

Murdoch University

CourseLoop - Callista Parser

User Manual

ICT302 IT Professional Practice Project,
Team (10) Black Widow

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Version 1.0

Instructions For Linux

In order to use the software solution designed, it has to be done through a web server. It can be run locally on any user's computer if the computer has Node.js and npm installed (refer to Installation Manual). It can also be accessed remotely if the user has access to the computer where the web server will be running.

As for this project, the files and folders have been uploaded to the provided Virtual Machine within Murdoch's network. To run the web server, the user has to log into the remote computer and follow these instructions:

1. Access the folder where WebServer.js file is stored.

```
ict302-2019-s2-g10@ICT302-2019-S2-G10:~$ cd Server
ict302-2019-s2-g10@ICT302-2019-S2-G10:~/Server$ cd Courseloop-API/
ict302-2019-s2-g10@ICT302-2019-S2-G10:~/Server/Courseloop-API$
```

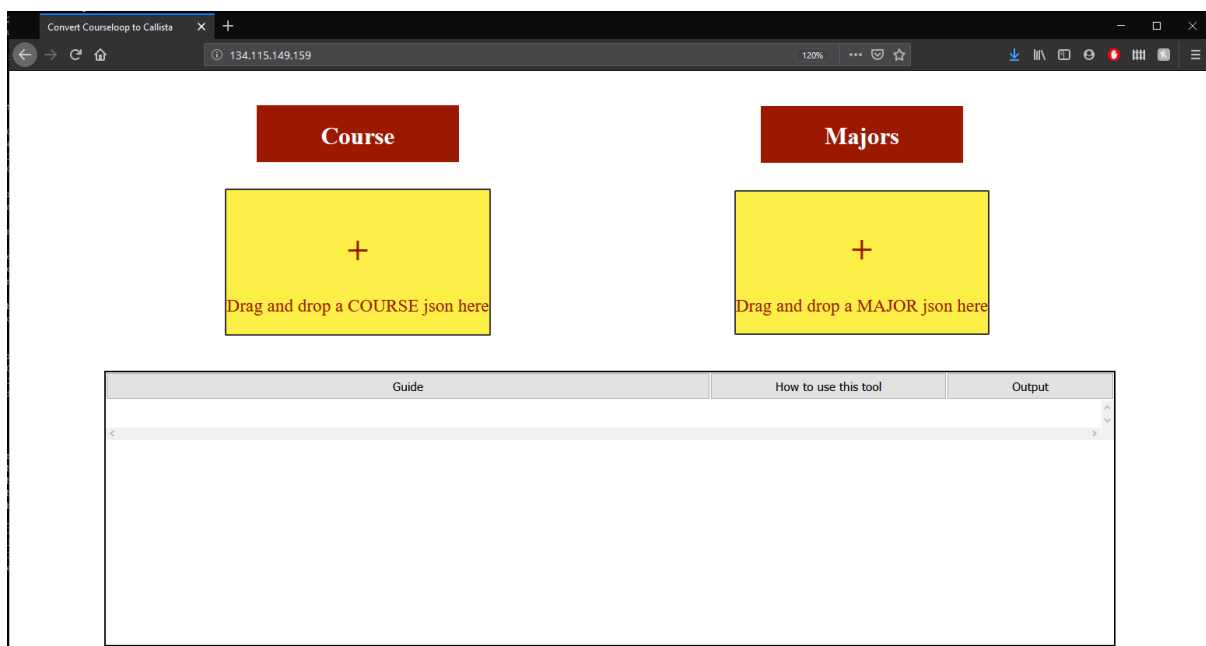
2. Once the user is in the Courseloop-API folder, must type the following line:

```
ict302-2019-s2-g10@ICT302-2019-S2-G10:~/Server/Courseloop-API$ sudo node WebServer.js
```

