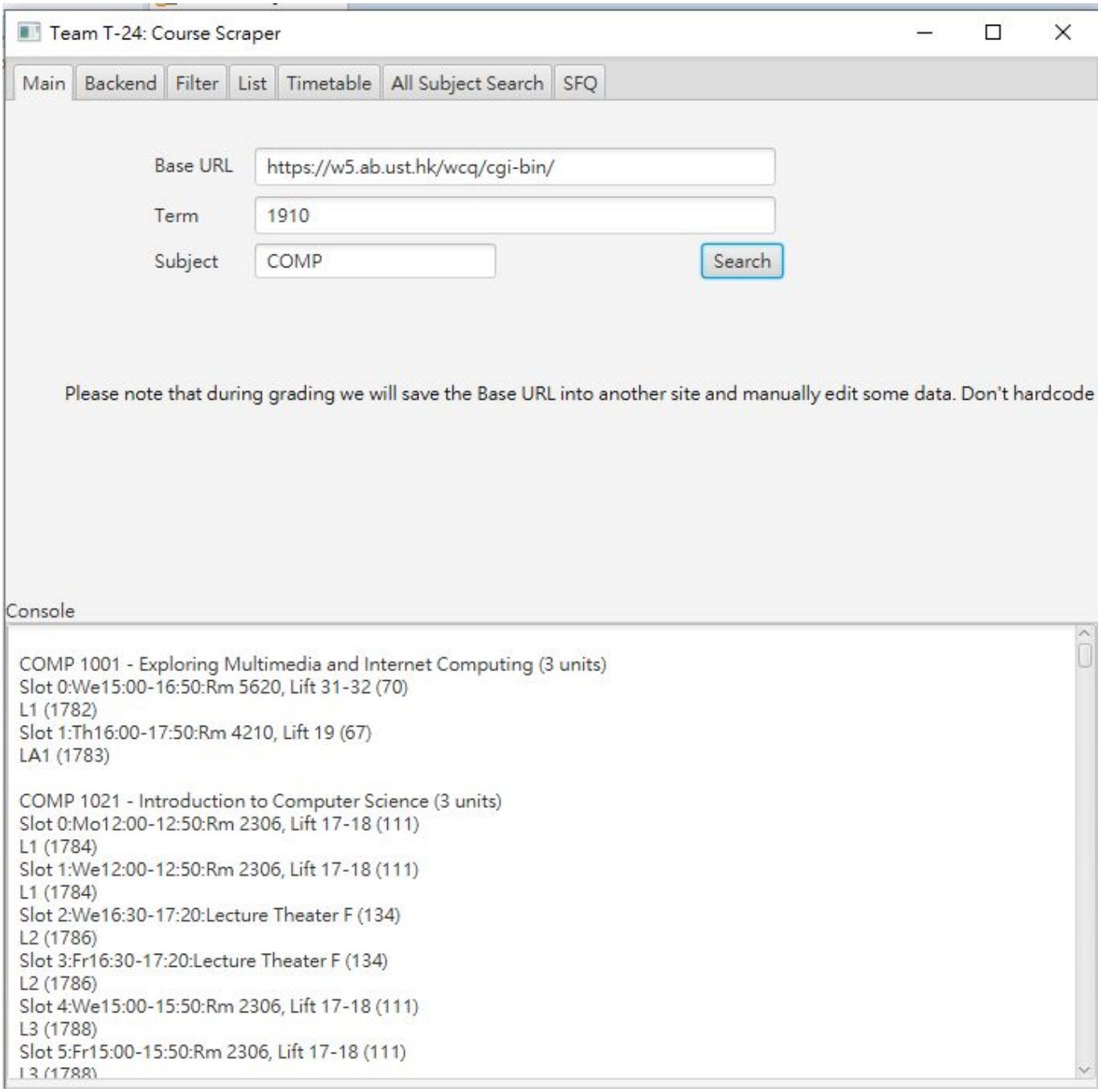
COMP3111
Software Engineering Team Project
Course Scraper
Activity 2 Submissions

Team Code	**T-24**
Team Members	CHONG Cheuk Hei (Tasks 1 & 5) LAW Kai Yuet (Tasks 2 & 3) LI Lok Yin (Tasks 4 & 6)

