

Task 1

Before a normal searching.

Trivial Team T-10: Course Scraper

Main

Backend

Filter

List

Timetable

All Subject Search

SFQ

Base URL

https://w5.ab.ust.hk/wcq/cgi-bin/

Term

1940

Subject

COMP

Search

Please note that during grading we will save the Base URL into another site and manually edit some dat

Console

All scraped courses are showed in the Main tab console after searching.

The screenshot shows a web application titled "Trivial Team T-10: Course Scraper". It has a navigation bar with tabs: Main, Backend, Filter, List, Timetable, All Subject Search, and SFQ. The "Main" tab is active. Below the tabs, there are three input fields: "Base URL" with the value "https://w5.ab.ust.hk/wcq/cgi-bin/", "Term" with the value "1910", and "Subject" with the value "COMP". A "Search" button is to the right of the "Subject" field. Below the input fields, a message states: "Please note that during grading we will save the Base URL into another site and manually edit some data". At the bottom, there is a "Console" section with a scrollable list of scraped course data.

Base URL

Term

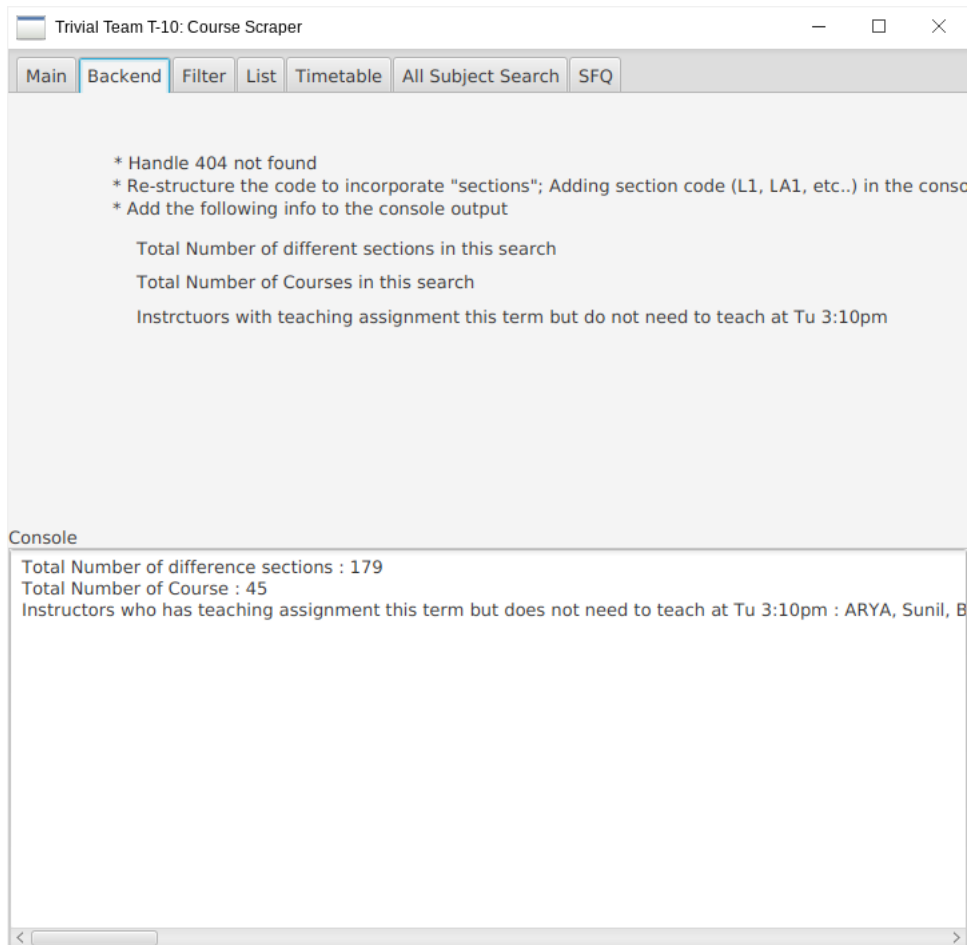
Subject

Please note that during grading we will save the Base URL into another site and manually edit some data

