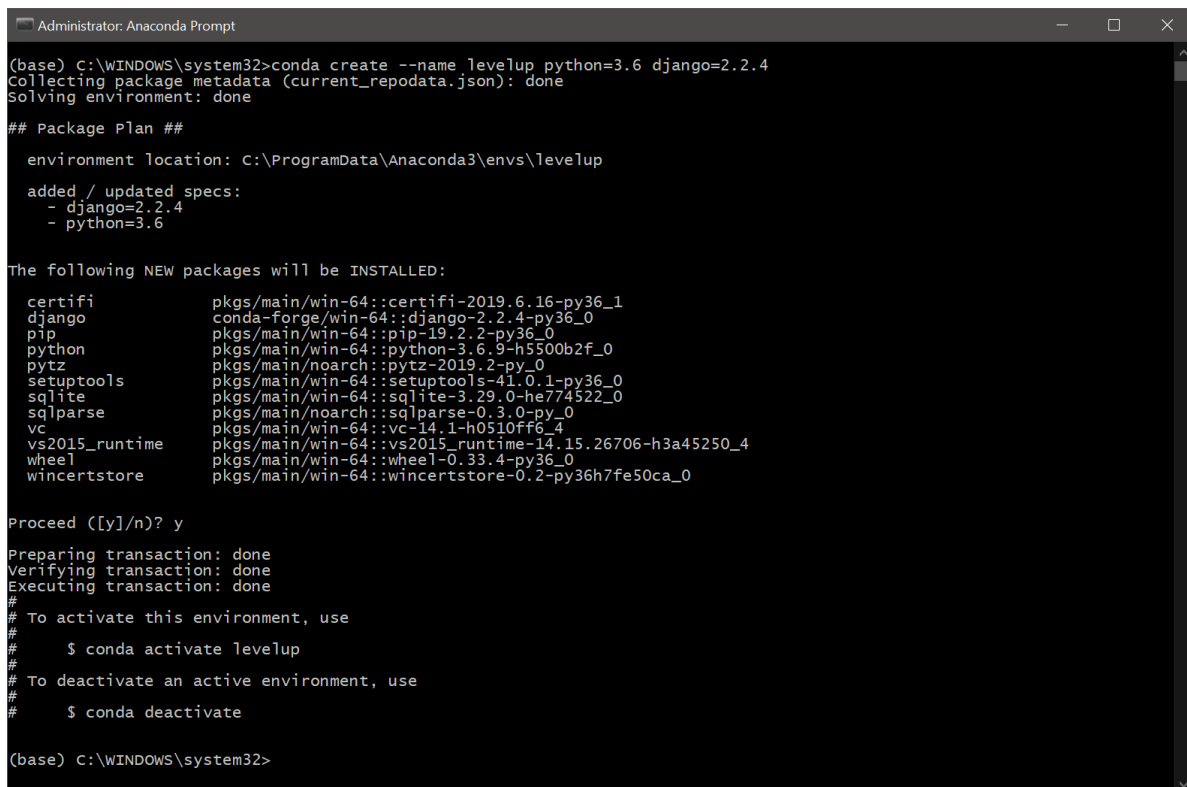Step 3) Launch Anaconda prompt from start menu (right click and run as administrator)
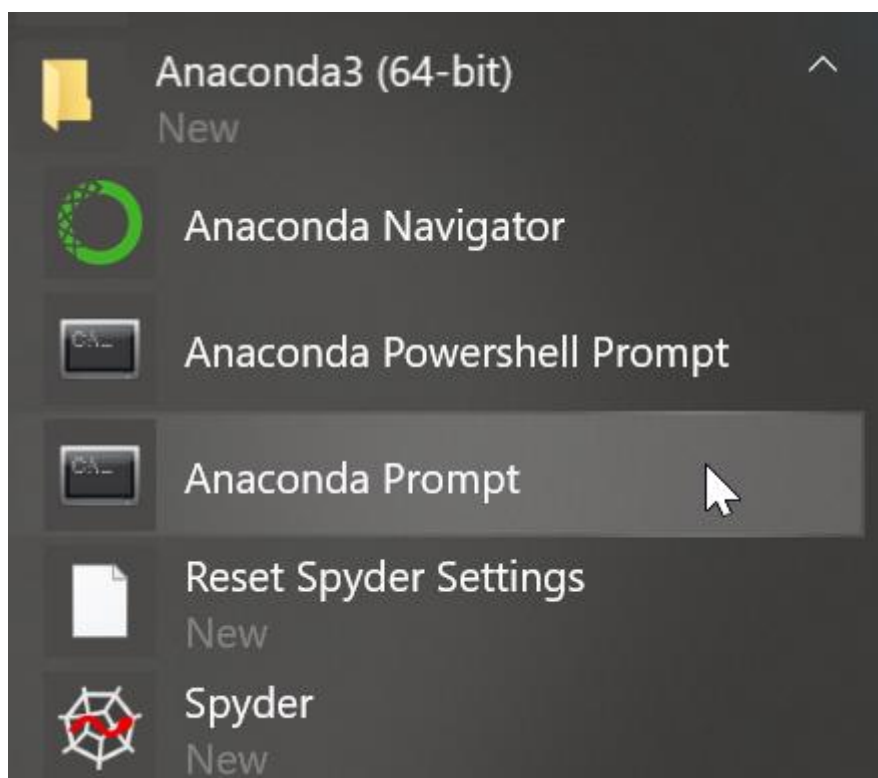
Step 4) From the Anaconda prompt console, enter the following command to add the conda-forge channel to conda.

```
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
  django            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::wincertstore-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>
```
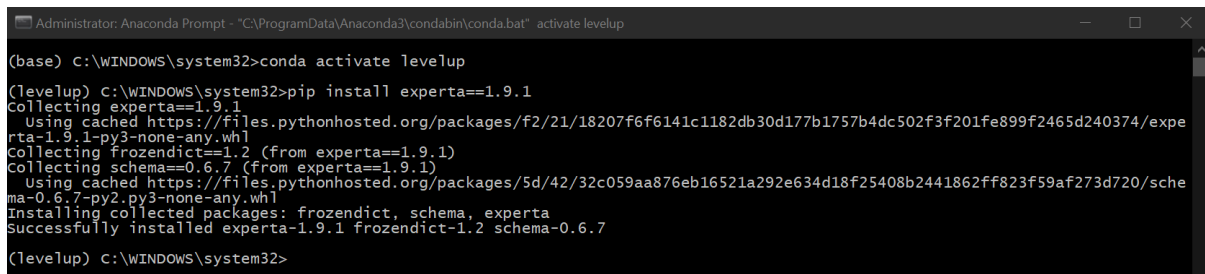
Step 6) Enter the following command to activate the newly created environment.