Sample Inputs and Outputs

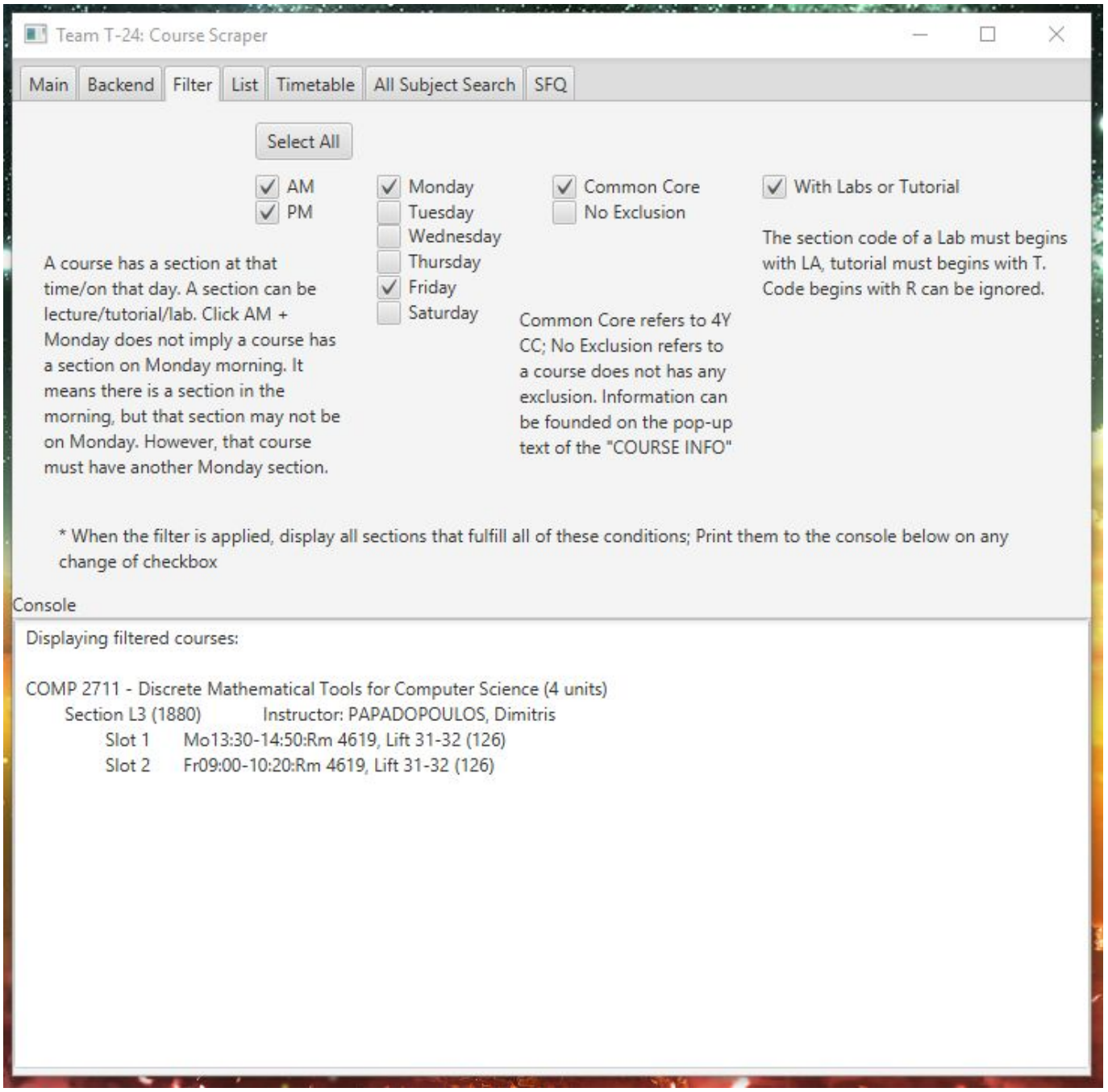
Task 1: Backend

Courses scraped: COMP courses from Term 1910 without filtering



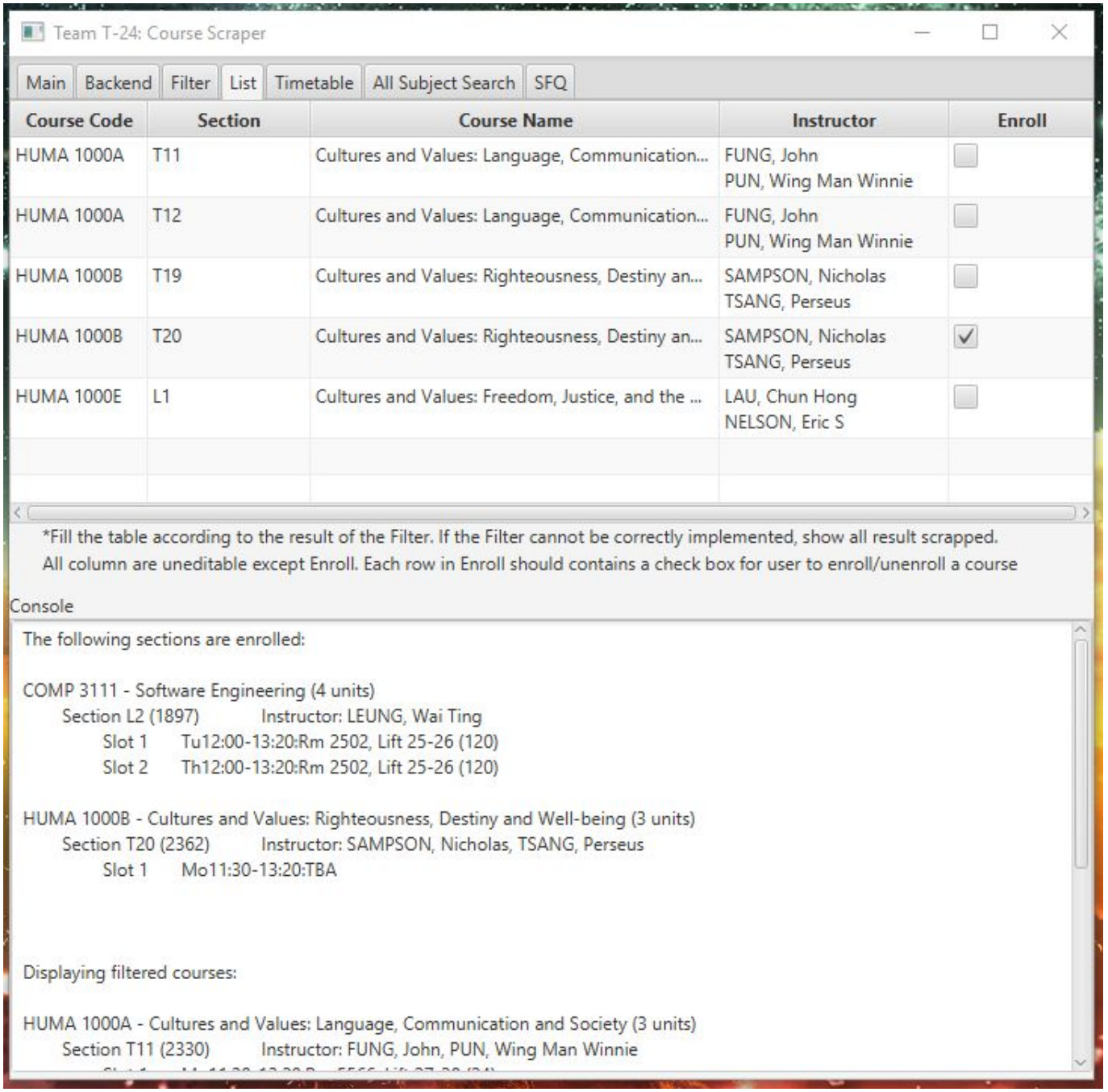
Task 2: Filter

Courses scraped: COMP courses from Term 1910



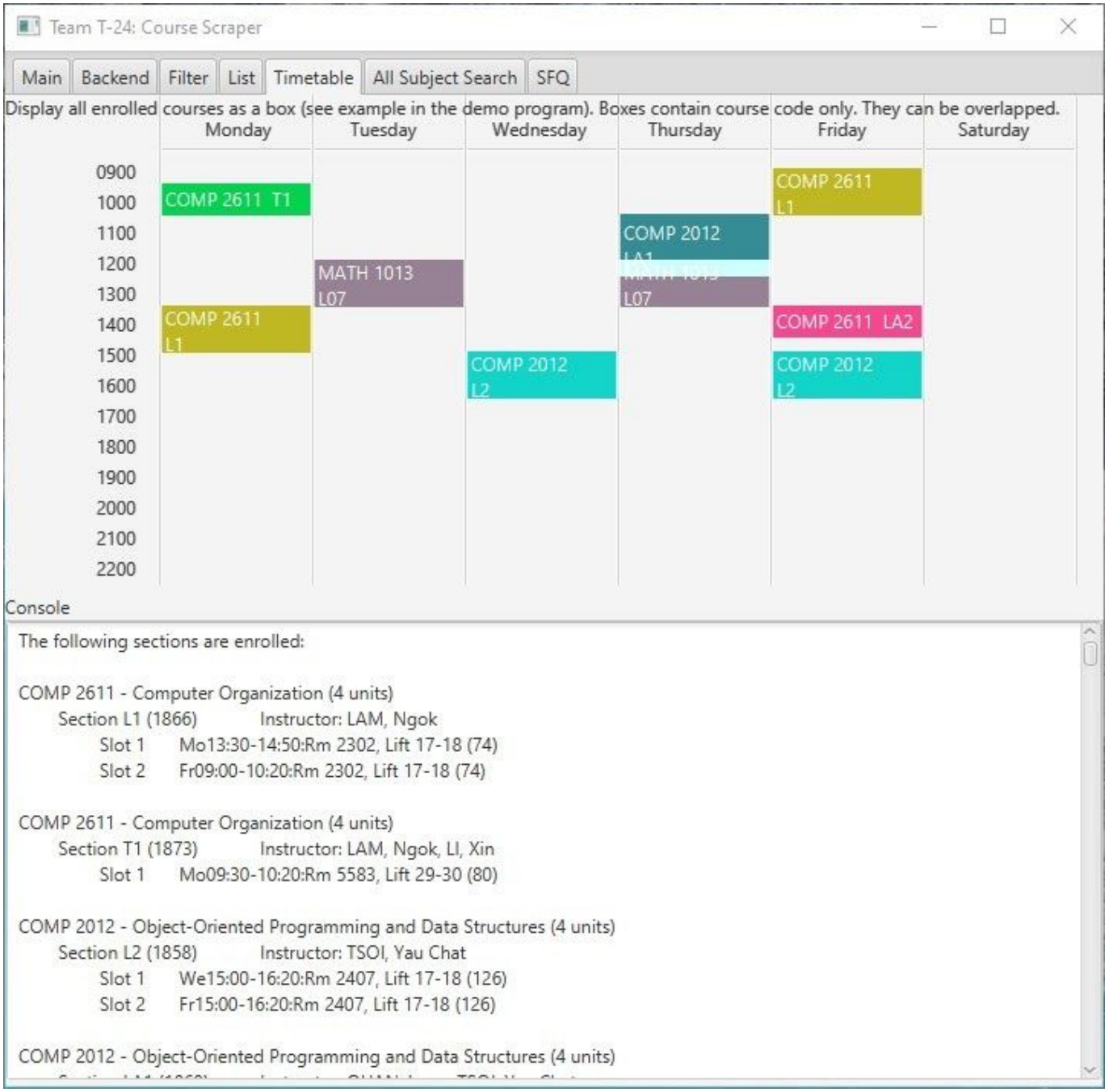
Task 3: List

Courses scraped: HUMA courses from Term 1910