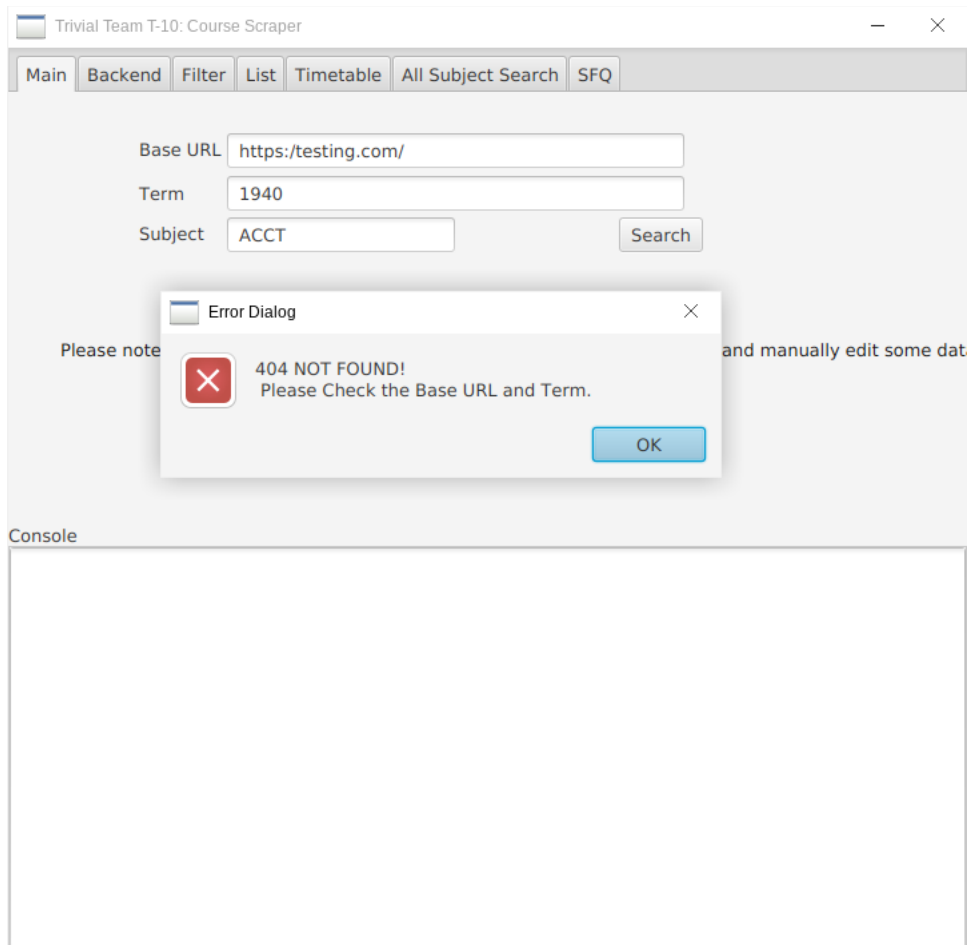
Console

- COMP 1001 - Exploring Multimedia and Internet Computing (3 units)
 - L1 (1782) Slot 0:We15:00-16:50:Rm 5620, Lift 31-32 (70)
 - LA1 (1783) Slot 0:Th16:00-17:50:Rm 4210, Lift 19 (67)
- COMP 1021 - Introduction to Computer Science (3 units)
 - L1 (1784) Slot 0:Mo12:00-12:50:Rm 2306, Lift 17-18 (111)
 - L1 (1784) Slot 1:We12:00-12:50:Rm 2306, Lift 17-18 (111)
 - L2 (1786) Slot 0:We16:30-17:20:Lecture Theater F (134)
 - L2 (1786) Slot 1:Fr16:30-17:20:Lecture Theater F (134)
 - L3 (1788) Slot 0:We15:00-15:50:Rm 2306, Lift 17-18 (111)
 - L3 (1788) Slot 1:Fr15:00-15:50:Rm 2306, Lift 17-18 (111)
 - L4 (1790) Slot 0:Tu15:00-15:50:Rm 2465, Lift 25-26 (122)
 - L4 (1790) Slot 1:Th15:00-15:50:Rm 2465, Lift 25-26 (122)
 - L5 (3904) Slot 0:Tu13:30-14:20:Rm 4620, Lift 31-32 (126)
 - L5 (3904) Slot 1:Th13:30-14:20:Rm 4620, Lift 31-32 (126)
 - L6 (3905) Slot 0:Tu16:30-17:20:Rm 4620, Lift 31-32 (126)
 - L6 (3905) Slot 1:Th16:30-17:20:Rm 4620, Lift 31-32 (126)

