

Master Scheduler

Usage Documentation

Created by:

Anh Huynh

Alex Marion

Mahmuda Liza

Purav Barot

Ryan Efendy

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1. About the MasterSchedulizer

MasterSchedulizer serves to streamline the process of creating a plan of study, as well as to allow users to keep track of requirements and electives. Given a user's major(s) and minor(s), MasterSchedulizer creates a generic template which outlines a full college plan. The user can then add tracks, minors, electives, and other classes of interest. MasterSchedulizer will also track requirements and make sure that the plan of study doesn't violate university policy and is possible in the given timeframe (all courses must be available in the chosen term, etc.).

If integrated into Drexel's systems MasterSchedulizer would allow advisors to track advisees with greater ease. Heads of departments could also track the number of students who are taking a specific course in any given quarter giving a better estimate of the needed sections.

2. Installation Instructions

2.1. Install the Java JDK

Since MasterSchedulizer is mostly implemented in Java, it is necessary for the system to have Java installed.

Instructions to install the Java JDK can be found here:

https://www.java.com/en/download/help/download_options.xml

2.2. Install Eclipse (recommended)

MasterSchedulizer was implemented inside the Eclipse IDE. As a result, it is most optimized to run the program inside Eclipse IDE.

Instructions to install the Eclipse can be found here:

https://eclipse.org/downloads/index.php?show_instructions=TRUE

2.3. Open MasterSchedulizer project in Eclipse

3. Operation Instructions

3.1. Start Master Scheduler

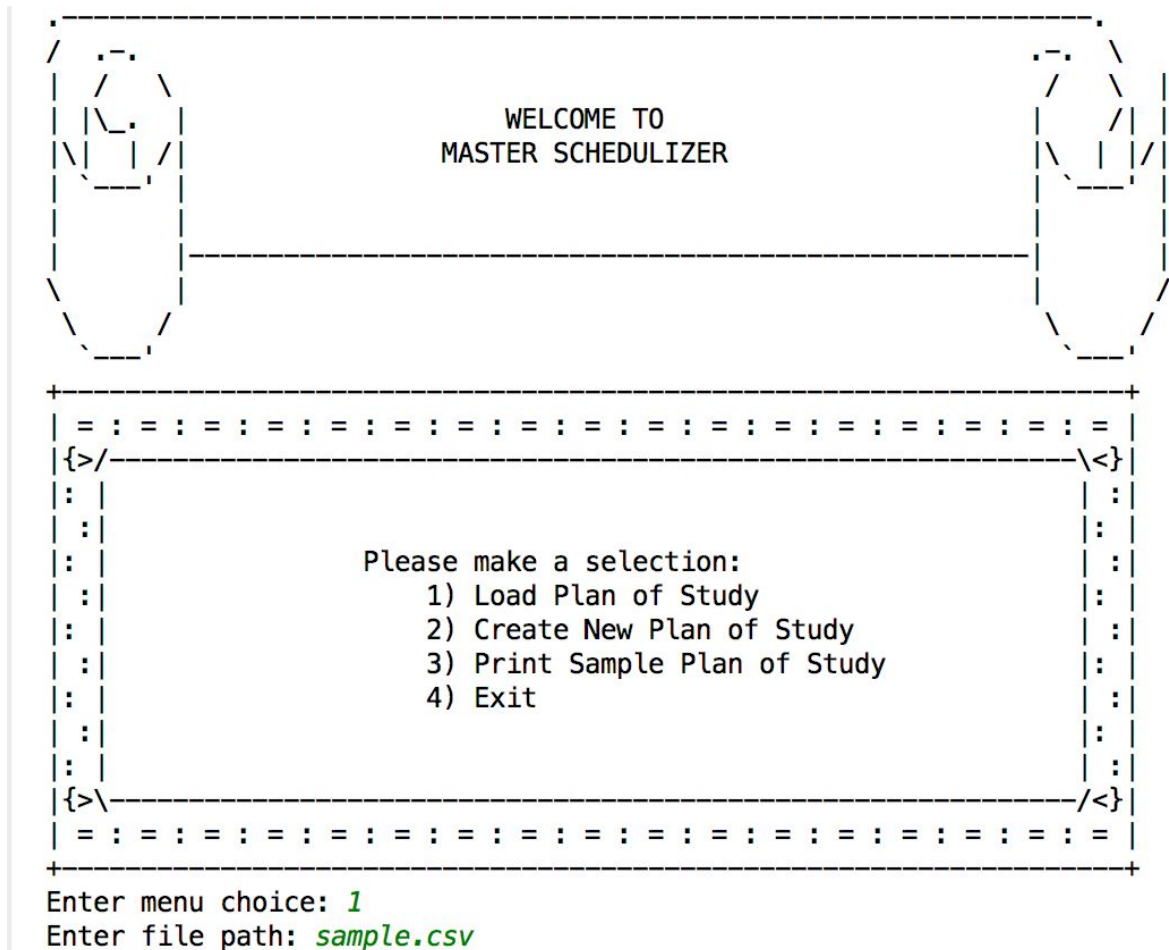


Figure 1

The menu that appears when use first runs MasterScheduler. User can now choose to execute one of the commands by entering the corresponding number of each command.

In this illustration, the user chooses to import an existing POS (whose name is "sample.csv") by entering 1 into the command prompt.

```

+=====+
|{}|-----|<|
|:|
|:|
|:|           Please make a selection:
|:|           1) View Plan of Study
|:|           2) Add Course
|:|           3) Remove Course
|:|           4) Move Course
|:|           5) Save
|:|           6) Back
|:|           7) Exit
|:|
|{}|-----|<|
|=====|
+=====+
Enter menu choice:

```

After entering a file path to an existing POS (a csv file), the user will be prompted to choose view, modify or save the current POS. The user can enter the corresponding number to execute the desired command.