Courses enrolled: COMP3111 L2 from Term 1910 (from a previous search)
Filters applied: AM, PM, Monday, Common Core



Task 4: Timetable

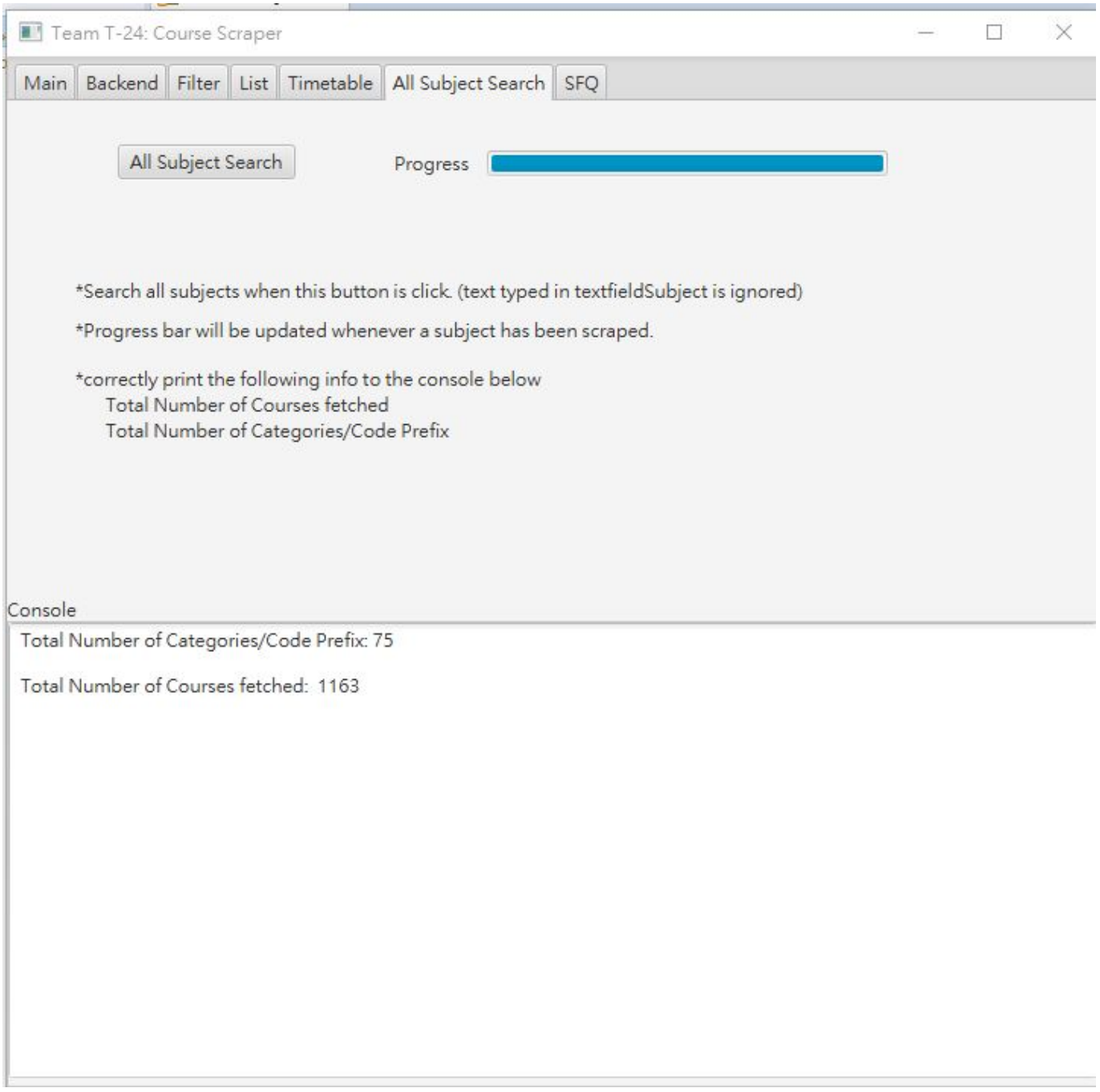
Courses enrolled: COMP2611 L1 (Mo 1330-1450, Fr 0900-1020), COMP2611 T1 (Mo 0930-1020),
COMP2611 LA2 (Fr 1330-1420), COMP2012 L2 (WeFr 1500-1620),
COMP2012 LA1 (Th 1030-1220) overlaps with MATH1013 L07 (TuTh 1200-1320)



