

CodeCampX - User Guide

1. Welcome to CodeCampX	3
1.1. Legend	3
1.2. A Quick Look at CodeCampX	3
2. Quick Start	4
3. Components	4
3.1. Students	5
3.2. Staffs	5
3.3. Courses	5
3.4. Finances	5
3.5. Assignments	5
4. Key Features	5
4.1. Convenience	5
4.2. Security	5
4.3. Efficiency	6
5. Commands	6
5.1. General	6
5.1.1. Viewing help : help	6
5.1.2. Exiting the program : exit	6
5.1.3. Undo Command: undo	6
5.1.4. Redo Command: redo	9
5.2. Assigning/Unassigning -TYPE- to a Course : assign or unassign respectively	10
5.2.1. Assign a Student to a Course : assign or unassign respectively	10
5.2.2. assign/unassign Teacher to/from a Course	11
5.2.3. Add An Assignment to a Course : assign or unassign respectively	12
5.3. Mark a Student's Assignment as Done/Undone	12
5.4. Select a Student/Staff/Course : select or simply click the bar	13
5.4.1. Select a Student	14
5.4.2. Select Assignment belonging to the Course of a Student	14
5.4.3. Select a Staff	14
5.4.4. Select a Course	14
5.4.5. Select Assignment belonging to the Student of a Course:	14
5.4.6. Select a Finance	14
5.4.7. Select an Assignment	14
5.5. Switch between tabs : [CTRL] + [UP ARROW] , [CTRL] + [DOWN ARROW] m, s, t, c, f, a	15
5.5.1. Navigate through your command history: [UP ARROW] or [DOWN ARROW]	15
5.6. Saving the data	15
5.7. Clearing all the data	15
5.8. Student	15

5.8.1. Add a student: <code>add-student</code>	16
5.8.2. Remove a student: <code>delete-student</code>	16
5.8.3. Locating items by name: <code>find-student</code>	16
5.8.4. List all students: <code>list-student</code>	17
5.8.5. Edit information about a student: <code>edit-student</code>	17
5.9. Staff	17
5.9.1. Add a staff: <code>add-staff</code>	18
5.9.2. Remove a staff: <code>delete-staff</code>	18
5.9.3. Locating items by name: <code>find-staff</code>	19
5.9.4. List all staffs: <code>list-staff</code>	19
5.9.5. Edit information about a staff: <code>edit-staff</code>	19
5.10. Course	20
5.10.1. Add a course: <code>add-course</code>	20
5.10.2. Remove a course: <code>delete-course</code>	20
5.10.3. Edit information about a course: <code>edit-course</code>	21
5.10.4. Locating items by name: <code>find-course</code>	21
5.10.5. List all courses: <code>list-course</code>	22
5.10.6. Edit information about a course: <code>edit-course</code>	22
5.11. Finance	22
5.11.1. Add a finance: <code>add-finance</code>	22
5.11.2. Remove a finance: <code>delete-finance</code>	23
5.11.3. Edit a finance	24
5.11.4. Locating items by name: <code>find-finance</code>	24
5.11.5. List all finances: <code>list-finance</code>	24
5.11.6. Get total earnings: <code>earnings</code>	25
5.11.7. Get total expenses: <code>expenses</code>	25
5.12. Assignment	25
5.12.1. Add an assignment: <code>add-assignment</code>	25
5.12.2. Delete an assignment: <code>delete-assignment</code>	25
5.12.3. Edit an assignment: <code>edit-assignment</code>	26
5.12.4. Locating items by name: <code>find-assignment</code>	26
5.13. Upcoming Features	27
5.13.1. Add registration <code>[coming in v2.0]</code>	27
5.13.2. Creating user role <code>[coming in v2.0]</code>	27
5.13.3. Editing user role <code>[coming in v2.0]</code>	27
5.13.4. Deleting user role <code>[coming in v2.0]</code>	27
6. Frequently Asked Questions (FAQ)	27
7. Command Summary	28

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1. Welcome to CodeCampX

Code Camp X (CCX) is for those who **prefer to use a desktop app to manage the administrative tasks of running a coding camp**. More importantly, CCX is **optimized for those who prefer to work with a Command Line Interface (CLI)** while still having the benefits of a Graphical User Interface (GUI). If you can type fast, CCX can allow you to manage your camp's administrative tasks faster than traditional GUI apps. Interested? Jump to the [Section 2, "Quick Start"](#) to get started. Enjoy!

1.1. Legend

The following 3 callouts will be used throughout the documentation which you may wish to pay attention to as it may contain important details:

NOTE	Just for your info, do not be alarmed. Be sure to read these notes as it might contain some important information.
TIP	Perhaps something can be done using another approach, but it is up to you to decide. Tips are often not important and can be safely ignored.
WARNING	Some things might go wrong if you are not careful, or did not follow the instructions correctly. You are strongly advised to read whatever is in this block.

1.2. A Quick Look at CodeCampX

CodeCampX's user interface is split into a few sections. These sections are highlighted in the image below.