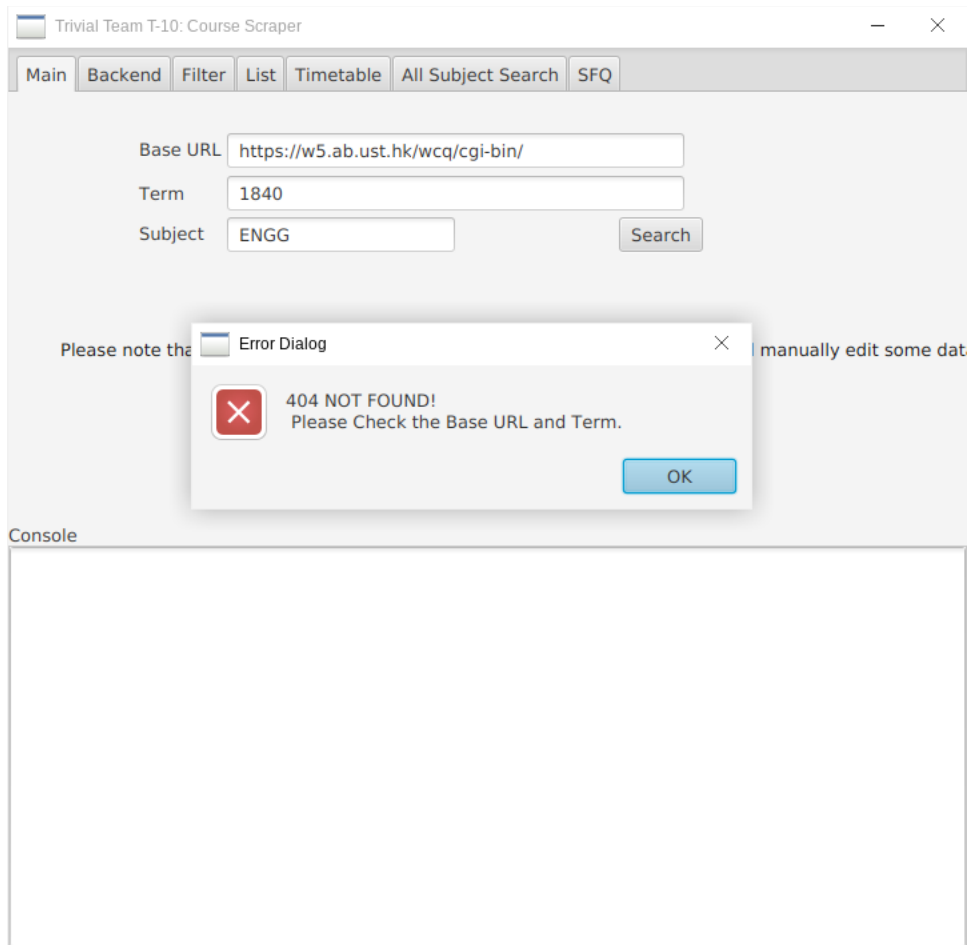
The information of the total number of difference sections, the total number of course and the instructors who has teaching assignment this term but does not need to teach at Tu 3:10pm for this searching are showed in the Backend tab console.