Task 5: All Subject Search

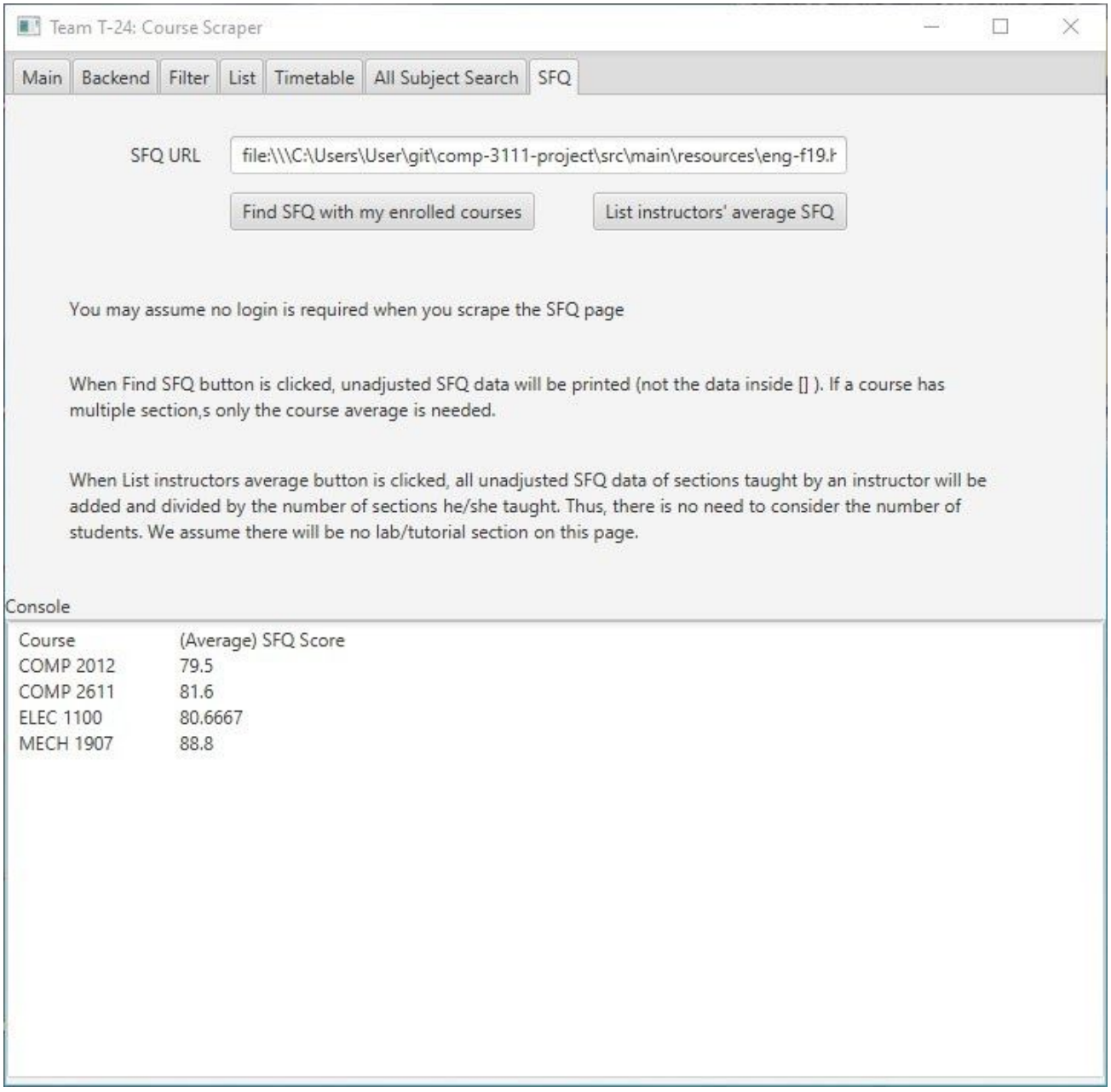
Subject scraped: ALL subjects available from Term 1910