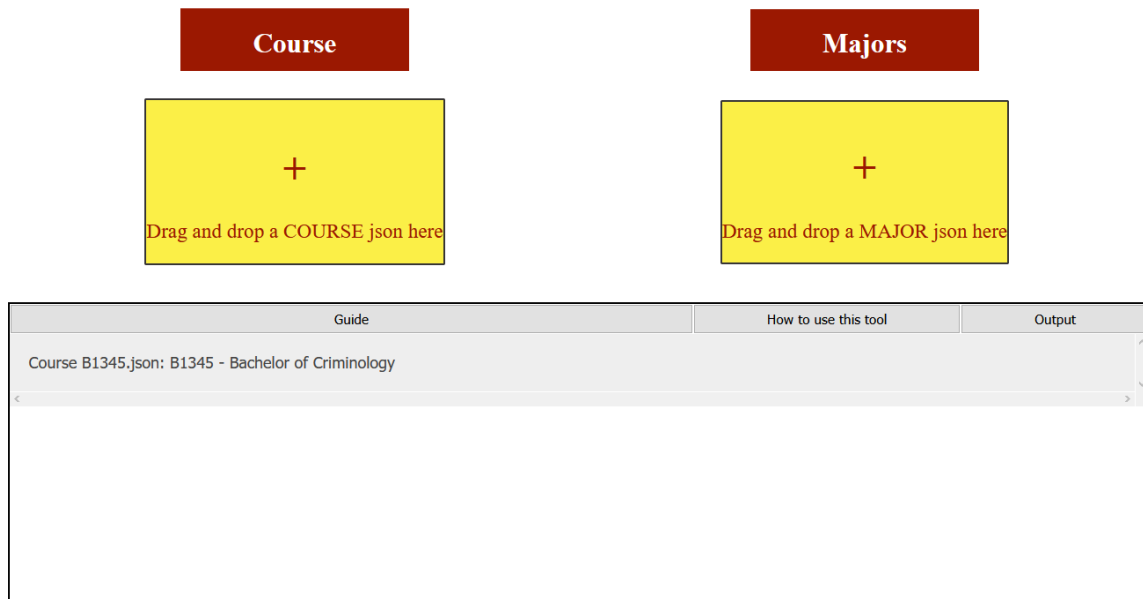
3. The command line will show that the Web Server has been initialized on port 80:

```
ict302-2019-s2-g10@ICT302-2019-S2-G10:~/Server/Courseloop-API$ sudo node WebServer.js
initilazed Web Server on port: 80
```

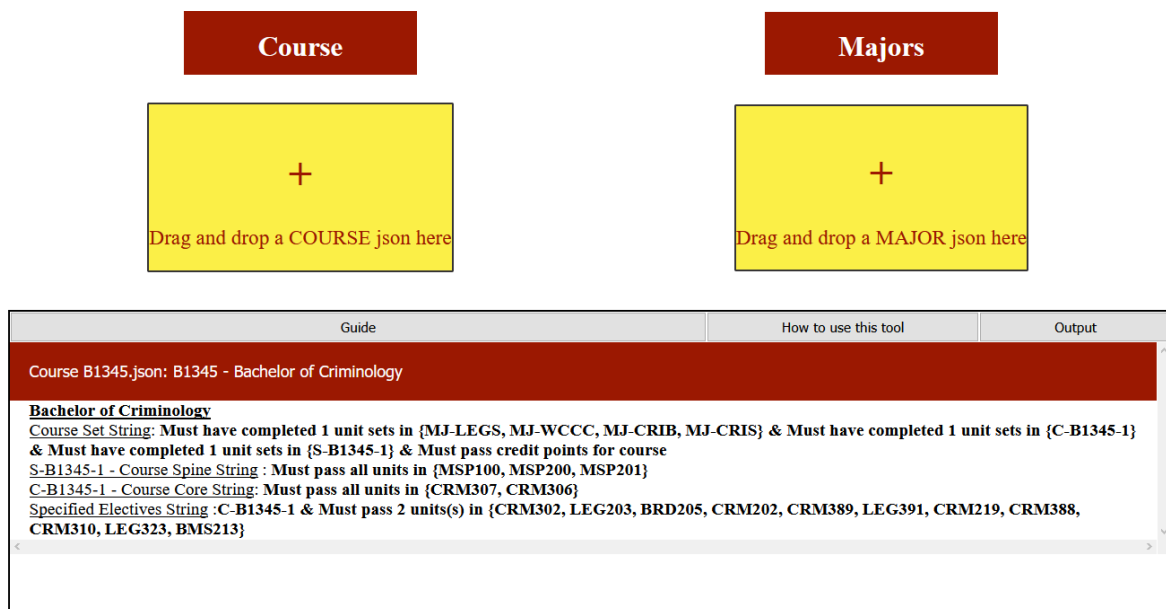
4. Once the Web Server has been initialized, the user must open a web browser and input the ip address of the hosting machine, in this case, 134.115.149.159. That will load the software solution in the web browser.



5. Once the user has accessed the software solution, the functionality is simple.
- The user should drag and drop the json file corresponding to a Course into the Course box. It will show the following:



6. The user then would need to click on the Output area, where the Course is shown.
- That would open all the strings for the Course dropped.