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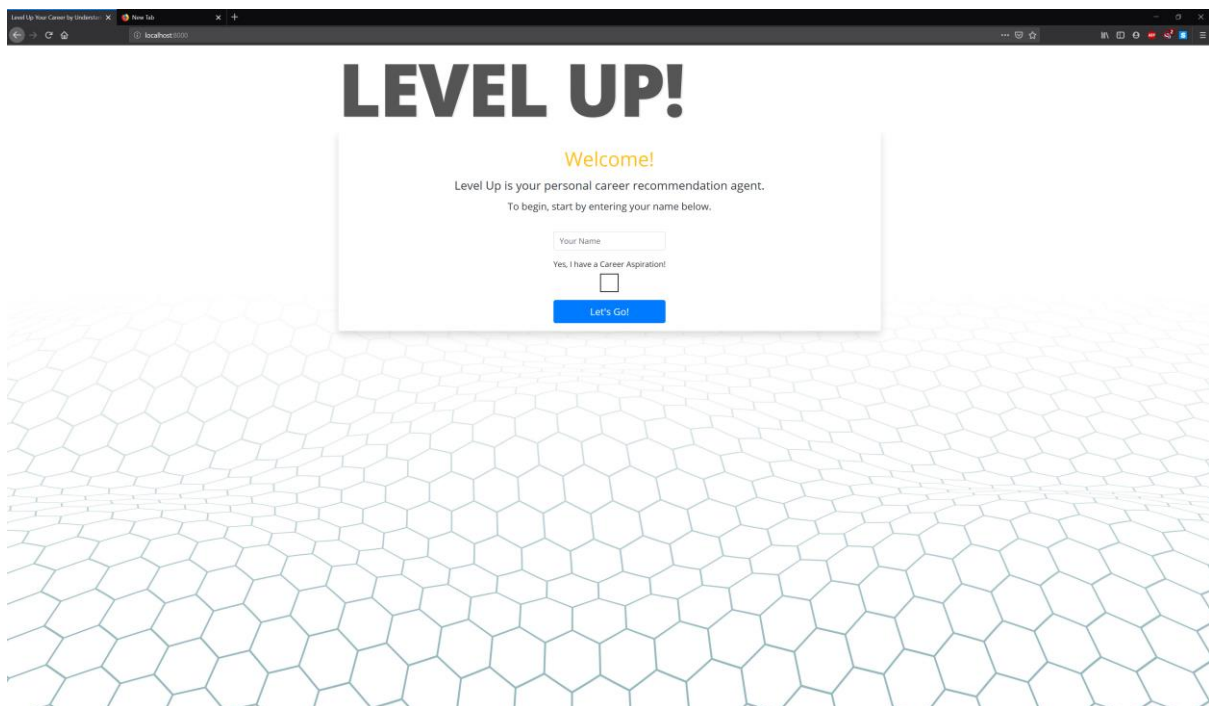
Step 10) Enter the following command to start the Django server.

```
python manage.py runserver
```