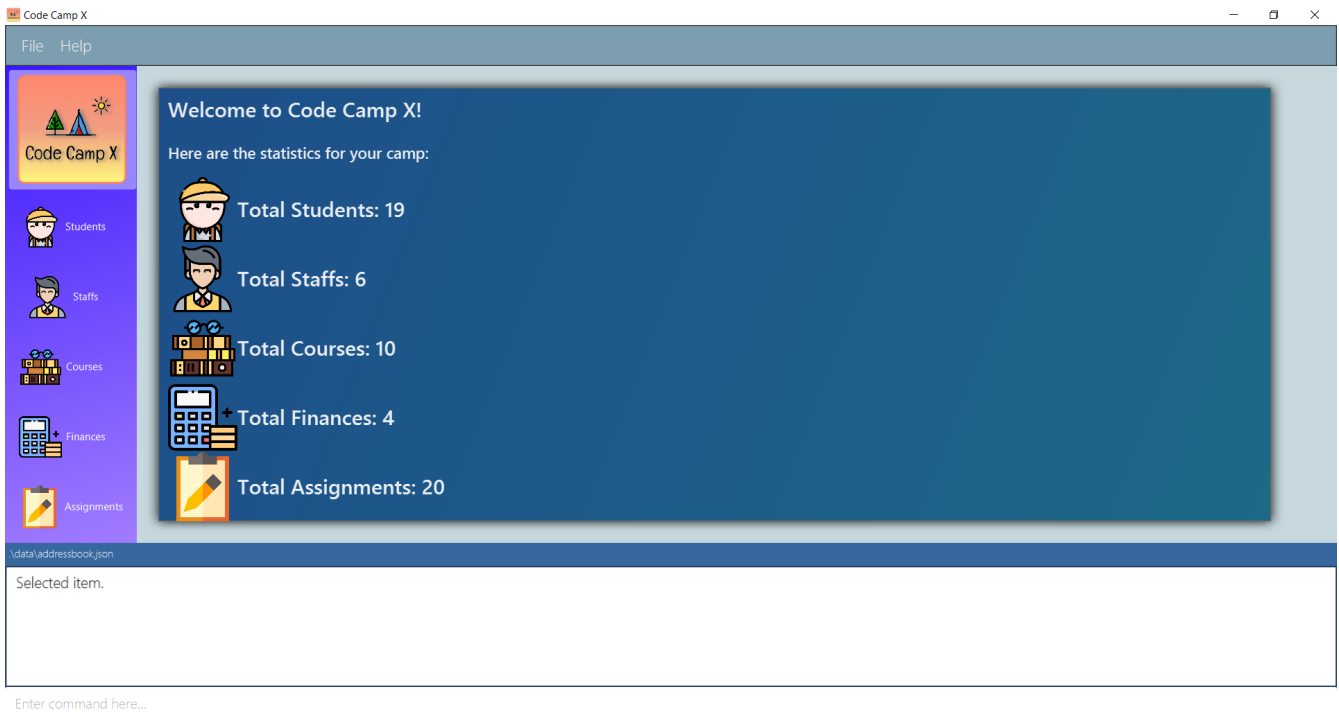


Figure 1. Quick Overview of CodeCampX.

Let's get started!

2. Quick Start

Follow this installation guide to get **CodeCampX** up and running on your computer.

1. Ensure you have Java version **9** or later installed in your Computer.

NOTE

- If you are unsure which Java version is installed, you may refer to this [link](#).
- You may install the current version of Java [here](#).

1. Download the latest version [here](#).
2. Copy the file to the folder you want to use as the home folder.
3. Double-click the file to start the app. The GUI should appear in a few seconds.
4. Type the command in the command box and press **Enter** to execute it.
e.g. typing **help** and pressing **Enter** will open the help window.
5. Some example commands you can try:
 - **help** : Opens up the help page
 - **exit** : Exits the application
6. Refer to [Section 5, "Commands"](#) for details of each command.

3. Components

CodeCampX consists of five core components: Students, Staffs, Courses, Finances, Assignments

3.1. Students

You can manage the students by assigning them to courses, and ensuring that they have paid for their courses.

3.2. Staffs

You can manage the staffs by providing information such as the phone number and email address. This is critical as staffs are the main point of contact during an emergency. You can keep track of which teacher staffs you have paid for teaching a course by checking via Finances.

3.3. Courses

You can keep track of the ongoing courses in your Coding Camp. Each course will have an assigned teacher, as well as a list of assigned students. The course fee should also be specified.

3.4. Finances

The built-in Sales Management component in CodeCampX provides you with the tools you will need to keep track of financial records efficiently. Several analytical features are also incorporated to assist you in financial decision-making and devising marketing strategies.

3.5. Assignments

You can keep track of the available assignments of the various students or courses through this functionality. Additionally, the progress of the assignments can be viewed for the course of the student (In Student Tab) or the student of a course (In Course Tab).

4. Key Features

4.1. Convenience

CodeCampX is an integrated application that will provide you with the utmost convenience and tools you will need to manage your Coding Camps. It allows you to:

- Export data to `.json` (default) or Excel file `[coming in v2.0]`.

4.2. Security

We understand that digital security is your biggest concern. **CodeCampX** is capable of securing your restaurants' data by:

- Encrypting all data using state of the art encryption scheme `[coming in v2.0]`.
- Providing accountability through logging of system events.

4.3. Efficiency

Time is money. **CodeCampX** ensures that the application will:

- Load within 5 seconds.
- Execute commands within split of a second and update the GUI almost instantaneously.

5. Commands

CodeCampX is jam-packed with features and it may be daunting for new users. The subsequent sections of the user guide provides a step by step walk-through of all the commands **CodeCampX** has to offer.

Do read our short explanation about Command Format below so that the subsequent portions of this section will make sense to you.

Command Format

- Words in **UPPER_CASE** are the parameters to be supplied by the user e.g. in **add-student n/STUDENT_NAME**, **STUDENT_NAME** is a parameter which can be used as **add-student n/Bob**.
- Items in square brackets are optional e.g **n/STUDENT_NAME [t/TAG]** can be used as **n/Bob t/loyal** or as **n/Bob**.
- Items with **...** after them can be used multiple times including zero times e.g. **[t/TAG]...** can be used as (i.e. 0 times), **t/loyal**, **t/10years** **t/new** etc.
- Parameters can be in any order e.g. if the command specifies **cid/COURSE_ID tid/TEACHER_ID**, **tid/TEACHER_ID cid/COURSE_ID** is also acceptable.