Courses scraped: ALL courses from Term 1910

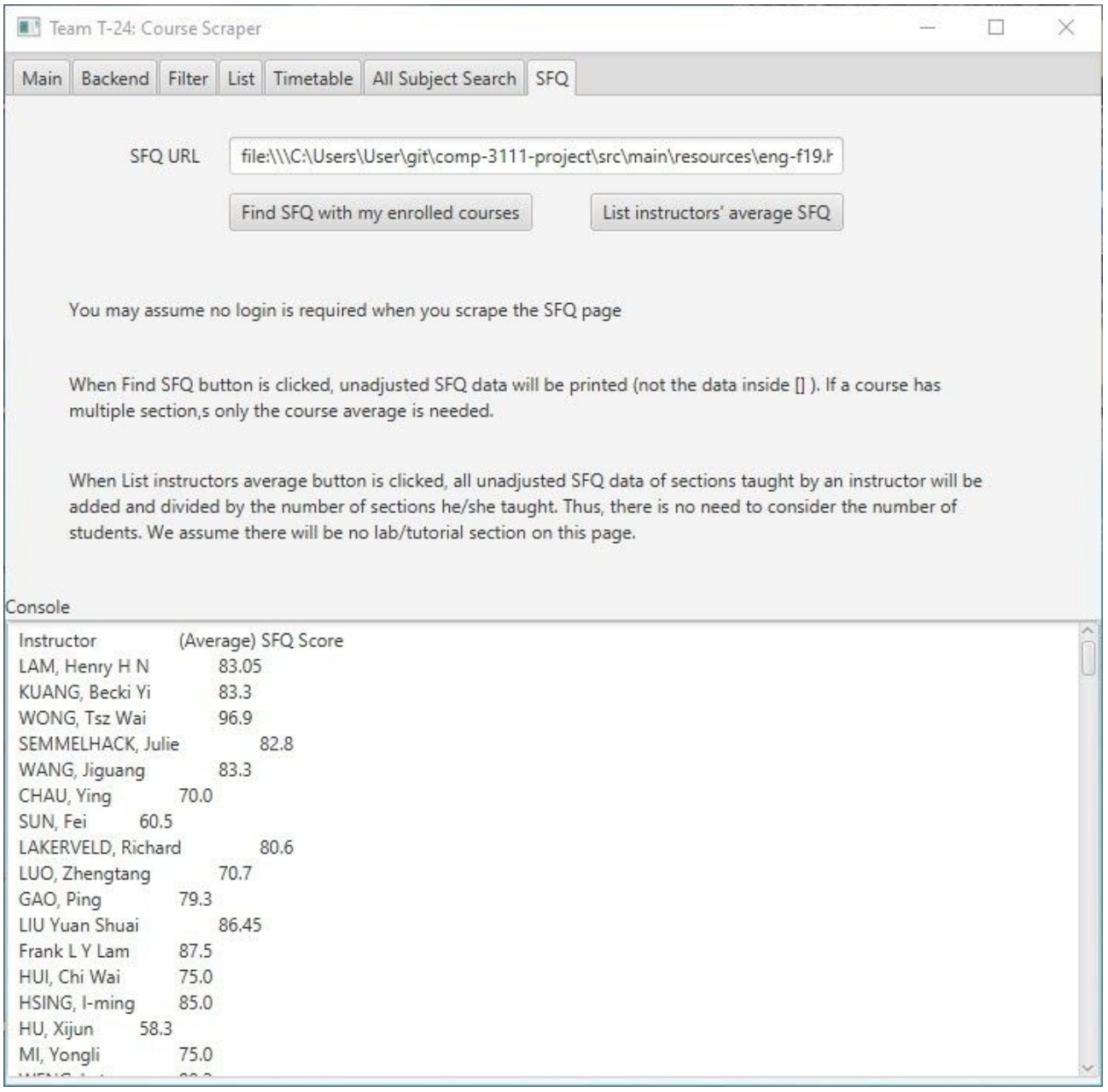


Tash 6: SFQ

Courses Enrolled: COMP2611 L1, COMP2012 L2, MECH1907 L1, ELEC1100 L2, COMP2012 LA3
SFQ URL: Local eng-f19.html file for testing (obtained from the SFQ website)
Action: Pressed Button “Find SFQ with my enrolled courses”



Action: Pressed Button “List Instructors’ average SFQ”



Minutes of the 1st Project Meeting

Date: 19 April 2020
Time: 15:30
Venue: Zoom meeting
Attendees: Thomas Chong, Ian Law, Justin Li
Secretary: Ian Law

1. **Progress report**

Name	Tasks	Total hours
Thomas Chong	● Studied Scraper class ● Drafted a set of entity classes	3
Ian Law	● Captured clarified user requirements (specifically about course-filtering) on Telegram ● Revised system requirement specifications	2
Justin Li	● Studied Scraper class ● Studied SFQ Survey Website structure	3

2. **Discussions of impediments and resolutions**
    a. Thomas, Ian and Justin all expressed their difficulties in focusing on the Project in the coming 2 weeks due to increased workload from other courses and extracurricular competitions. The team agreed on more relaxed goals for the time being.
    b. Ian expressed his concern over the team's risk of falling behind the schedule due to the relaxed development goals. The team agreed to adopt pair programming starting from the next meeting.

3. **Upcoming goals**

Name	Tasks
Thomas Chong	● Complete the implementation of Section class ● Draft the skeleton for the Instructor class and the modified Course class
Ian Law	● Draft the skeleton for a control class for filtering ● Study Controller class for manipulating UI elements
Justin Li	● Draft the skeleton for SFQScraper method in Scraper class

4. **Meeting adjournment and next meeting**
    There being no other businesses. The meeting adjourned at 16:10. The next meeting will be scheduled on 4 May at 20:00.

Minutes of the 2nd Project Meeting

Date: 4 May 2020
Time: 20:00
Venue: Skype meeting
Attendees: Thomas Chong, Ian Law, Justin Li
Secretary: Ian Law

1. **Progress report**

Name	Tasks	Total hours
Thomas Chong	● Completed the implementation of Section class ● Drafted the skeleton for the Instructor class and the modified Course class ● Drafted a part of the skeleton for SubjectScraper method in Scraper class ● Implemented sample code for manipulating Backend and All Subject Search tab in Controller class	6
Ian Law	● Drafted the skeleton for a control class for filtering ● Studied Controller class for manipulating UI elements ● Implemented sample code for manipulating Filter and List tab in Controller class ● Expanded Scrape method's functionality in Scraper class	9
Justin Li	● Drafted a part of the skeleton for SFQScrapper method in Scraper class ● Completed a part of a control class for timetable ● Implemented sample code for manipulating SFQ and Timetable tab in Controller class	7

2. **Discussions of impediments and resolutions**
    a. Justin reported difficulties in fetching <tr> HTML elements in Scraper class. Ian and Thomas agreed to do peer programming with Justin after the meeting to help implement his SFQScrapper method.
    b. Thomas reported difficulties in understanding the added user requirements in the Telegram. Ian agreed to serve as a "translator" to capture the project sponsor's requirements and parse them into implementation-faced "template" languages for easier understanding.
    c. Per last meeting's request, pair programming would be adopted after this meeting to accelerate our progress.

3. Upcoming goals

Name	Tasks
Thomas Chong	● Complete the implementation of all functionalities in the Backend tab ● Complete the implementation of all functionalities in the All Subject Search tab
Ian Law	● Complete the implementation of all functionalities in the Filter tab ● Complete the implementation of all functionalities in the List tab
Justin Li	● Complete the implementation of all functionalities in the SFQ tab ● Complete the implementation of all functionalities in the Timetable tab

4. Meeting adjournment and next meeting

There being no other businesses. The meeting adjourned at 21:15. The next meeting will be scheduled on 7 May at 22:00.

Minutes of the 3rd Project Meeting

Date: 7 May 2020
Time: 22:00
Venue: Skype meeting
Attendees: Thomas Chong, Ian Law, Justin Li
Secretary: Ian Law

1. **Progress report**

Name	Tasks	Total hours
Thomas Chong	● Completed the implementation of all functionalities in the Backend tab ● Completed the implementation of all functionalities in the All Subject Search tab	12
Ian Law	● Completed the implementation of all functionalities in the Filter tab ● Completed the implementation of all functionalities in the List tab ● Completed the documentation of all responsible tasks	17
Justin Li	● Completed the implementation of all functionalities in the SFQ tab ● Completed the implementation of all functionalities in the Timetable tab ● Completed a part of the documentation of responsible tasks	14

2. **Discussions of impediments and resolutions**
    a. Thomas expressed his difficulty documenting his tasks due to the approaching deadlines from other courses. He has agreed to finish his documentation by 9 May, after his deadline.

3. **Upcoming goals**

Name	Tasks
Thomas Chong	● Complete the implementation of all functionalities in the Backend tab ● Complete the implementation of all functionalities in the All Subject Search tab
Ian Law	● Complete the implementation of all functionalities in the Filter tab ● Complete the implementation of all functionalities in the List tab
Justin Li	● Complete the implementation of all functionalities in the SFQ tab ● Complete the implementation of all functionalities in the Timetable tab

4. **Meeting adjournment and next meeting**
    There being no other businesses. The meeting adjourned at 21:15.