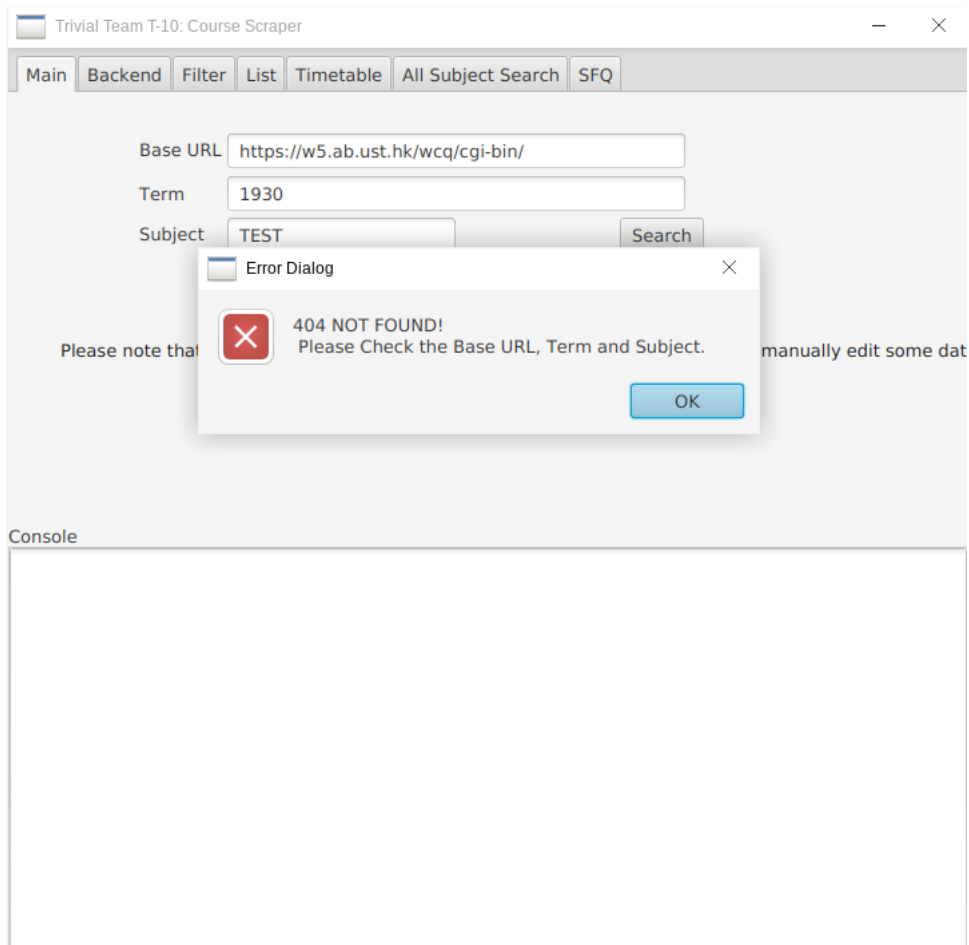
Searching with invalid base URL will be stopped and it will an error message.



Searching with invalid term will be stopped and it will show an error message.



Searching with invalid subject will be stopped and it will show an error message.



Task 5

Before a normal searching.