5.1. General

The commands in this section does not tie to any of the 5 components.

5.1.1. Viewing help : **help**

Opens up the help window. Very useful if you are a new user.

Format: **help**

5.1.2. Exiting the program : **exit**

Exits the program.

Format: **exit**

5.1.3. Undo Command: **undo**

Set the app state back to the most recent undoableCommand.

NOTE

See the full list of undoable commands: all edit/add/delete/assign/unassign/done/undone commands.

Examples:




- `find-student hieu`
`undo`

This will fail because `find-student` is not an `undoableCommand`.

- `delete-student 35853`
`undo`

Undo the delete command of student and add the student back at the previous relative ordering too.

Illustration:

Students	
	<div>1. Ivan</div> <div>Student ID: 73480</div>
	<div>2. Hieu</div> <div>Student ID: 35853</div>
	<div>3. ShengXue</div> <div>Student ID: 12421</div>

After `delete-student 35853`

Students



1. Ivan

Student ID: 73480






2. ShengXue

Student ID: 12421

After **undo**:

Students

	1. Ivan Student ID: 73480
	2. Hieu Student ID: 35853
	3. ShengXue Student ID: 12421

5.1.4. Redo Command: redo

Reverses the most recent **undo** command, but will fail if the most recent command was not the **undo** command or **redo** command

Examples:

- `delete-student 35853`
`undo`
`redo`

Successfully delete the student, then add the student back with **undo**, then delete student again with **redo**

- `find-student hieu`
`redo`

redo fails because no **undo** command previously

- `delete-student 35853`
`undo`
`find-student hieu`
`redo`

This **redo** also fails because the most recent command is not **undo** or **redo**

Format: **undo** or **redo**

5.2. Assigning/Unassigning -TYPE- to a Course : **assign** or **unassign** respectively

5.2.1. Assign a Student to a Course : **assign** or **unassign** respectively

Adds the Student ID to the Course ID specified.

Format: **assign** cid/COURSEID sid/STUDENTID

Example: **assign** cid/829 sid/33

Removes the Student ID from the Course ID specified.

Format: **unassign** cid/COURSEID sid/STUDENTID


Example: **unassign** cid/829 sid/33

NOTE


When a student is assigned to a course, a progress will be created for the student for every assignment of the course. This progress tracks whether the student has completed the specific assignment (Done) or not (Not Done)


In Student Tab, Under Selected Student and Assigned Courses Panel, after assigning student to course, it can be seen that the progresses have been added for every assignment in the course. The Student's progresses can be tracked by specific assignment status Done/ Not done. Total done progresses can be viewed under "Number of progress done" field.

Selected Student

**1. John Doe**
Student ID: 76370
Assigned Courses: [74307]

Assigned Courses

**1. CS2103 Software Engineering**
Course ID: 74307
Course Fee: 1000
Assigned Staff: 68312
Assigned Students: [76370]
Assigned Assignments: [68757, 43834]
Number of Done Progress: 0

**Student ID: 76370**
Assignment ID:68757
Status: Not Done


**Student ID: 76370**
Assignment ID:43834
Status: Not Done

Figure 2. Selected Student and Assigned Courses Panel. Shows ID and details of assigned Courses and Assignments.

Student's details and Assigned Assignments for this courses can also be viewed under Course Tab.

Selected Course

1. CS2103 Software Engineering

Course ID: 74307
Course Fee: 1000
Assigned Staff: 68312
Assigned Students: [76370]
Assigned Assignments: [68757, 43834]

Assigned Students

1. John Doe

Student ID: 76370
Assigned Courses: [74307]
Number of Done Progress: 0

Student ID: 76370
Assignment ID: 68757
Status: Not Done

Student ID: 76370
Assignment ID: 43834
Status: Not Done

Figure 3. Selected Course and Assigned Students Panel. Shows ID and details of assigned Students and their Assignments.

5.2.2. assign/unassign Teacher to/from a Course

Adds the Teacher ID to the Course ID specified.

Format: **assign** cid/COURSEID tid/TEACHERID

Example: **assign** cid/829 tid/21

When a teacher is assigned to a course, the teacher's ID is added to course and course's ID is added to teacher. In Selected Staff Tab, it can be seen that a course ID is added under "Assigned Courses" and the course can be viewed in Assigned Courses Tab.

Selected Staff

1. Kim Hyeongcheol

Staff ID: 68312
Staff Type: Teacher
Phone Number: 95629456
Address: Kent Ridge
Email Address: kim@u.nus.edu
Salary: \$3000
Assigned Courses: [74307]

Assigned Courses

1. CS2103 Software Engineering

Course ID: 74307

Figure 4. Selected Staff and Assigned Courses Panel. Shows ID and details of assigned Courses.

In Selected Course Tab, it can be seen that a staff ID is added under "Assigned Staff".