Burndown Charts and Gantt Charts

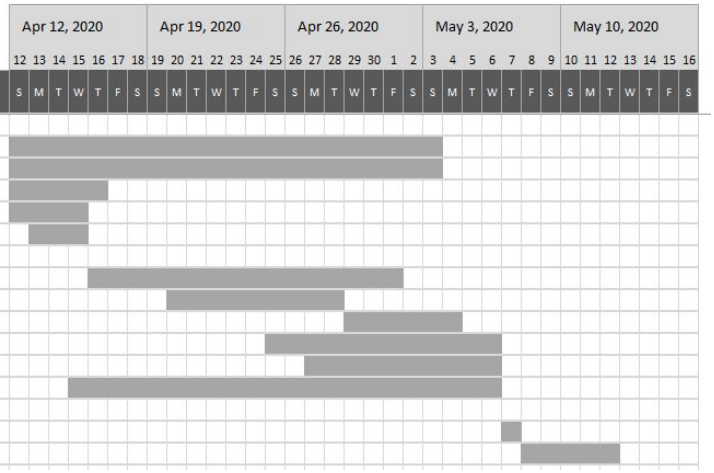
Project Gantt Chart

COMP3111 Project: Course Scrapper

Project Start: 4/12/2020

Display Week: 1

TASK	PROGRESS	START	END
Requirements capture, analysis and design			
Capture and parse user requirements on Telegram	100%	4/12/20	5/3/20
Revise user requriement specifications	100%	4/12/20	5/3/20
Design data structure	100%	4/12/20	4/16/20
Design SFQ structure	100%	4/12/20	4/15/20
Design timetable structure	100%	4/13/20	4/15/20
Implementation, unit testing and documentation			
Task 1 - Backend	100%	4/16/20	5/1/20
Task 2 - Filter	100%	4/20/20	4/28/20
Task 3 - List	100%	4/29/20	5/4/20
Task 4 - Timetable	100%	4/25/20	5/6/20
Task 5 - All Subject Search	100%	4/27/20	5/6/20
Task 6 - SFQ	100%	4/15/20	5/6/20
System testing and documentation			
Blackbox testing	100%	5/7/20	5/7/20
Documentation review	100%	5/8/20	5/12/20



Thomas Chong's Burndown Chart and Gantt Chart

Burndown Chart

Typical Student

COMP 3111: Sprint 2 Backlog and Burndown Chart

Student Id: 20600648

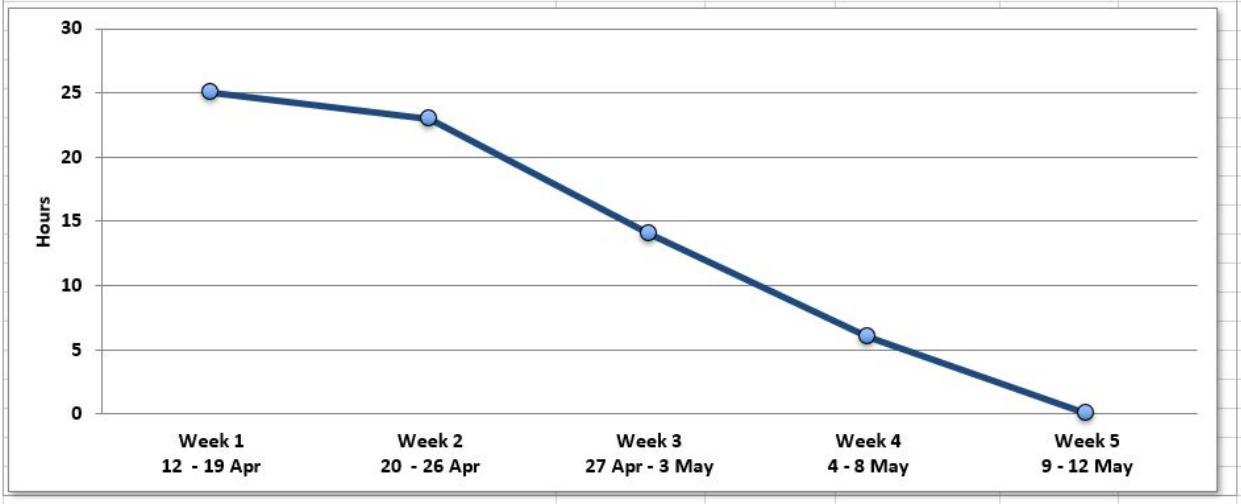
Sprint Tasks (Sprint Backlog)	Week 1 12 - 19 Apr	Week 2 20 - 26 Apr	Week 3 27 Apr - 3 May	Week 4 4 - 8 May	Week 5 9 - 12 May
Understand and capture the user requirement	1	0	0	0	0
Design data structure	1	0	0	0	0
Implement data structure	2	2	0	0	0
Study Scraper class used function in the skleton code	2	2	0	0	0
Modifty Scraper class to get more information for class	2	2	0	0	0
Implement Search button function	3	3	0	0	0
Implement All Subject Search First Click	4	4	4	0	0
Implement All Subject Search Second Click	2	2	2	0	0
Unit Testing on Search related functionalities	2	2	2	0	0
Unit Testing on All Subject Search related functionalitie	2	2	2	2	0
Documentation on Search related functionalities	2	2	2	2	0
Documentation on All Subject Search related functiona	2	2	2	2	0

Typical Student

COMP 3111: Sprint 2 Backlog and Burndown Chart

Student Id: 20600648

Total hours	25	23	14	6	0



Gantt Chart

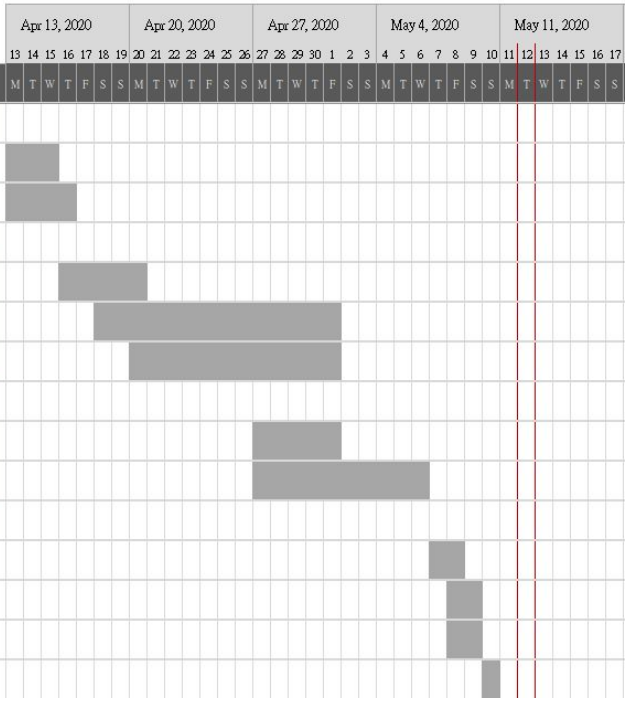
COMP3111 Project: Course Scrapper

CHONG, Cheuk Hei
20600648

SIMPLE GANTT CHART by Vertex42.com
https://www.vertex42.com/ExcelTemplates/simple-gantt-chart.html