Trivial Team T-10: Course Scraper

Main

Backend

Filter

List

Timetable

All Subject Search

SFQ

Base URL

https://w5.ab.ust.hk/wcq/cgi-bin/

Term

1910

Subject

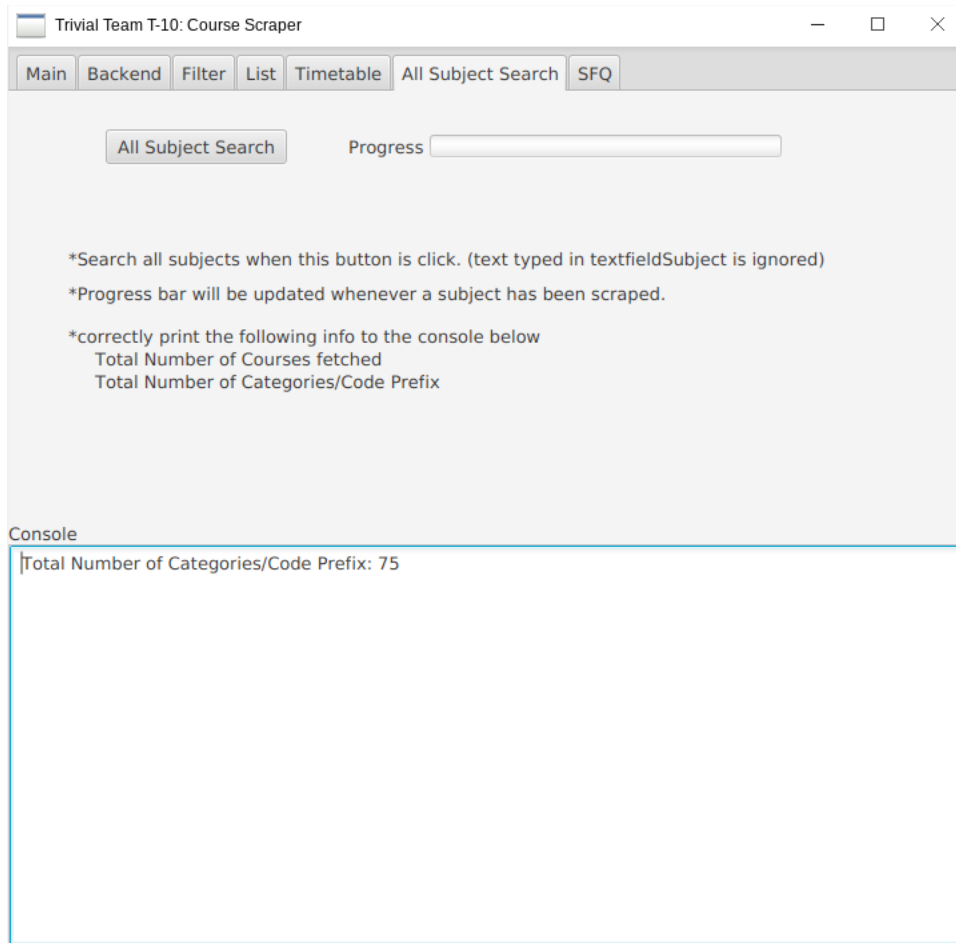
COMP

Search

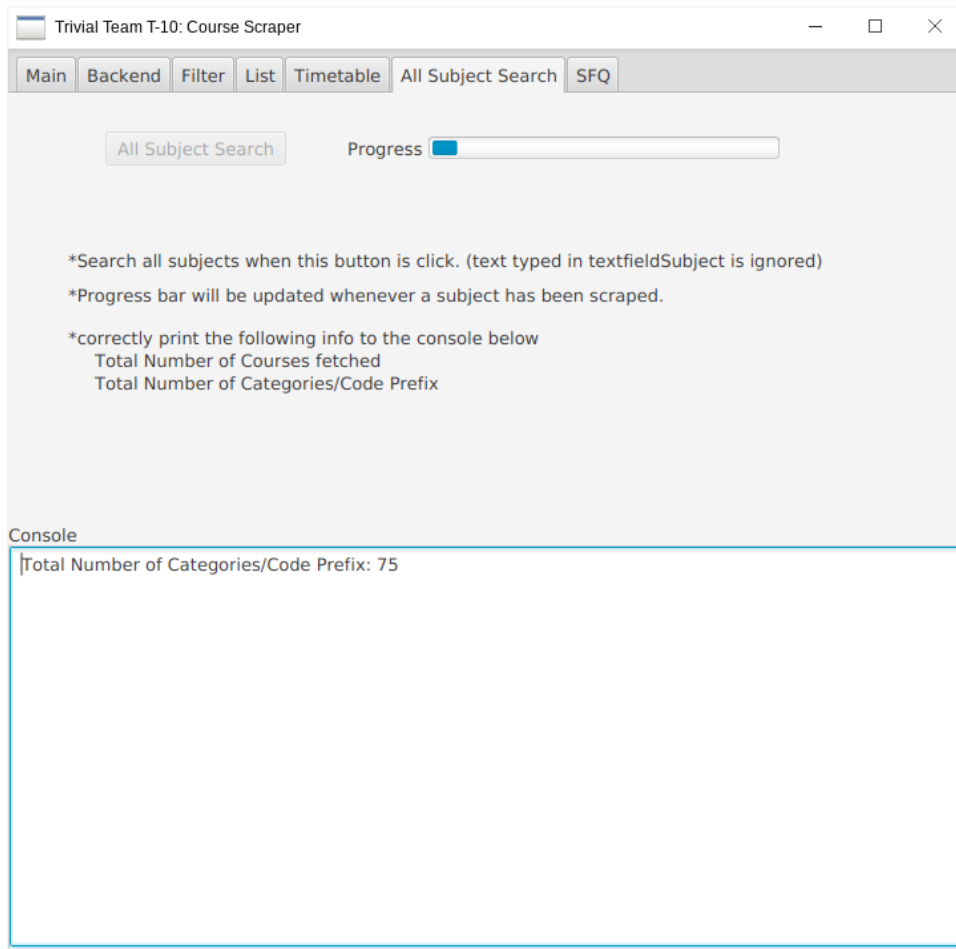
Please note that during grading we will save the Base URL into another site and manually edit some dat

Console

The total number of Categories/Code Prefix will be showed when the All Subject Search Button in the All Subject Search tab or the Search Button in the Main tab is clicked once.