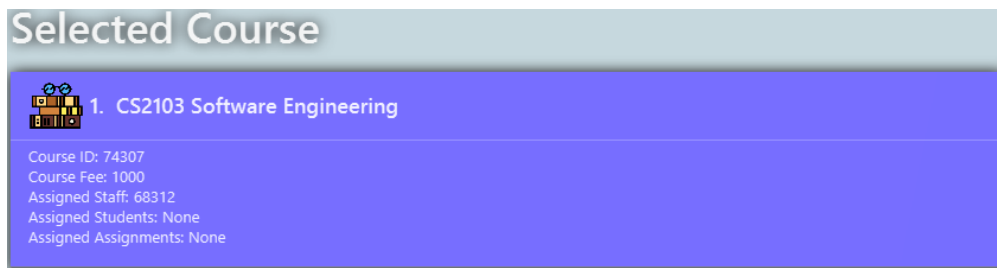


Figure 5. Selected Staff and Assigned Courses Panel. Shows ID and details of assigned Courses.

Removes the Teacher ID from the Course ID specified.

Format: `unassign cid/COURSEID tid/TEACHERID`

Example: `unassign cid/829 tid/21`

When a teacher is unassigned to a course, the teacher's ID is removed from course and course's ID is removed from teacher. In Selected Staff Tab, after unassign Command, the course's ID and details no longer appears.

5.2.3. Add An Assignment to a Course : `assign` or `unassign` respectively

Adds the Assignment ID to the Course ID specified.

Format: `assign cid/COURSEID aid/ASSIGNMENTID`

Example: `assign cid/829 aid/21`

Removes the Assignment ID from the Course ID specified.

Format: `unassign cid/COURSEID aid/ASSIGNMENTID`

Example: `unassign cid/829 aid/21`

NOTE

When an assignment is assigned to a course, a progress will be created for every student currently assigned to the course. This progress tracks whether the student has completed the specific assignment (Done) or not (Not Done)

5.3. Mark a Student's Assignment as `Done/Undone`

Mark a student's assignment as `Done`.

Format: `done aid/ASSIGNMENTID sid/STUDENTID`

Example: `done aid/829 sid/21`


Mark a student's assignment as `Undone`.

Format: `undone aid/ASSIGNMENTID sid/STUDENTID`


Example: `undone aid/829 sid/21`

Illustration:


Courses


	1. Python Programming
	Course ID: 87018

Selected Course

	1. Python Programming
Course ID: 87018	
Course Fee: 2000	
Assigned Staff: None	
Assigned Students: [63865]	

Assigned Students


	1. George
Student ID: 63865	
Assigned Courses: [87018]	
Number of Done Progress: 0	


	Student ID: 63865
	Assignment ID: 44736
	Status: Not Done

Notice that George has initially not completed Assignment 44736.

After `done aid/44736 sid/63865`:



 Students

 Staffs

 Courses


 Finances

 Assignments

Courses

	1. Python Programming
	Course ID: 87018

Selected Course

	1. Python Programming
Course ID: 87018	
Course Fee: 2000	
Assigned Staff: None	
Assigned Students: [63865]	

Assigned Students

	1. George
Student ID: 63865	
Assigned Courses: [87018]	
Number of Done Progress: 1	

	Student ID: 63865
	Assignment ID: 44736
	Status: Done

\\data\\addressbook.json

Successfully marked Assignment Python Basics Tutorial 1 (44736) as done by Student George (63865)

Now observe 3 updates:

1. Success message as displayed in message box
2. The `status` of the Assignment has been marked as done
3. The `Number of Done Progress` has been incremented by 1

5.4. Select a Student/Staff/Course : `select` or simply click the bar

Selecting means to view the specified item in detail. As mentioned in the previous section, a course may be assigned student/s, a teacher staff, or assignment/s. When you select a course for example, you can view the list of students assigned in the list on the right.

If the specified ID does not exist, the selected panel will become empty.

5.4.1. Select a Student

Views details of a student and list of courses of a student

Format: `select sid/STUDENTID`

Example: `select sid/11` or click the desired Student bar

5.4.2. Select Assignment belonging to the Course of a Student

Views list of Assignment belong to Course of a Student

Format: `select sid/STUDENTID cid/COURSEID`

Example: `select sid/11 cid/1` or click the desired Course bar under the Student

5.4.3. Select a Staff

Views the details of a staff and list of courses of a staff

Format: `select tid/STAFFID`

Example: `select tid/31` or click the desired Staff bar

5.4.4. Select a Course

Views the details of a course and list of students of a course

Format: `select cid/COURSEID`

Example: `select cid/1` or click the desired Course bar

5.4.5. Select Assignment belonging to the Student of a Course:

Views list of Assignment belong to Student of a Course

Format: `select cid/COURSEID sid/STUDENTID`

Example: `select cid/1 sid/11` or click the desired Student bar under the Course

5.4.6. Select a Finance

Views the details of a finance

Format: `select fid/FINANCEID`

Example: `select fid/801` or click the desired Finance bar

5.4.7. Select an Assignment

Views the details of an assignment

Format: `select aid/ASSIGNMENTID`

Example: `select aid/901` or click the desired Assignment bar

5.5. Switch between tabs : [CTRL] + [UP ARROW], [CTRL] + [DOWN ARROW] m, s, t, c, f, a

- The tab orders are: Summary, Staff, Course, Finance, Assignment
- Switch quickly to previous Tab (with wrap around) : Click command box + [CTRL] + [UP ARROW]
- Switch quickly to next Tab (with wrap around): Click command box + [CTRL] + [DOWN ARROW]
- Switch quickly to Summary Tab : m or summary
- Switch quickly to Student Tab : s or student
- Switch quickly to Staff Tab : t or staff
- Switch quickly to Course Tab : c or course
- Switch quickly to Finance Tab : f or finance
- Switch quickly to Assignment Tab : a or assignment

5.5.1. Navigate through your command history: [UP ARROW] or [DOWN ARROW]

- Just like a typical CLI application, you can use up and down arrow keys to navigate through your command history
- Click the command box and press [UP ARROW] or [DOWN ARROW]
- Only complete and successfully executed commands will be added to this history
- There will not be two identical commands beside each other

5.6. Saving the data

Coding Camp book data are saved in the hard disk automatically after any command that changes the data. No manual saving is required.