Choosing to create a POS will result in the exact same screen as *Figure 2*.

3.4. View POS

Enter menu choice: 1			
PLAN OF STUDY			
NAME:	STUDENT ID#:	MAJOR:	CURRENT DATE:
FALL QUARTER	WINTER QUARTER	SPRING QUARTER	SUMMER QUARTER
Year: 2015 - 2016			
CI 101 CS 164 MATH 121 ENGL 101 UNIV 101 PHYS 101	CI 102 CIVC 101 COOP 101 CS 171 ENGL 102 PHYS 102 MATH 122	PHYS 201 CI 103 CS 172 ENGL 103 MATH 123	SUMMER BREAK
total credits:	total credits:	total credits:	total credits:
Year: 2016 - 2017			
CS 265 CS 270 MATH 201	CS 260 CS 275 MATH 221	COOP 1	COOP 1
total credits:	total credits:	total credits:	total credits:
Year: 2017 - 2018			
COM 230 CS 281 CS 350	CS 283 CS 360	COOP 2	COOP 2
total credits:	total credits:	total credits:	total credits:
Year: 2018 - 2019			
MATH 410 MATH 311	PHIL 311 CS 451	COOP 3	COOP 3
total credits:	total credits:	total credits:	total credits:
Year: 2019 - 2020			
CI 491	CI 492	CI 493	

Figure 3

The layout of a POS inside MasterScheduler. This POS appears when user chooses to view POS (each menu has this option, so that the user can verify the changes he/she made

3.5. Add a course to POS

```
+=====+
{>/-----\<}
:|                                     :|
:|                                     :|
:|           Please make a selection:  :|
:|           1) View Plan of Study     :|
:|           2) Add Course              :|
:|           3) Remove Course           :|
:|           4) Move Course             :|
:|           5) Save                    :|
:|           6) Back                    :|
:|           7) Exit                    :|
:|                                     :|
{>\-----/<}
+=====+
Enter menu choice: 2

+=====+
{>/-----\<}
:|                                     :|
:|                                     :|
:|           Type in the name of the Course :|
:|           you would like to add         :|
:|           (e.g. MATH 221):               :|
:|                                     :|
{>\-----/<}
+=====+
Enter Course: BIO 101

+=====+
{>/-----\<}
:|                                     :|
:|           Please make a selection:      :|
:|           1) 2015                      :|
:|           2) 2016                      :|
:|           3) 2017                      :|
:|           4) 2018                      :|
:|           5) 2019                      :|
:|           6) Back                      :|
:|           7) Exit                      :|
:|                                     :|
{>\-----/<}
+=====+
Enter menu choice: 2

+=====+
{>/-----\<}
:|                                     :|
:|           Please make a selection:      :|
:|           1) Fall                      :|
:|           2) Winter                    :|
:|           3) Spring                    :|
:|           4) Summer                    :|
:|           5) Back                      :|
:|           6) Exit                      :|
:|                                     :|
{>\-----/<}
+=====+
Enter menu choice: 1
Succesfully added BIO101 to Fall, 2016
Returning to the previous menu...
```

Figure 4

The process of adding a course to the current POS. After specifying a course to add, the user will proceed to choose a school year and a quarter to add to

3.6. Move a course throughout POS

[illegible]

Enter menu choice: 4

```

=====
{>/
:|
:|
:|
:|
:|
:|
:|
:|
{>\
/}<
=====

```

Enter Course: *COM 230*

[illegible]

Enter menu choice: 4

```
= : = : = : = : = : = : = : = : = : = : = : = : = : = : = : = :  
{>/\                                \<}  
:  
:  
: Please make a selection:  
:   1) Fall  
:   2) Winter  
:   3) Spring  
:   4) Summer  
:   5) Back  
:   6) Exit  
:  
:{>\                                \<}  
= : = : = : = : = : = : = : = : = : = : = : = : = : = : = : =
```

Enter menu choice: 1

COM230 moved from Fall, 2017 to Fall, 2018
Returning to the previous menu...

Figure 5

The process of moving a course throughout the current POS. After specifying a course to move, the user will proceed to choose a school year and a quarter to move to


```

+=====+
{|>/-----\<}
|:|
|:|
|:|           Please make a selection:
|:|           1) View Plan of Study
|:|           2) Add Course
|:|           3) Remove Course
|:|           4) Move Course
|:|           5) Save
|:|           6) Back
|:|           7) Exit
|:|
|:|
{|<-----/>}
+=====+
Enter menu choice: 3
+=====+
{|>/-----\<}
|:|
|:|
|:|           Type in the name of the Course
|:|           you would like to remove
|:|           (e.g. MATH 221):
|:|
|:|
{|<-----/>}
+=====+
Enter Course: BIO 101
BIO101 was removed from Fall, 2016
Returning to the previous menu...

```

The process of removing a course from the current POS. After specifying a course to move, the user will proceed to choose a school year and a quarter to move to

[illegible]

```
Enter menu choice: 5
Plan of study sucessfully saved to null0.csv
Returning to the previous menu...
```

The menu that appears when user chooses to save the current POS to the local machine as a csv file named “null0.csv”. This file is stored directly in the MasterScheduler project folder.

3.9. Exit MasterScheduler

```
+=====+
|{>/-----\<}|
|:|           |:|
|:|           |:|
|:|           |:|
|:|           |:|
|:|           |:|
|:|           |:|
|:|           |:|
|:|           |:|
|:|           |:|
|:|           |:|
|:|           |:|
|{>\-----/<}|
|=====+
Enter menu choice: 7
Goodbye!
Exiting Program
Process finished with exit code 0
```

Figure 7

The menu that appears when user chooses to exit from the program