1. **Package use and installation for the project.**

| Package name(with link to the document page) | Edition | Way to install (under Linux System) |
| --- | --- | --- |
| [python3](https://www.python.org/downloads/) | 3.8+ | <https://www.python.org/downloads/release/python-3811/> |
| [flask](https://flask.palletsprojects.com/en/2.0.x/) | 2.0.x | pip install Flask |
| [jwt](https://jwt.io/) | 2.3.0 | pip install pyjwt |
| [requests](https://docs.python-requests.org/zh_CN/latest/) | 2.18.1 | pip install requests |
| [sqlite3](https://docs.python.org/3/library/sqlite3.html) | 3.28.0+ | pip install sqlite |

1. **Deployment method**

1. Rent a linux server such as the [tencent server](https://intl.cloud.tencent.com/products/cvm) with public network ip and install all packages and environments as mentioned above.

2. Link to the [bitbucket](https://bitbucket.org/xjmm/soft3888_m17_02_group3/src/main/) repository and clone the repository to the server.

3. Change the ‘port number’ to 80 and host ip to ‘0.0.0.0’ in the ‘run.py’ file.

4. Change the app.secret\_key in the ‘Controller.py’ file.

5. Type ‘python3 run.py’ in the terminal to run the server

6. Using public network IP or domain name (if applied) to open the website.

1. **Perform Programming Tests**

1. Unit testing - run ‘python3 test.py’

2. AI matching fake data generation - install ‘[pandas](https://pandas.pydata.org/)’ package, then type ‘python3 fakedata\_generator.py’ in the terminal in ‘AIMatching\_FakeData’ folder to insert results into a new ‘database.db’. Additionally, un-comment the code line 124 to line 126 to generate the results in ‘.csv’ files which are ‘coach\_fake\_data.csv’ and ‘leader\_fake\_data.csv’.

3. Selenium -

* To run the virtual user testing, remember to install [chromedriver](https://chromedriver.chromium.org/) and selenium (pip install selenium).
* To initialize virtual\_user.py, remember to change the parameters of different testing functions in the main()
* The virtual\_user.py can only run one function at one time, remember comment other functions
* To run virtual\_user testing: python3 virtual\_user.py

1. **Testing Account Already in the Current Database**

It is useful to apply [DB Browser for SQLite](https://sqlitebrowser.org/) to see and modify all kinds of data in the database

Here, we list some accounts that exist in the current database

Leader account:

1. username: test, password: test
2. username: test22, password: test22

Coach account:

1. username: testcoach, password: testcoach
2. username: testcoach2, password: testcoach2

admin account:

1. username: admin, password: admin