7. Also, when a Major is dropped, it will add the Major strings to the existing Course strings.

Course

+

Drag and drop a COURSE json here

Majors

+

Drag and drop a MAJOR json here

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Course B1345.json: B1345 - Bachelor of Criminology

Bachelor of Criminology
Course Set String: Must have completed 1 unit sets in {MJ-LEGS, MJ-WCCC, MJ-CRIB, MJ-CRIS} & Must have completed 1 unit sets in {C-B1345-1} & Must have completed 1 unit sets in {S-B1345-1} & Must pass credit points for course
S-B1345-1 - Course Spine String : Must pass all units in {MSP100, MSP200, MSP201}
C-B1345-1 - Course Core String: Must pass all units in {CRM307, CRM306}
Specified Electives String :C-B1345-1 & Must pass 2 units(s) in {CRM302, LEG203, BRD205, CRM202, CRM389, LEG391, CRM219, CRM388, CRM310, LEG323, BMS213}
MJ-LEGS String: Must pass all units in {CRM100, CRM219, CRM201, CRM120, BSL165, LEG323, CRM203, LEG391}

8. If for whatever reason, the user drops a json file in the wrong box, an error will appear on the screen.

Course

+

Drag and drop a COURSE json here

Majors

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Drag and drop a MAJOR json here

ERROR: Course uploaded in major box

OK

Guide

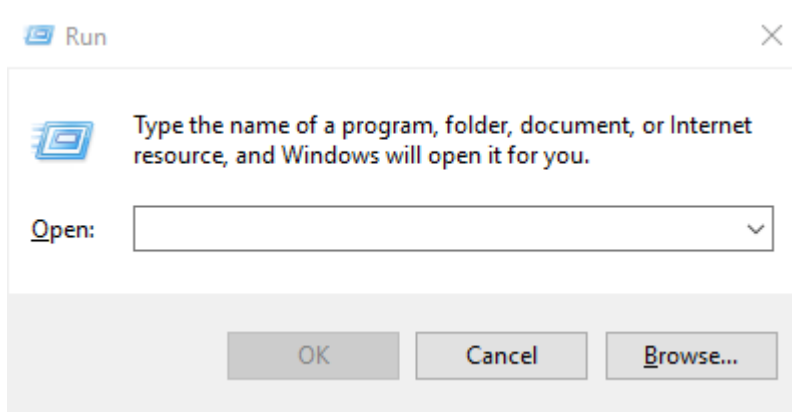
How to use this tool

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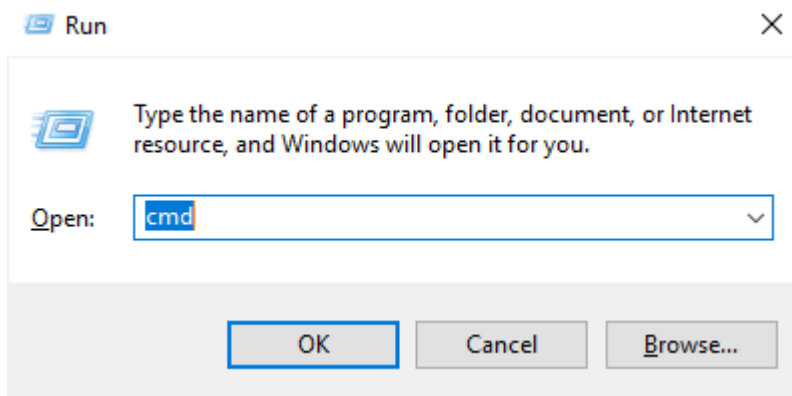
9. Finally, in order to reset the parser, the user just needs to refresh the browser.