5.7. Clearing all the data

Coding Camp book data can be cleared by `clear-all` command. This action will **CLEAR** all the entire address book and this action can not undone.

WARNING

This will irrevocably clear the entire address book and you cannot undo it! Be very careful with this command.

5.8. Student

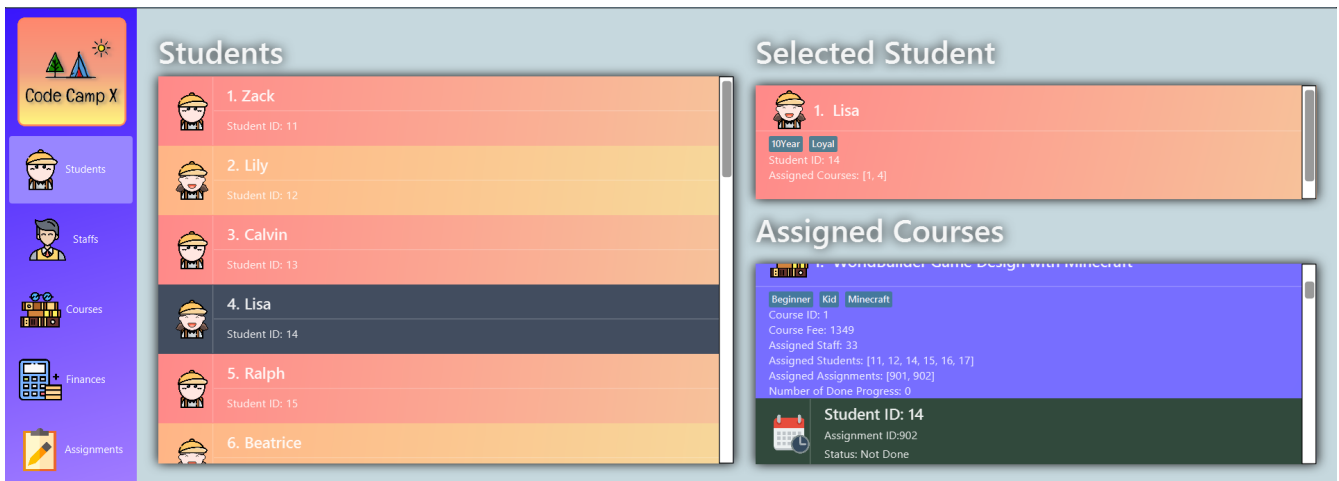


Figure 6. List of Students. Shows details and list of courses of selected student. The list of Assignments is also shown for the selected course

5.8.1. Add a student: `add-student`

Add a new student to the list of student

Format: `add student n/NAME g/GENDER [t/TAG]...`

Example: `*add student n/Jon Snow g/m t/Hardworking`

TIP

The Gender of the Student is shown in the form of a little icon on the left. This automatically updates when you `edit-student 12 g/f` or `edit-student 12 g/m` as well. Try it!

5.8.2. Remove a student: `delete-student`

Remove a student from the list of students

Format: `delete-student ID`

Example:

- `delete-student 16100`

- Deletes the item at the specified **ID**. The ID refers to the ID number shown in the displayed item panel list
- The ID **must be a positive integer** 16100, 25200, 55250, ...

NOTE

Be reminded that when you delete a student, the student will be deleted from every course as well
For example, a course that was only assigned to this student **Bob** will change to **None** if student **Bob** is deleted.

5.8.3. Locating items by name: `find-student`

Finds student whose names contain any of the given keywords.

Format: `find-student KEYWORD [MORE_KEYWORDS]...`

- The search is case insensitive. e.g `bob` will match `Bob`
- The order of the keywords does not matter. e.g. `Ned Stark` will match `Stark Ned`
- Only the name is searched
- Only full words will be matched e.g. `Sta` will not match `Stark`
- Items matching at least one keyword will be returned (i.e. `OR` search). e.g. `Ned Stark` will return `Ned Stark`, `Bran Stark` and `Ned Targaryen`

Examples:

- `find-student Ned`
Returns `ned` and `Ned Stark`
- `find-student Lannister Targaryen Stark`
Returns any student having names `Lannister`, `Targaryen`, or `Stark`

5.8.4. List all students: `list-student`

Shows a list of all students Format: `list-student`

5.8.5. Edit information about a student: `edit-student`

Edits an existing student in the student list Format: `edit-student ID [n/NAME] [g/GENDER] [t/TAG]...`

Example:

- `edit-student 16100 n/Aegon Targaryen t/freshman`

- Edits the student at the specified `ID`. The ID refers to the ID number shown in the displayed student panel list
- The ID **must be a positive integer** 16100, 25200, 52500, ...
- At least one of the optional fields must be provided
- Existing values will be updated to the input values
- When editing tags, the existing tags of the item will be removed i.e adding of tags is not cumulative
- You can remove all the student's tags by typing `t/` without specifying any tags after it