Sun, 4/12/2020

1



TASK	PROGRESS	START	END
Requirements capture, analysis and design			
Understand and capture the user requirement	100%	4/12/20	4/15/20
Design data structure	100%	4/12/20	4/16/20
Task 1: Backend			
Study Scraper class used function in the skleton code	100%	16-Apr-20	20-Apr-20
Modifty Scraper class to get more information for class	100%	18-Apr-20	01-May-20
Implement Search button function	100%	20-Apr-20	01-May-20
Task 5: All Subject Search			
Implement All Subject Search First Click	100%	27-Apr-20	1-May-20
Implement All Subject Search Second Click	100%	27-Apr-20	6-May-20
Phase 4 Title			
Unit Testing on Search related functionalities	100%	7-May-20	8-May-20
Unit Testing on All Subject Search related functionalities	100%	8-May-20	9-May-20
Documentation on Search related functionalities	100%	8-May-20	9-May-20
Documentation on All Subject Search related functionalities	100%	10-May-20	10-May-20

Ian Law's Burndown Chart and Gantt Chart

Burndown Chart

Typical Student

COMP 3111: Sprint 2 Backlog and Burndown Chart

Student Id: 20603195

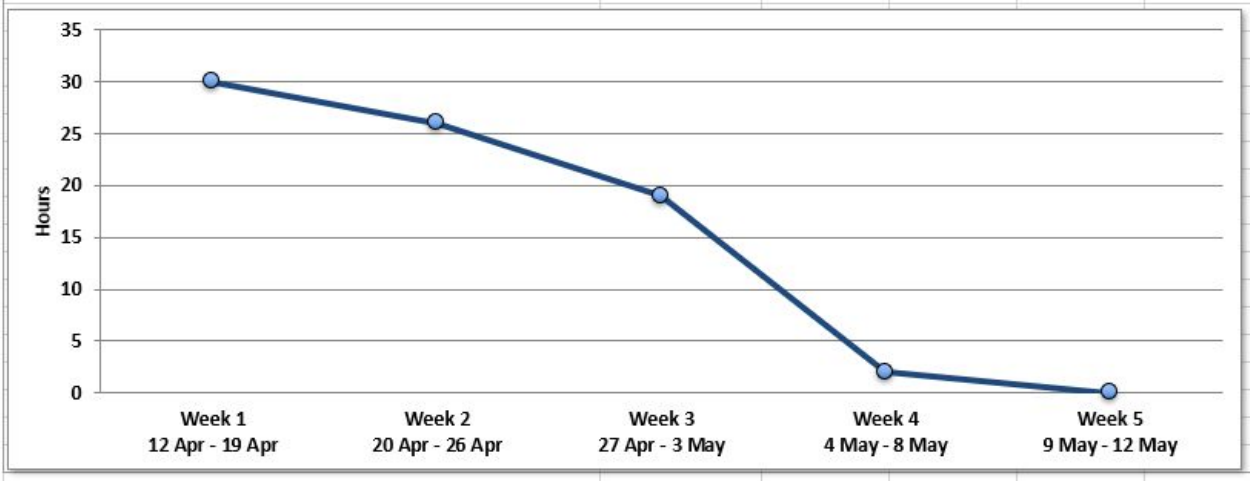
Sprint Tasks (Sprint Backlog)	Week 1 12 Apr - 19 Apr	Week 2 20 Apr - 26 Apr	Week 3 27 Apr - 3 May	Week 4 4 May - 8 May	Week 5 9 May - 12 May
Capture and parse user requirements on Telegram	1	0	1	0	0
Revise user requirement specifications	1	0	1	0	0
Implement data structure	2	2	0	0	0
Study JavaFX's usage	2	1	0	0	0
Study Scraper class skeleton's usage	2	1	0	0	0
Modify Scraper class to support data structure	2	2	0	0	0
Implement Filter tab user interface	1	1	0	0	0
Implement Filter controller class	4	4	2	0	0
Unit test on Filter's functionalities	2	2	2	0	0
Documentation on Filter's functionalities	2	2	2	1	0
Implement List tab user interface	3	3	3	0	0
Implement List controller class	4	4	4	0	0
Unit test on List's functionalities	2	2	2	0	0
Documentation on List's functionalities	2	2	2	1	0

Typical Student

COMP 3111: Sprint 2 Backlog and Burndown Chart

Student Id: 20603195

Total hours	30	26	19	2	0



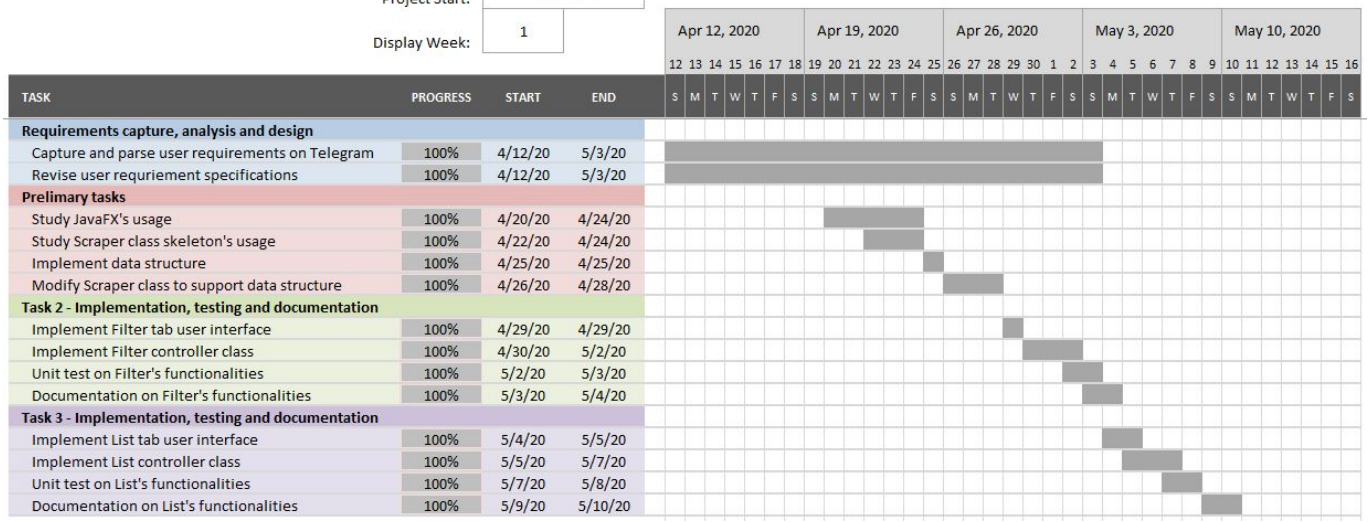
Gantt Chart

COMP3111 Project: Course Scrapper

Ian LAW Kai Yuet
(20603195)