Instructions for Windows

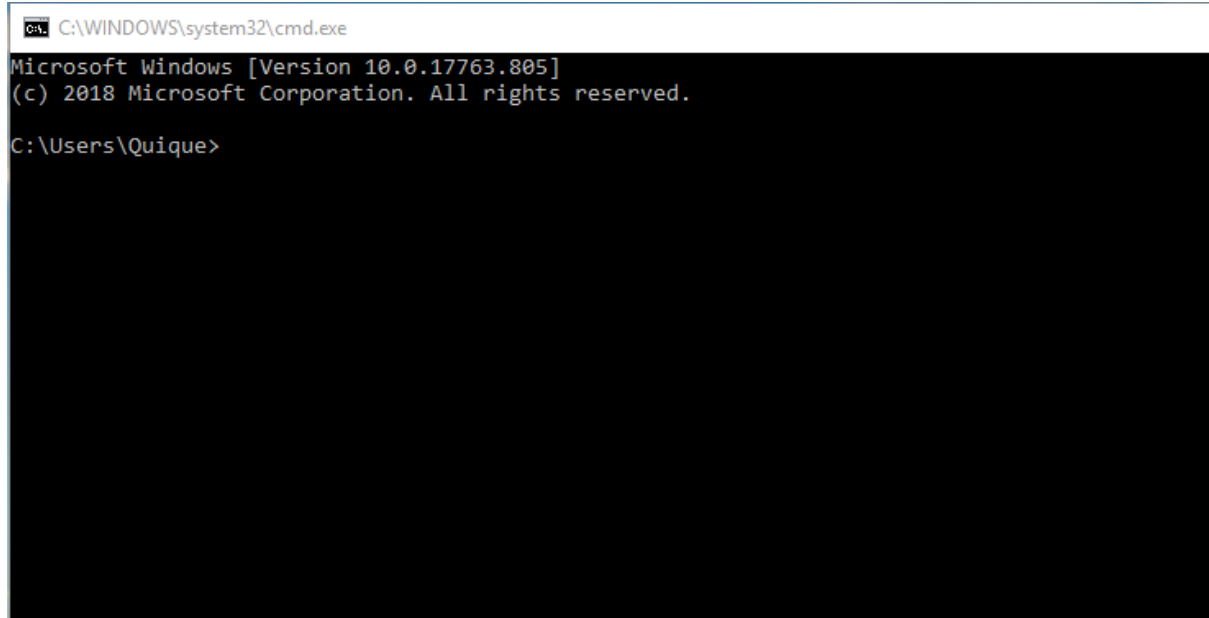
1. After the installation of Node.js on the Windows computer, the user has to open a command terminal (CMD). The quickest way to do so is using the Windows+R key combination of the keyboard. That will open a little run window:



2. Once the window is open, type cmd and click OK or press Enter:



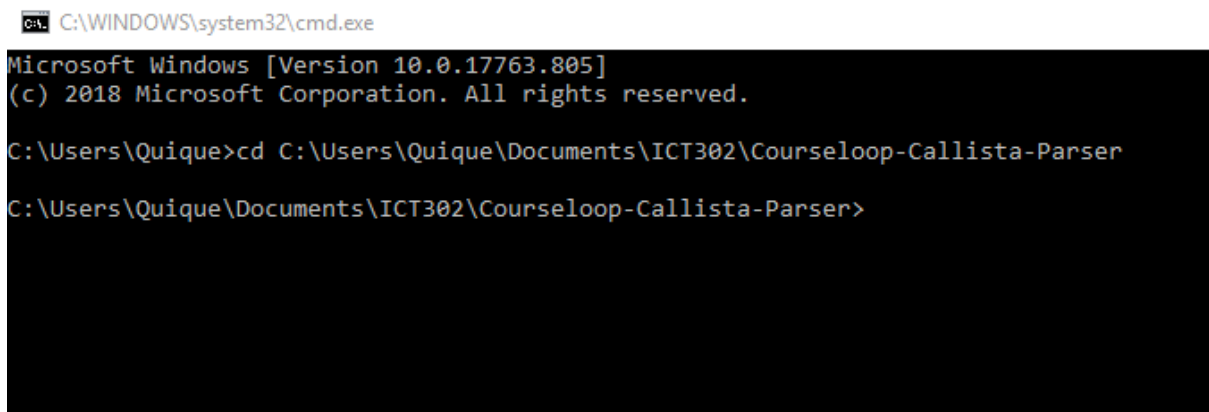
3. A black command line window will appear on the screen



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.17763.805]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Quique>
```

4. There, the user must type the path of the folder which contains the software files. In this case, the path will be C:\Users\Quique\Documents\ICT302\Courseloop-Callista-Parser, but the path will change depending on where the files are located in the user's computer.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.17763.805]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Quique>cd C:\Users\Quique\Documents\ICT302\Courseloop-Callista-Parser
C:\Users\Quique\Documents\ICT302\Courseloop-Callista-Parser>
```