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

Test Case
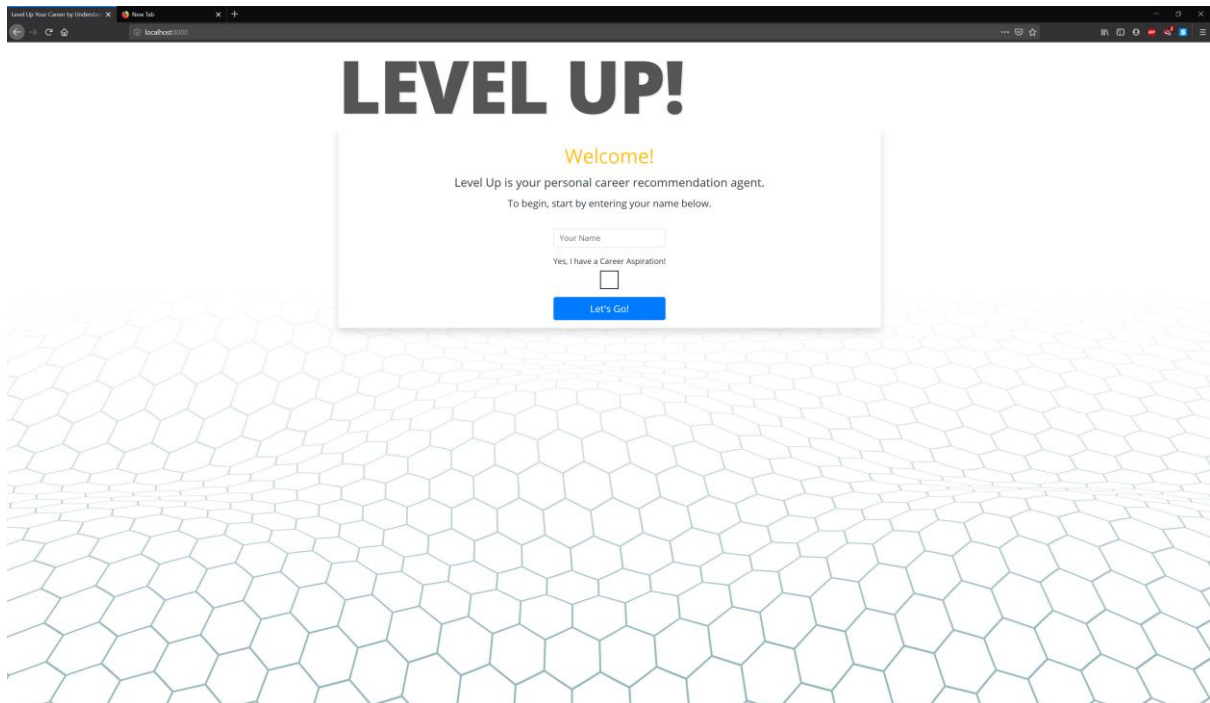
Test ID	Test case	Test case description	Test Step	Test Step Description	Expected Result
			Pre-Condition	Ensure django web server is started	The Level Up Career Recommendation site launched successfully
1	Validate career path availability	Test if there is available career path from initial career position to desired end goal	Step 1	Key in your name in the main page, put a **tick** on the checkbox and click Let's go	User details are requested on the subsequent webpage
			Step 2	Fill up user details (e.g., Highest education level: **Bachelor Degree**, YearsExp: **1**, Current work position: **Software Engineer, Tick** the checkbox for management role preference) and click submit	Career aspiration is requested
			Step 3	Select **Software Director** as the aspired career goal and click submit	User skills information is requested
			Step 4	Select **C** as skill 1 and click submit	Career path is returned, expected to see the best career path as such: **Software Engineer, Solution Architect, Senior Software Manager, Software Director**