Project Start: 4/12/2020

Display Week: 1



TASK	PROGRESS	START	END
Requirements capture, analysis and design			
Capture and parse user requirements on Telegram	100%	4/12/20	5/3/20
Revise user requriement specifications	100%	4/12/20	5/3/20
Prelimary tasks			
Study JavaFX's usage	100%	4/20/20	4/24/20
Study Scraper class skeleton's usage	100%	4/22/20	4/24/20
Implement data structure	100%	4/25/20	4/25/20
Modify Scraper class to support data structure	100%	4/26/20	4/28/20
Task 2 - Implementation, testing and documentation			
Implement Filter tab user interface	100%	4/29/20	4/29/20
Implement Filter controller class	100%	4/30/20	5/2/20
Unit test on Filter's functionalities	100%	5/2/20	5/3/20
Documentation on Filter's functionalities	100%	5/3/20	5/4/20
Task 3 - Implementation, testing and documentation			
Implement List tab user interface	100%	5/4/20	5/5/20
Implement List controller class	100%	5/5/20	5/7/20
Unit test on List's functionalities	100%	5/7/20	5/8/20
Documentation on List's functionalities	100%	5/9/20	5/10/20

Justin Li's Burndown Chart and Gantt Chart

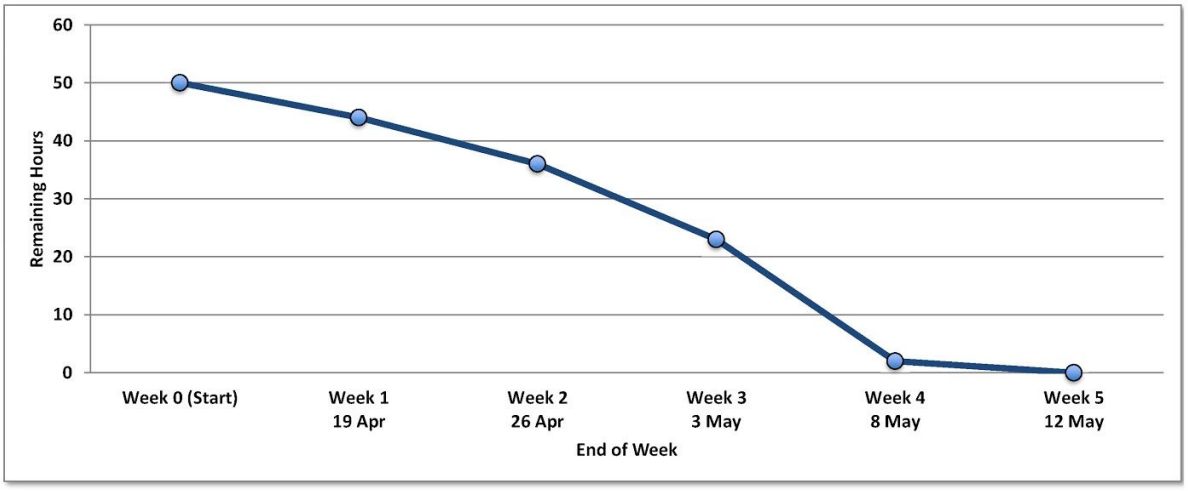
Backlog and Burndown Chart

LI, Lok Yin (Justin) **COMP 3111: Sprint 2 Backlog and Burndown Chart** Student ID: 20409850

Sprint Tasks (Sprint Backlog)	Week 1 12 Apr - 19 Apr	Week 2 20 - 26 Apr	Week 3 27 Apr - 3 May	Week 4 4 - 8 May	Week 5 9 - 12 May
Design implementation structure for SFQ	1	0	0	0	0
Implement SFQ class for data storage	1	1	0	0	0
Study Scraper class usage and Xpath structure	2	1	1	0	0
Implement scrapeSFQ function for enrolled classes	0	2	4	2	0
Modify controller for enrolled classes SFQ search	0	1	0	1	0
Implement scrapeInstructorSFQ function	0	1	3	3	0
Modify controller for instructor SFQ search	0	0	0	1	0
Design implementation structure for Timetable	2	0	0	0	0
Implement TimetableBlock class for block creation	0	1	3	4	0
Update SFQ controller with enrolledCourseList	0	0	0	1	0
Unit test on SFQ functionalities	0	0	0	3	0
Documentation of SFQ class functionalities	0	0	0	1	1
Modify List controller class for timetable update	0	1	2	4	0
Unit test on TimetableBock functionalities	0	0	0	1	0
Documentation of TimetableBlock class functionalities	0	0	0	0	1

LI, Lok Yin (Justin) **COMP 3111: Sprint 2 Backlog and Burndown Chart** Student ID: 20409850

Total hours	6	8	13	21	2

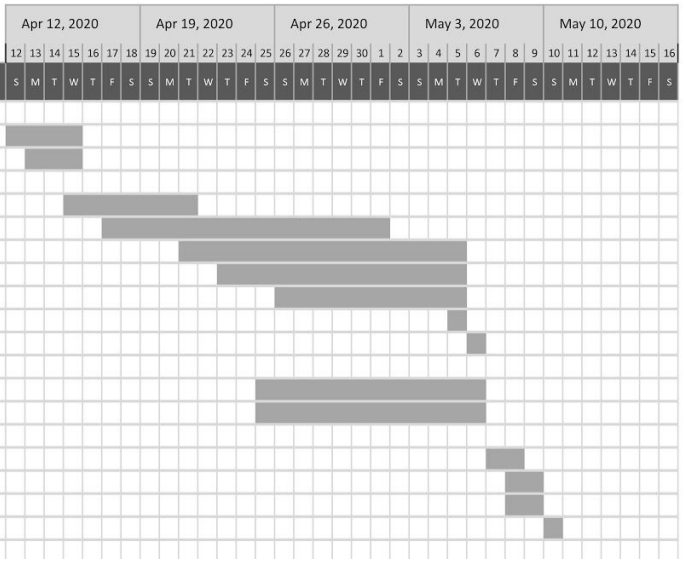


Gantt Chart

COMP3111 Project: Course Scraper

LI, Lok Yin (Justin)
20409850

Sun, 4/12/2020
1



TASK	PROGRESS	START	END
Design Implementation Structure			
Design SFQ Structure	100%	12/4/20	15/4/20
Design Timetable Structure	100%	13/4/20	15/4/20
Task 6: SFQ			
Implement SFQ Class for data storage	100%	15/4/20	21/4/20
Study Scraper class usage and Xpath structure	100%	17/4/20	1/5/20
Implement scrapeSFQ function for enrolled classes	100%	21/4/20	5/5/20
Modify controller for enrolled classes SFQ search	100%	23/4/20	5/5/20
Implement scrapeInstructorSFQ function	100%	26/4/20	5/5/20
Modify controller for instructor SFQ search	100%	5/5/20	5/5/20
Update SFQ controller with enrolledCourseList	100%	6/5/20	6/5/20
Task 4: Timetable			
Implement TimetableBlock class for block creation	100%	25/4/20	6/5/20
Modify List controller class for timetable update	100%	25/4/20	6/5/20
Testing and Documentation			
Unit test on SFQ functionalities	100%	7/5/20	8/5/20
Documentation of SFQ class functionalities	100%	8/5/20	9/5/20
Unit test on TimetableBock functionalities	100%	8/5/20	9/5/20
Documentation of TimetableBlock class functionalities	100%	10/5/20	10/5/20