5.9. Staff

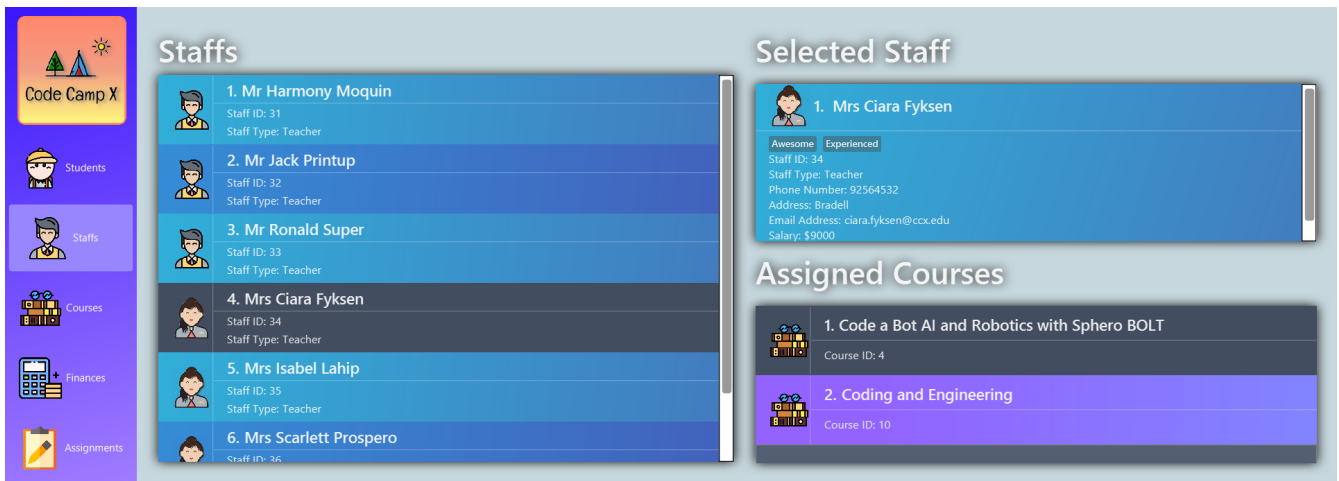


Figure 7. List of Staffs. Shows details and list of courses of selected staff

5.9.1. Add a staff: `add-staff`

Add a new staff to the list of staff

Format: `add-staff n/NAME lvl/LEVEL g/GENDER p/PHONE e/EMAIL s/SALARY a/ADDRESS [t/TAG]...`

Example: `* add-staff n/Bob Ross lvl/teacher g/m p/98765432 e/bob.ross@gmail.com s/1000 a/311, Clementi Ave 2, #02-25 t/LovesArt t/Friendly`

WARNING

The lvl of the staff refers to the Staff Type. It can only be specified as `teacher` or `admin`. Only a `teacher` can be assigned to a course. An `admin` cannot be assigned to a course.

A `teacher` is paid by the courses that he/she teaches. (finance type ft/ct) An `admin` is paid by miscellaneous transactions. (finance type ft/m)

TIP

The Gender of the Staff is shown in the form of a little icon on the left. This automatically updates when you `edit-staff 31 g/f` or `edit-staff 31 g/m` as well. Try it!

5.9.2. Remove a staff: `delete-staff`

Remove a staff from the list of staffs

Format: `delete-staff ID`

Example:

- `delete-staff 16100`

- Deletes the item at the specified `ID`. The ID refers to the ID number shown in the displayed item panel
- The ID **must be a positive integer** 16100, 25200, 52500, ...

NOTE

Be reminded that when you delete a staff that is of staff type: Teacher, the teacher will be deleted from every course as well.
For example, a course that was assigned teacher **Bob** will change to **None** if teacher **Bob** is deleted.

5.9.3. Locating items by name: `find-staff`

Finds staff whose names contain any of the given keywords.

Format: `find-staff KEYWORD [MORE_KEYWORDS]...`

- The search is case insensitive. e.g `bob` will match `Bob`
- The order of the keywords does not matter. e.g. `Ned Stark` will match `Stark Ned`
- Only the name is searched
- Only full words will be matched e.g. `Sta` will not match `Stark`
- Items matching at least one keyword will be returned (i.e. `OR` search). e.g. `Ned Stark` will return `Ned Stark`, `Bran Stark` and `Ned Targaryen`

Examples:

- `find-staff Ned`
Returns `ned` and `Ned Stark`
- `find-staff Lannister Targaryen Stark`
Returns any staffs having names `Lannister`, `Targaryen`, or `Stark`

5.9.4. List all staffs: `list-staff`

Shows a list of all staffs Format: `list-staff`

5.9.5. Edit information about a staff: `edit-staff`

Edits an existing staff in the staff list Format: `edit-staff ID [n/NAME] [g/GENDER] [p/PHONE] [e/EMAIL] [s/SALARY] [a/ADDRESS] [t/TAG]...`

Example:

- `edit-staff 16100 n/Aegon Targaryen t/legend`

- Edits the staff at the specified **ID**. The ID refers to the ID number shown in the displayed staff panel
- The ID **must be a positive integer** 16100, 25200, 52500, ...
- At least one of the optional fields must be provided
- Existing values will be updated to the input values
- When editing tags, the existing tags of the item will be removed i.e adding of tags is not cumulative
- You can remove all the staff's tags by typing **t/** without specifying any tags after it

NOTE

You only can edit Name, Gender, Phone, Email, Salary, Address and Tags of a Staff.

If you edit a salary of a Teacher Staff, all the Finance associated with him still **remain the same**. This is because a Finance is added based on the salary of a Teacher at that moment and it records the transaction made. If a Teacher Staff's salary is edited (for example: increased), it means this Teacher's salary base is increased and it has nothing to do with the Finances that has been made.