5. Once the user is into the folder, the way of initializing the web server is almost the same as in Linux, typing the command node WebServer.js (in Linux the command needs to run as the root user(sudo) node WebServer.js). Once done, a message will show up stating that the Web Server has been initialized on port 80.

```
cmd C:\WINDOWS\system32\cmd.exe - node WebServer.js
Microsoft Windows [Version 10.0.17763.805]
(c) 2018 Microsoft Corporation. All rights reserved.

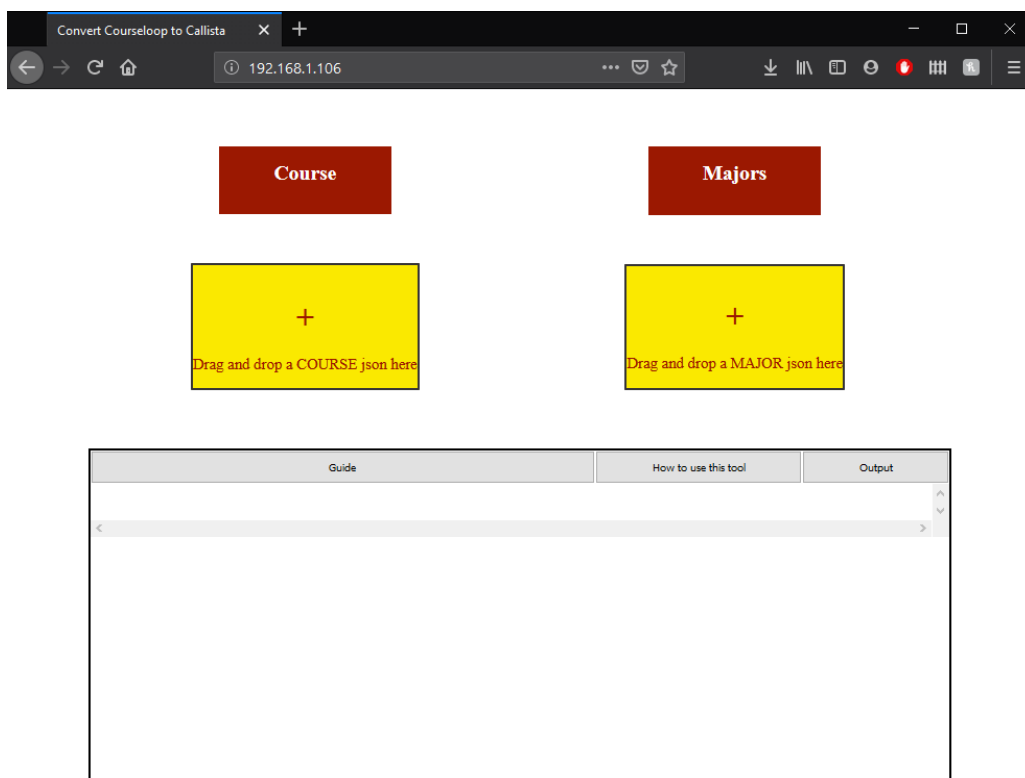
C:\Users\Quique>cd C:\Users\Quique\Documents\ICT302\Courseloop-Callista-Parser
C:\Users\Quique\Documents\ICT302\Courseloop-Callista-Parser>node WebServer.js
initilized Web Server on port: 80
```

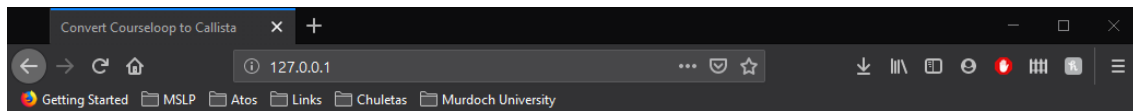
- Now, in order to be able to access the software parser, the user needs to open a web browser and type the ip address of the computer hosting the server, as we're hosting the server locally, we need our IP address

```
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . : 
Link-local IPv6 Address . . . . . : fe80::4d3f:1a70:d81e:9cfe%13
IPv4 Address. . . . . : 192.168.1.106
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1
```

- As it can be seen, the IP address which will show the software solution in this example would be 192.168.1.106, you could also use 127.0.0.1 or localhost.





Course

+

Drag and drop a COURSE json here

Majors

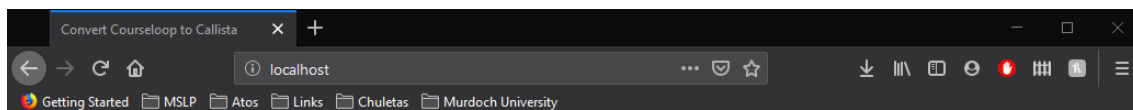
+

Drag and drop a MAJOR json here

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Troubleshooting

The software solution works as a web server so the problems which could cause a failure would be a problem with port 80, no connection to the server and firewall issues.

No other issues have been detected while implementing the software in both environments, Linux and Windows.