

User Manual

github.com/linanqiu/ssol-courses

By Xingzhou He and Linan Qiu

Features

- Signs up for courses on SSOL automatically (and keeps retrying for courses that are full till you get them. No more clicking frenzy on sign up day!)
- Retries until you get the course
- Fetches courses from bulletin automatically (done live from Columbia Bulletin using ADI Courses API)
- Searches courses via keywords and departments (done live from Columbia Bulletin using ADI Courses API)
- Fetches Departments from Columbia Website (done live from Columbia website)
- Professors with CULPA reviews are indicated and linked to CULPA (done live from CULPA)
- Optimized timing to prevent SSOL IP Block
- IP Block Check
- Registration Appointment Timing Check

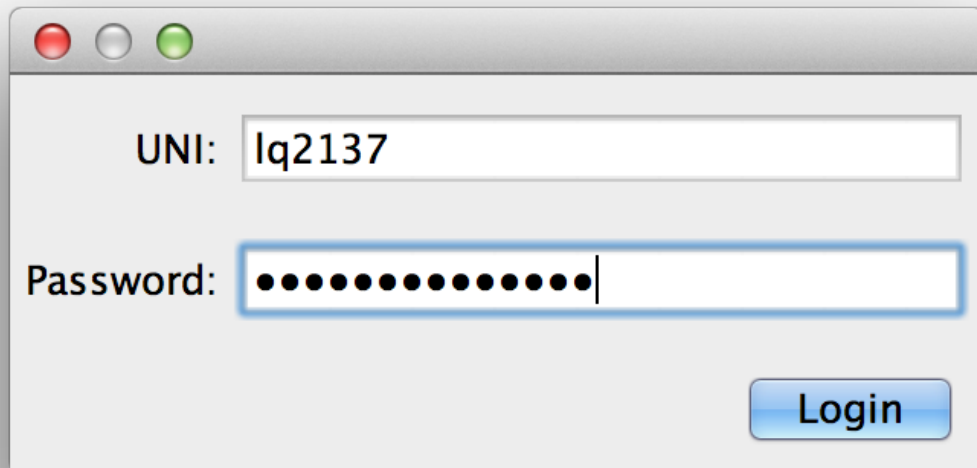
In other words, we didn't read anything off a text file. Everything should be updated live.

Dependencies

- Selenium WebDriver
- Gson
- MIGLayout
- Java 1.6

Quick Start

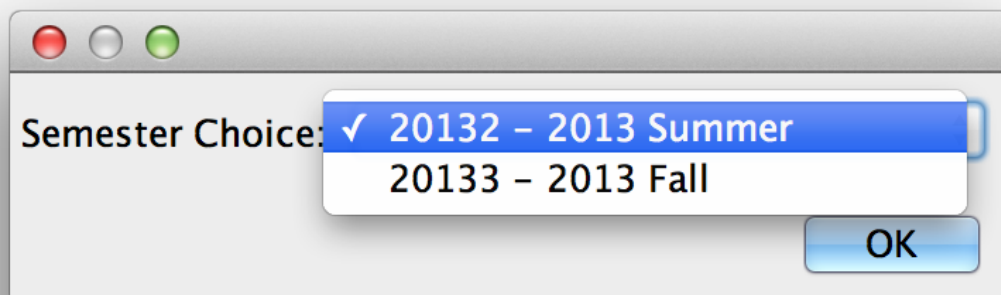
Login



A login dialog box with a title bar containing three colored buttons (red, yellow, green). It features two input fields: 'UNI:' with the text 'lq2137' and 'Password:' with masked characters (dots). A blue 'Login' button is located at the bottom right.

Log in by typing in your UNI and password. If wrong combination is entered, a notice will be shown.

Choose Semester



A 'Choose Semester' dialog box with a title bar containing three colored buttons (red, yellow, green). It displays a list of semester options: '20132 - 2013 Summer' (selected with a checkmark) and '20133 - 2013 Fall'. An 'OK' button is located at the bottom right.