It starts to search all courses of the subjects that are scraped previously when the All Subject Search Button is clicked at the second time, and the All Subject Search Button will be disabled to avoid conflict during searching.



It will also show which subject that all courses in this subject are scraped.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

> Executing task: gradle: run <

> Task :run
ACCT is done
AESF is done
BIBU is done
BIEN is done
BIPH is done
BTEC is done
CBME is done
CENG is done
CHEM is done
CHMS is done
CIEM is done
CIVL is done
COMP is done
CPEG is done
CSIC is done
CSIT is done
<=====---> 80% EXECUTING [1m 59s]
> :run
```

All text input fields and the Search button in the Main tab are also disabled during searching.

The screenshot shows a web application window titled "Trivial Team T-10: Course Scraper". It features a tabbed interface with tabs for "Main", "Backend", "Filter", "List", "Timetable", "All Subject Search", and "SFQ". The "Main" tab is active and contains three input fields: "Base URL" with the value "https://w5.ab.ust.hk/wcq/cgi-bin/", "Term" with the value "1910", and "Subject" with the value "COMP". A "Search" button is located to the right of the "Subject" field. Below the input fields, a message states: "Please note that during grading we will save the Base URL into another site and manually edit some data". At the bottom of the window is a "Console" panel displaying a list of course sections. The console output includes course names like "ECON 5110 - Managerial Microeconomics (2 units)" and "ECON 5130 - Microeconomic Analysis (4 units)", followed by their respective section numbers, slots, times, and locations. The console has a vertical scrollbar on the right side.

Trivial Team T-10: Course Scraper