5.10. Course

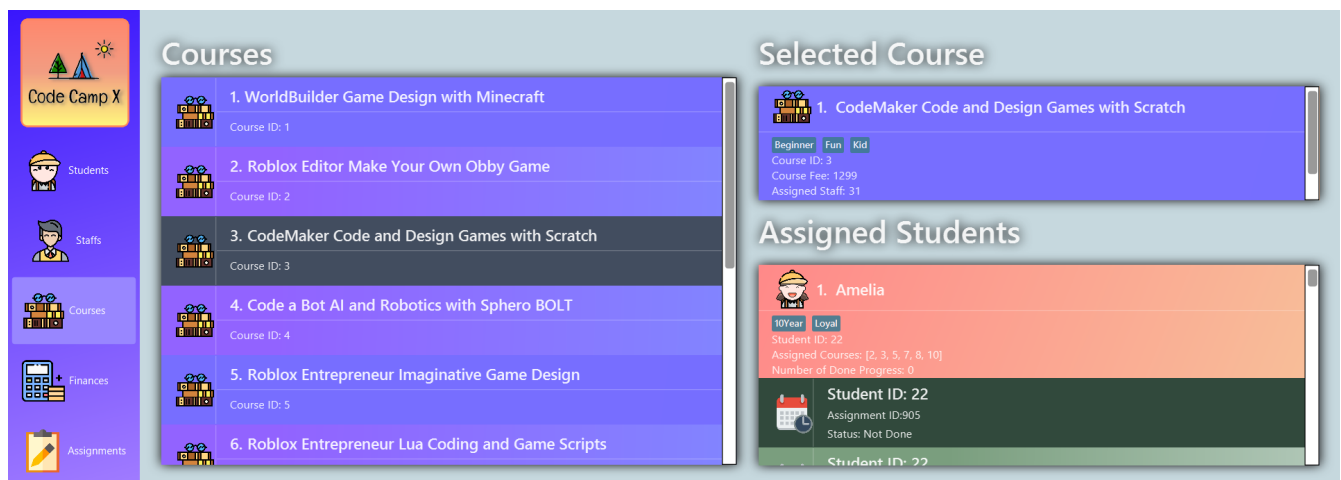


Figure 8. List of Courses. Shows details and list of students of selected Course. The list of Assignments is also shown for the selected Student

5.10.1. Add a course: **add-course**

Add a new course to the list of course

Format: **add course n/NAME a/AMOUNT [t/TAG]...**

Example: **add course n/Cozmo Programming a/2000 t/Fun t/Robot**

5.10.2. Remove a course: **delete-course**

Remove a course from the list of courses

Format: **delete-course ID**

Example:

- `delete-course 16100`

NOTE

Be reminded that when you delete a course, the course will be deleted from every student and teacher as well.
For example, a teacher that was only assigned to this course **Java** will change to **None** if course **Java** is deleted.

5.10.3. Edit information about a course: `edit-course`

Edits an existing course in the course list Format: `edit-course ID [n/NAME] [a/AMOUNT] [t/TAG]...`

Example:

- `edit-course 1 n/Java 101 a/1000 t/intermediate`

- Edits the course at the specified **ID**. The ID refers to the ID number shown in the displayed course panel
- The ID **must be a positive integer** 16100, 25200, 52500, ...
- At least one of the optional fields must be provided
- Existing values will be updated to the input values
- When editing tags, the existing tags of the item will be removed i.e adding of tags is not cumulative
- You can remove all the course's tags by typing `t/` without specifying any tags after it

5.10.4. Locating items by name: `find-course`

Finds course whose names contain any of the given keywords.

Format: `find-course KEYWORD [MORE_KEYWORDS]...`

- The search is case insensitive. e.g `Cozmo` will match `cozmo`
- The order of the keywords does not matter. e.g. `Cozmo Programming` will match `Programming Cozmo`
- Only the name is searched
- Only full words will be matched e.g. `Coz` will not match `Cozmo`
- Items matching at least one keyword will be returned (i.e. **OR** search). e.g. `Cozmo Programming` will return `Cozmo Programming`, `Cozmo Introduction` and `Java Programming`

Examples:

- `find-course Cozmo`
Returns `cozmo` and `Cozmo Programming`
- `find-course Java Python C`
Returns any course having names `Java`, `Python`, or `C`

5.10.5. List all courses: `list-course`

Shows a list of all courses Format: `list-course`

5.10.6. Edit information about a course: `edit-course`

Edits an existing course in the course list Format: `edit-course ID [n/NAME] [a/AMOUNT] [t/TAG]...`

Example:

- `edit-course 16100 n/Java Programming a/2000`

- Edits the course at the specified **ID**. The ID refers to the ID number shown in the displayed course panel
- The ID **must be a positive integer** 16100, 25200, 55250, ...
- At least one of the optional fields must be provided
- Existing values will be updated to the input values
- When editing tags, the existing tags of the item will be removed i.e adding of tags is not cumulative
- You can remove all the course's tags by typing `t/` without specifying any tags after it