2	Validate personality test functionality	Examine if personality test is returned when career aspiration is uncheck	Step 1	Key in your name in the main page, **untick** the checkbox and click Let's go	User details are requested on the subsequent webpage
			Step 2	Fill up user details (e.g., Highest education level: **Bachelor Degree**, YearsExp: **1**, Current work position: **Software Engineer, Tick** the checkbox for management role preference) and click submit	Personality test is returned
3	Validate career end point recommendation	Test if career end points are proposed after completing the personality test	Step 1	Follow **Test ID 2** and select the first answer for all 20 questions and click submit	Career End Point is proposed. Expected to see 3 suggested positions: **Senior Director, Senior Sales Director, Senior Software Director**
4	Validate job recommendation	Check if job is recommended	Step 1	Follow **Test ID 1**	Available job for application is displayed, expected to see **MNC Application Consultant (Solution Architect)Java / J2EE / X2 Permanent Opening**
5	Validate course recommendation	Check if course is recommended	Step 1	Follow **Test ID 1**	Available course for application is returned, expected to see a **list of suitable courses** for registration

Walkthrough
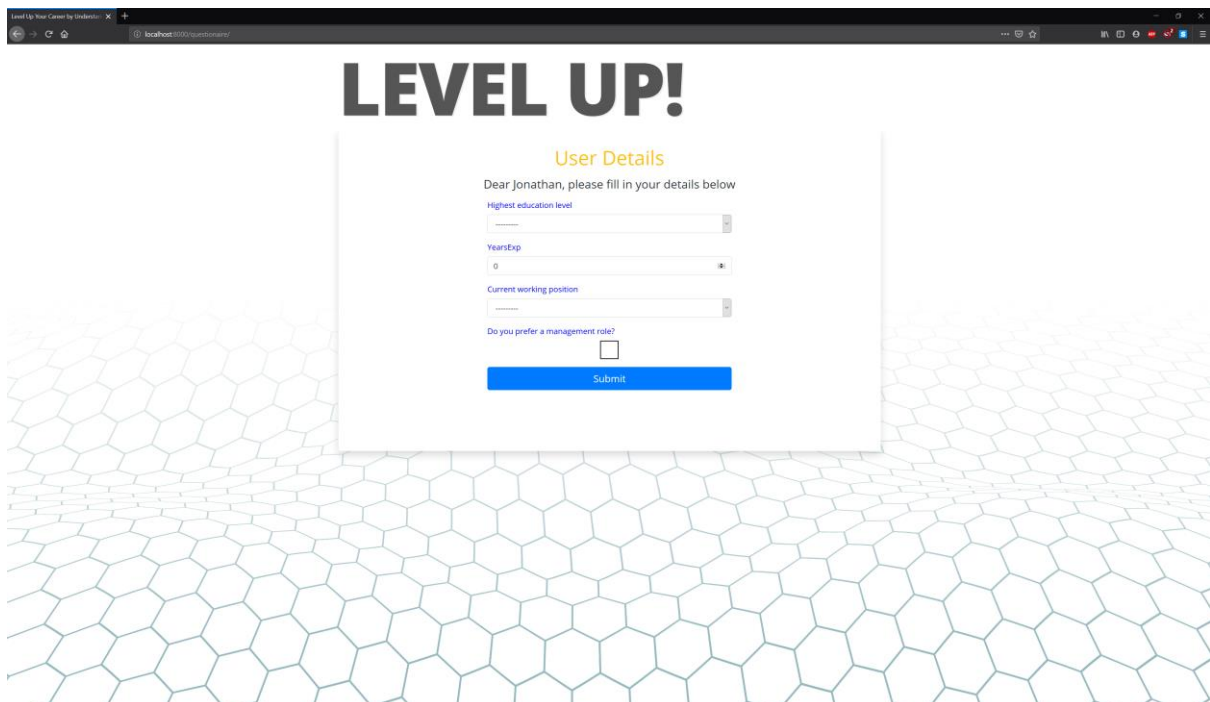
Workflow without Career Aspiration

1) Enter your name in the textbox provided 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.

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.