Main Backend Filter List Timetable All Subject Search SFQ

Base URL

Term

Subject

Please note that during grading we will save the Base URL into another site and manually edit some data

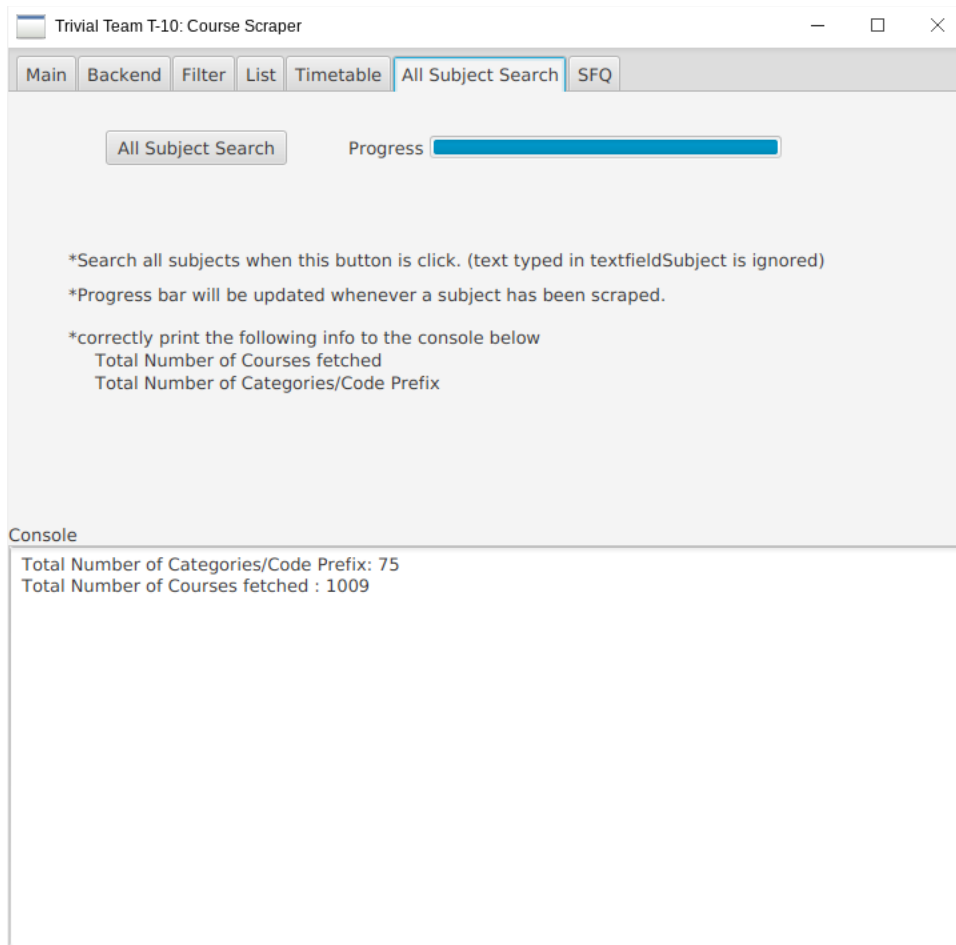
Console

L1 (1169) Slot 2:Tu09:00-11:50:Lecture Theater F (134)
L1 (1169) Slot 3:Th09:00-11:50:Lecture Theater F (134)

ECON 5110 - Managerial Microeconomics (2 units)
L1 (1153) Slot 0:Tu09:30-12:50:Rm 2003, LSK Bldg
L1 (1153) Slot 1:Tu14:00-17:20:Rm 2001, LSK Bldg
L2 (1154) Slot 0:Tu14:00-17:20:Rm 2003, LSK Bldg
L3 (1174) Slot 0:Sa09:00-12:20:Rm 2003, LSK Bldg
L3 (1174) Slot 1:Sa09:00-12:20:Rm 2003, LSK Bldg
L4 (1176) Slot 0:Sa14:00-17:20:Rm 2003, LSK Bldg
L4 (1176) Slot 1:Sa14:00-17:20:Rm 2003, LSK Bldg

ECON 5130 - Microeconomic Analysis (4 units)
L1 (1158) Slot 0:Mo09:00-10:50:Rm 1009, LSK Bldg (80)
L1 (1158) Slot 1:We09:00-10:50:Rm 1009, LSK Bldg (80)
L2 (1159) Slot 0:Mo12:00-13:50:Rm 1009, LSK Bldg (80)
L2 (1159) Slot 1:We12:00-13:50:Rm 1009, LSK Bldg (80)

The number of courses fetched is showed and the All Subject Search Button is available after all subject courses are scraped



Try to search with invalid term.

Trivial Team T-10: Course Scraper

Main

Backend

Filter

List

Timetable

All Subject Search

SFQ

Base URL

https://w5.ab.ust.hk/wcq/cgi-bin/

Term

1840

Subject

COMP

Search

Please note that during grading we will save the Base URL into another site and manually edit some data

Console

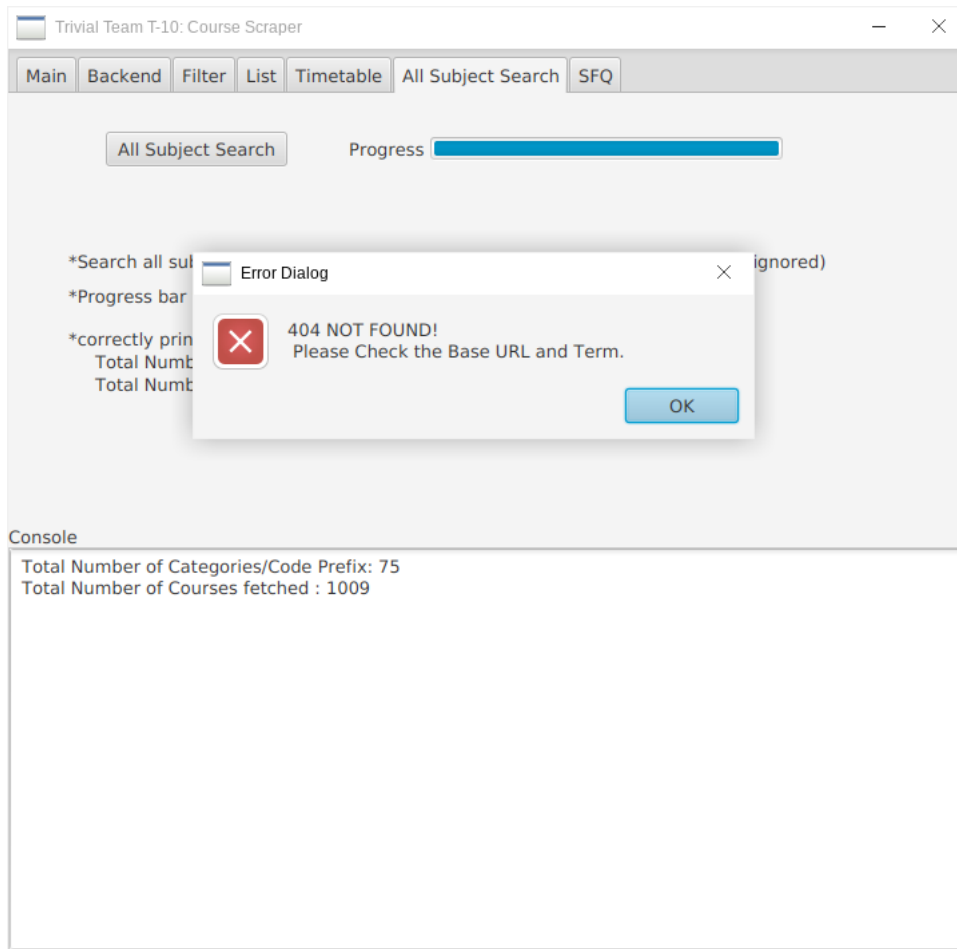
PPOL 6770 - Professional Development in Public Policy (1 unit)
T1 (4014)

RMBI 1010 - Risk Management in Society (3 units)
L1 (3665) Slot 0:Mo15:00-16:50:Rm 1410, Lift 25-26 (60)
T1 (3667) Slot 0:Mo10:30-11:20:Rm 4402, Lift 17-18
T2 (3669) Slot 0:Mo09:30-10:20:Rm 4402, Lift 17-18