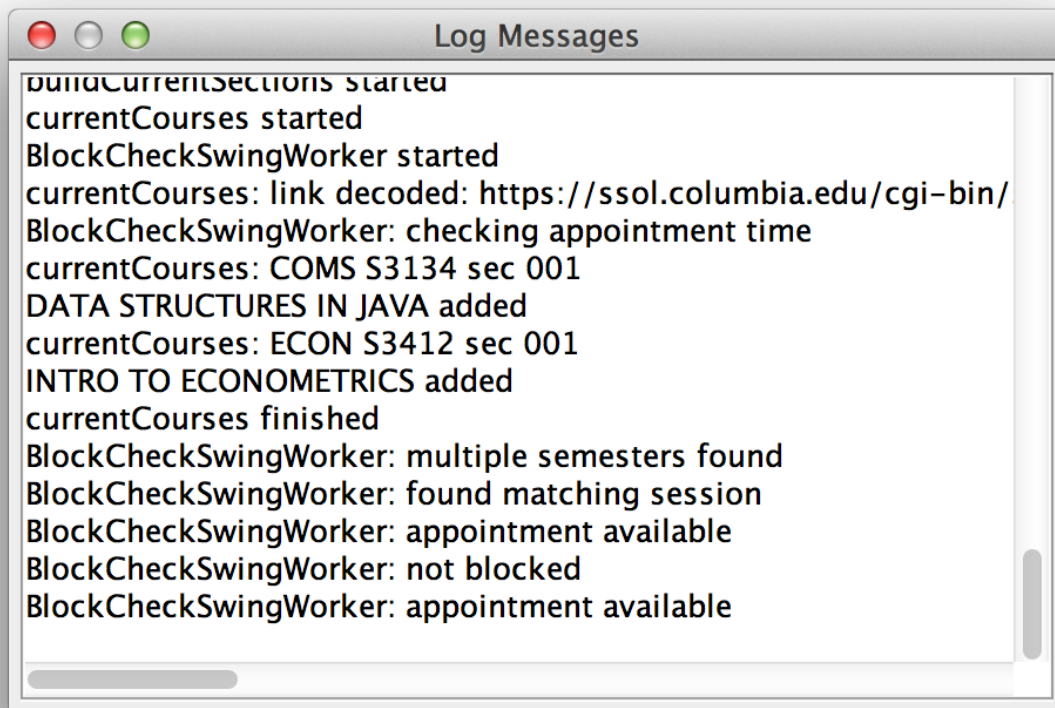
If you have the option of two semesters (for example, Summer 2013 and Fall 2013), you will be given a choice. If you only have one semester, this dialog will not show and your only semester will be chosen.

Main Interface

The screenshot shows a window titled "SSOL Bot" with a standard macOS-style title bar (red, yellow, green buttons). The interface is divided into several sections:

- Personal Information:** Displays user details: UNI: lq2137, Semester: 20132 - 2013 Summer, Block Status: Not Blocked (highlighted in green), and Reg Appointment: Available (highlighted in green). Below this is a "Show Log Messages" button.
- Existing Sections:** A list box containing the text: COMS 3134S sec 001, DATA STRUCTURES IN JAVA, ECON 3412S sec 001, and INTRODUCTION TO ECONOMETRIC. Below the list is a scrollbar.
- Created By:** Credits the developers: Xingzhou He (xh2187@columbia.edu) and Linan Qiu (lq2137@columbia.edu), with a note "With Help From Swap and Morris".
- Section Directory:** Features a dropdown menu set to "(All)", a search input field, and a "Search" button. Below the search field is a large empty rectangular area. To the right of this area are two buttons: a "+" button and a "-" button.
- Sections To Add:** A large empty rectangular area for listing sections to be added.
- Run:** Contains two large buttons: "Start" and "Stop".

You will now be at the main window. **Personal Information** section shows your UNI and your chosen semester. It also shows if you are blocked by SSOL. (Note: You will be blocked if you click too many times in a given time frame. While we optimized the program's timing to avoid that, SSOL is still an ass sometimes.) It also shows if you have a registration appointment available right now.



You can also view log messages. We basically redirected System.out OutputStream to here.

You will also see your **current sections**. **Current Sections are only updated the night before, so it is only accurate as of midnight the previous registration day.** Blame SSOL.

SSOL Bot

Personal Information UNI: Iq2137 Semester: 20132 - 2013 Summer Block Status: Not Blocked Reg Appointment: Available Show Log Messages	Existing Sections COMS 3134S sec 001 DATA STRUCTURES IN JAVA ECON 3412S sec 001 INTRODUCTION TO ECONOMETRIC	Created By: Xingzhou He xh2187@columbia.edu Linan Qiu lq2137@columbia.edu With Help From Swap and Morris
Section Directory (All) ✓ (All) ACNT-Accounting ARAF-African-American Studies, Institute for Research in AFSB-Africana Studies AMLPAmerican Language Program AMST-American Studies AMSB-American Studies @Barnard ANAT-Anatomy & Cell Biology	Sections To Add	Run Start Stop

Section Directory allows you to search for sections to add. You can either search by department using keywords or search in all departments using keywords.