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.
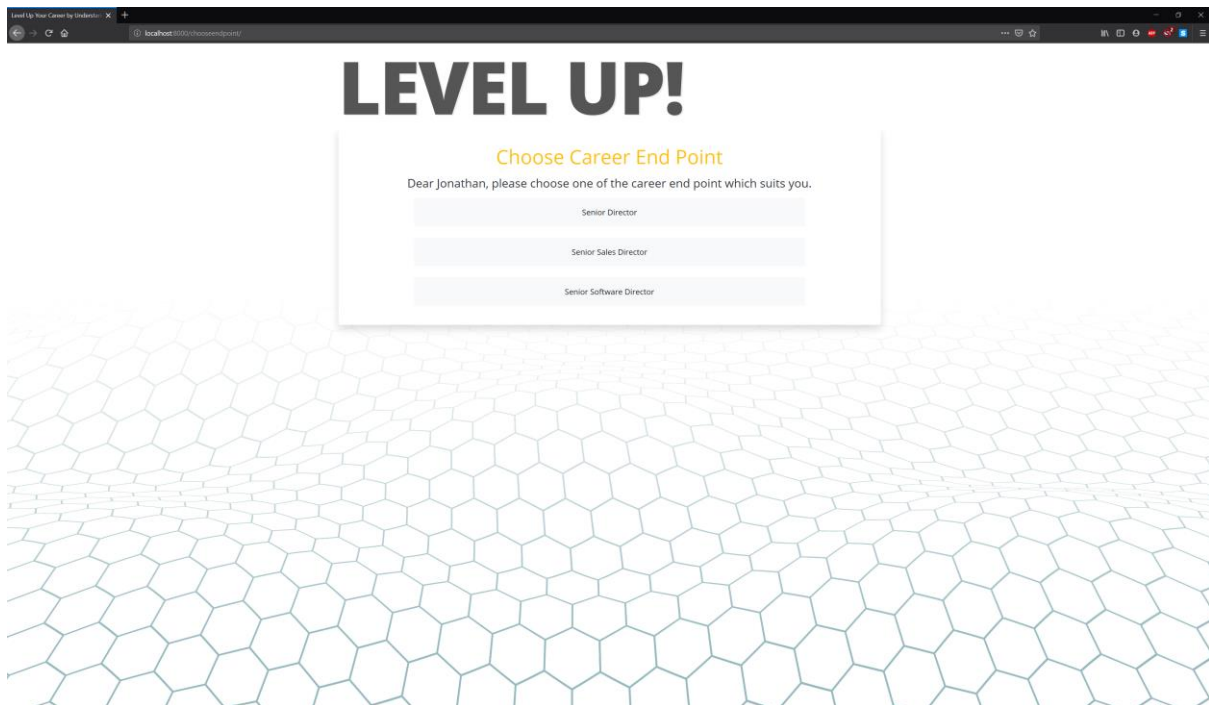
5) Next fill in your skill sets (up to 10 skills) and click the 'Submit' button.
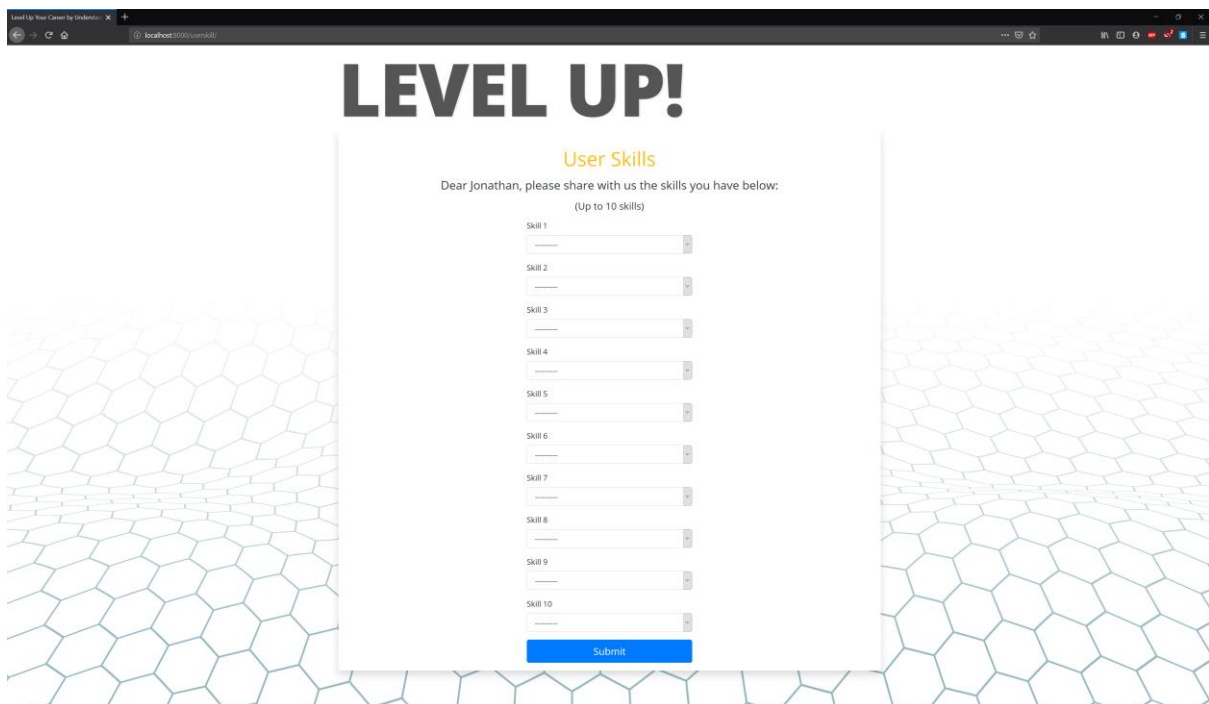
6) The career roadmap will now be shown, showing the best career path, job as well as course recommendations. Click on the respective