RMBI 2001 - Academic and Professional Development in Risk Management and Business Intelligence (0 units)
T1 (3670)

RMBI 3110 - Introduction to Risk Management and Business Intelligence (3 units)
L1 (3671) Slot 0:Tu09:00-10:20:Rm 2304, Lift 17-18 (76)
L1 (3671) Slot 1:Th09:00-10:20:Rm 2304, Lift 17-18 (76)
T1 (3672) Slot 0:Fr13:30-14:20:Rm 4503, Lift 25-26 (64)

It will fail and show an error message.



Try to search with invalid term.

The screenshot shows a web application window titled "Trivial Team T-10: Course Scraper". It features a navigation bar with buttons: "Main", "Backend", "Filter", "List", "Timetable", "All Subject Search", and "SFQ". The "All Subject Search" button is active. Below the navigation bar, there are three input fields: "Base URL" with the value "https://testing.com/", "Term" with the value "1910", and "Subject" with the value "COMP". A "Search" button is located to the right of the "Subject" field. Below the input fields, a message states: "Please note that during grading we will save the Base URL into another site and manually edit some dat". At the bottom of the window is a "Console" panel displaying a list of course information:

- PPOL 5210 - Environmental Policy and Natural Resource Management (3 units)
L1 (1481) Slot 0:Mo13:30-16:20:Rm 2404, Lift 17-18 (81)
- PPOL 5230 - Technology, Innovation and Public Policy (3 units)
L1 (1482) Slot 0:We13:30-16:20:Rm 2404, Lift 17-18 (81)
- PPOL 5270 - Finance, Financial Crises and Economic Development (3 units)
L1 (1483) Slot 0:Th18:00-20:50:Lecture Theater H (69)
- PPOL 6100A - Ethics and Public Policy (3 units)
L1 (1484) Slot 0:Th13:30-16:20:Rm 5583, Lift 29-30 (80)
- PPOL 6770 - Professional Development in Public Policy (1 unit)
T1 (4014)

The console panel has a scrollbar on the right side.

It will fail and show an error message.