SSOL Bot

Personal Information

UNI: Iq2137

Semester: 20132 - 2013 Summer

Block Status: Not Blocked

Reg Appointment: Available

Show Log Messages

Existing Sections

COMS 3134S sec 001
DATA STRUCTURES IN JAVA
ECON 3412S sec 001
INTRODUCTION TO ECONOMETRIC

Created By:

Xingzhou He
xh2187@columbia.edu

Linan Qiu
lq2137@columbia.edu

With Help From
Swap and Morris

Section Directory

(All)

econometrics

Search

ECON3412 INTRODUCTION TO ECONOME
Sec 001:ONATSKI, ALEXEI, MTWR 14:4

+

-

Sections To Add

Run

Start

Stop

In the **Course Listing**, Sections are categorized by courses, hence you won't be spammed by a 100 LitHum sections.

Section Information

Course Number	ECON4415S001		
Title	GAME THEORY		
Description	Introduction to the systematic treatment of game theory and its applications in economic analysis.		
Credits	3.0		
Instructor	SOARES, ILTON G	Call Number	60796
Time	MTWR 18:30-20:05	Location	517 HAMILTON HAL
Registration	38/999	Not Full	

OK

Double clicking on any section (including the ones in existing sections, section directory and section to add) brings up the **Instructor Dialog**. This shows information about the instructor.

Section Information

Course Number	ECON3213S001		
Title	INTERMEDIATE MACROECONOMICS		
Description	This course covers the determination of output, employment, inflation and interest rates. Topics include economic growth, business cycles, monetary and fiscal policy, consumption and savings and national income accounting.		
Credits	3.0		
Instructor	MONTES-GALDON, CARLOS	Call Number	82397
Time	MTWR 14:45-16:20	Location	502 HAMILTON HAL
Registration	33/999	Not Full	

OK

If the instructor is present on CULPA, his name will appear differently. Clicking on it brings up your browser straight to his CULPA page.

Clicking the "+" sign adds sections to the **Sections To Add** portion. Clicking "-" removes it from the portion.

SSOL Bot

Personal Information

UNI: Iq2137

Semester: 20132 - 2013 Summer

Block Status: Not Blocked

Reg Appointment: Available

Show Log Messages

Existing Sections

COMS 3134S sec 001
DATA STRUCTURES IN JAVA
ECON 3412S sec 001
INTRODUCTION TO ECONOMETRIC

Created By:

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xh2187@columbia.edu

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With Help From
Swap and Morris

Section Directory

(All)

macroeconomics

Search

ECON3213 INTERMEDIATE MACROECONO
Sec 001: MONTES-GALDON, CARLOS, M
EMPA6035 OPEN ECONOMY MACROECON
PEPM6104 MACROECONOMICS I
Sec 001: OTTONELLO, PABLO, MW 11:0
Sec R01:, W 14:10-16:00

+

-

Sections To Add

ECON 4415S sec 001
GAME THEORY
ECON 3213S sec 001
INTERMEDIATE MACROECONOMICS

Run

Start

Stop

Clicking **Start** runs the bot. The bot will attempt to get the classes for you on SSOL. If it is a success, the section will appear GREEN.

SSOL Bot

Personal Information

UNI: Iq2137
Semester: 20132 - 2013 Summer
Block Status: Not Blocked
Reg Appointment: Available
Show Log Messages

Existing Sections

COMS 3134S sec 001
DATA STRUCTURES IN JAVA
ECON 3412S sec 001
INTRODUCTION TO ECONOMETRIC

Created By:

Xingzhou He
xh2187@columbia.edu
Linan Qiu
lq2137@columbia.edu
With Help From
Swap and Morris

Section Directory

(All)

macroeconomics

Search

ECON3213 INTERMEDIATE MACROECONO
Sec 001: MONTES-GALDON, CARLOS, M
EMPA6035 OPEN ECONOMY MACROECON
PEPM6104 MACROECONOMICS I
Sec 001: OTTONELLO, PABLO, MW 11:0
Sec R01:, W 14:10-16:00

+

-

Sections To Add

ECON 4415S sec 001
GAME THEORY
ECON 3213S sec 001
INTERMEDIATE MACROECONOMICS

Run

Start

Stop

If it is unsuccessful (probably because the course is full), it will appear yellow. If the course is not found, it will appear red. Green and red sections will be skipped every subsequent run.

If the course is unsuccessful, the bot will keep retrying every 50 seconds. After all, this is the whole point of the program.