job and course link to view their respective website.
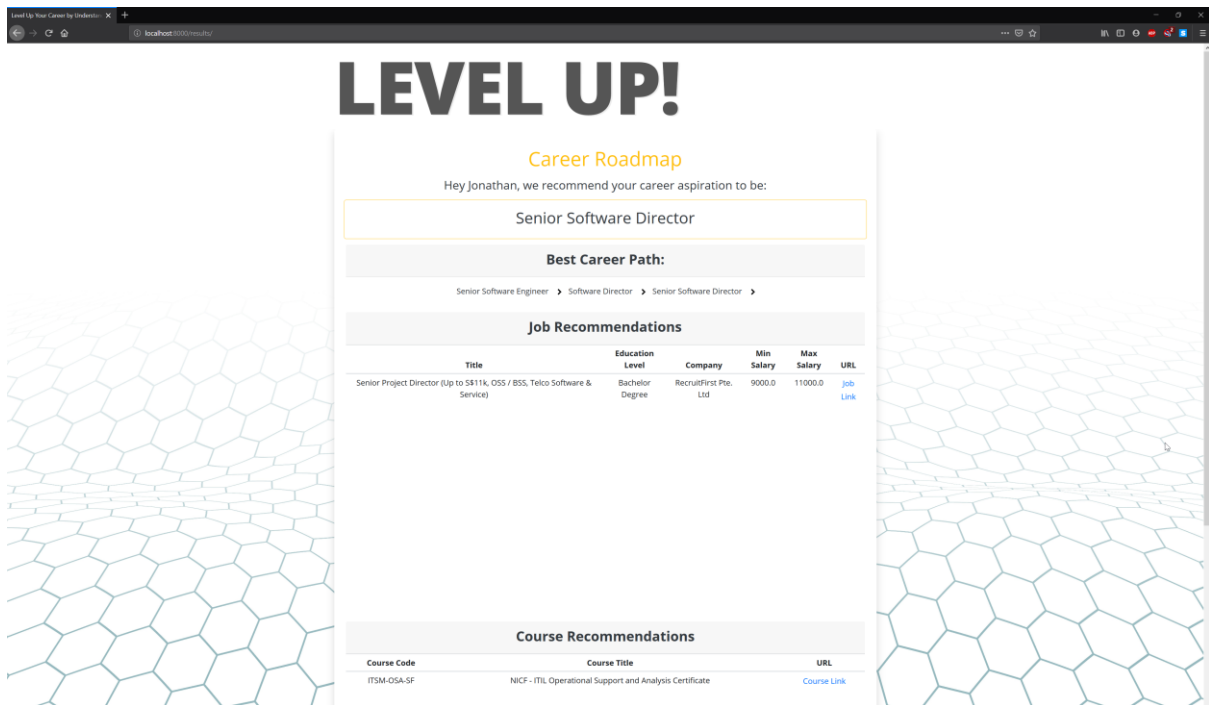
Workflow with Career Aspiration

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.

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

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

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.