5.11. Finance

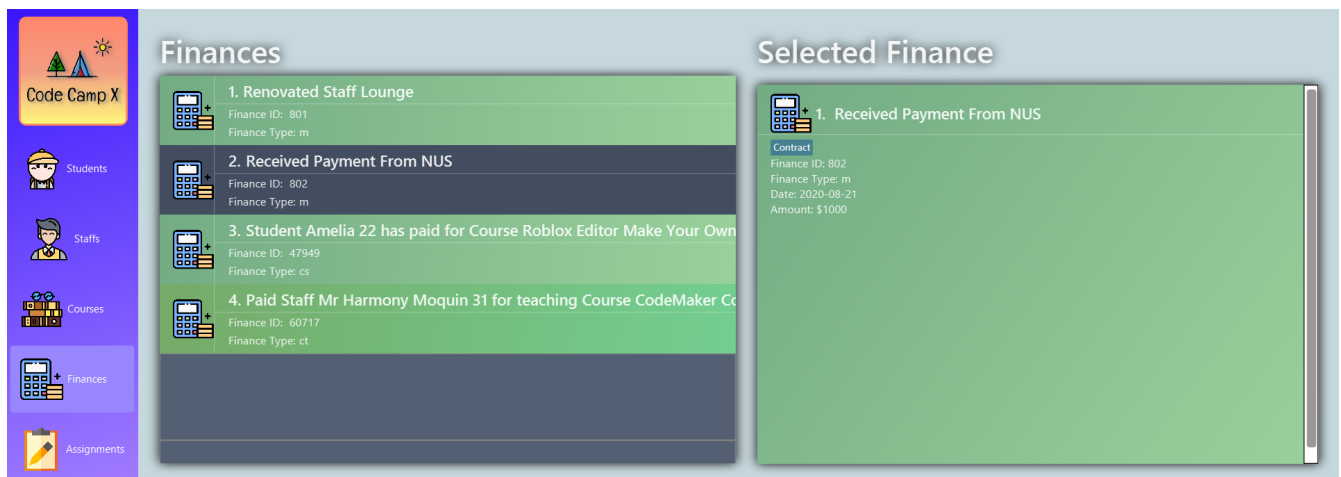


Figure 9. List of Finances. Shows details of selected Finance. Type m is Finance Type 1, Type cs is Finance Type 2, and Type ct is Finance Type 3

5.11.1. Add a finance: `add-finance`

Add a new finance to the list of finance

- Type 1: Adding miscellaneous transactions(Specify ft/ as m)
 - Parameters: ft/FINANCETYPE d/DATE n/NAME a/AMOUNT [t/TAG]...
 - Example: add-finance ft/m d/2020-12-09 n/Paid NTU a/1200 t/Partnership t/Monthly
- Type 2: A student paying for a course(Specify ft/ as cs)
 - Parameters: ft/FINANCETYPE d/DATE cid/COURSEID sid/STUDENTID [t/TAG]...
 - Example: add-finance ft/cs d/2020-12-09 cid/829 sid/33 t/Late
- Type 3: A teacher is paid for teaching a course(Specify ft/ as ct)
 - Parameters: ft/FINANCETYPE d/DATE cid/COURSEID tid/TEACHERID [t/TAG]...
 - Example: add-finance ft/ct d/2020-12-09 cid/829 tid/21 t/Early

To summarise, all three types requires ft/FINANCETYPE and d/DATE to be specified.

Type 1 additionally requires n/FINANCE-NAME a/AMOUNT

Type 2 additionally requires cid/COURSEID sid/STUDENTID

Type 3 additionally requires cid/COURSEID tid/TEACHERID

TIP

For Type 1 miscellaneous transactions, you can specify the amount as negative(with a "-" in front) or positive(without a "-" in front) For example, a/100 or a/-100

For Type 2 student paying for a course, the amount will be positive automatically, as it is an earning

For Type 3 teacher being paid for teaching a course, the amount will be negative automatically, as it is an expense

To make Payment for a teacher, it is important to check the salary value of the teacher. This value is set to 0 by default when adding a new staff (teacher) if the user does not specify salary. A result of payment with amount 0 will be added if the salary of the teacher is 0.

The positive and negative amount is important (for miscellaneous type) as it is used under "earnings" and "expenses" commands.

5.11.2. Remove a finance: delete-finance

Remove a finance from the list of finances

Format: delete-finance ID

Example:

- delete-finance 16100

- Deletes the item at the specified ID. The ID refers to the ID number shown in the displayed item panel. Each finance has a unique ID number
- The ID **must be a positive integer** 16100, 25270, ...

5.11.3. Edit a finance

Edits an existing finance in the finance list Format: `edit-finance ID [n/NAME] [d/DATE] [a/AMOUNT] [t/TAG]...`

Example:

- `edit-finance 16100 n/Buying new tables d/2020-04-13 a/3000`

- Edits the finance with the specified **ID**. The ID refers to the ID number shown in the displayed payment panel
- The ID **must be a positive integer** 16100, 25200, 55250, ...
- At least one of the optional fields must be provided
- Existing values will be updated to the input values
- When editing tags, the existing tags of the item will be removed i.e adding of tags is not cumulative
- You can remove all the payment's tags by typing `t/` without specifying any tags after it

5.11.4. Locating items by name: `find-finance`

Finds finance whose names contain any of the given keywords.

Format: `find-finance KEYWORD [MORE_KEYWORDS]...`

- The search is case insensitive. e.g `payment` will match `Payment`
- The order of the keywords does not matter. e.g. `Payment Received` will match `Received Payment`
- Only the name is searched
- Only full words will be matched e.g. `Pay` will not match `Payment`
- Items matching at least one keyword will be returned (i.e. **OR** search). e.g. `Received Payment` will return `Received Payment`, `Added Payment` and `Received Income`

Examples:

- `find-finance Payment`
Returns `payment` and `Received Payment`
- `find-finance Course Student Teacher`
Returns any finance having names `Course`, `Student`, or `Teacher`

5.11.5. List all finances: `list-finance`

Shows a list of all finances Format: `list-finance`

5.11.6. Get total earnings: **earnings**

Shows all the earnings (finances with positive amount) as a number.

Format: **earnings**

5.11.7. Get total expenses: **expenses**

Shows all the expenses (finances with positive amount) as a number.

Format: **expenses**

5.12. Assignment

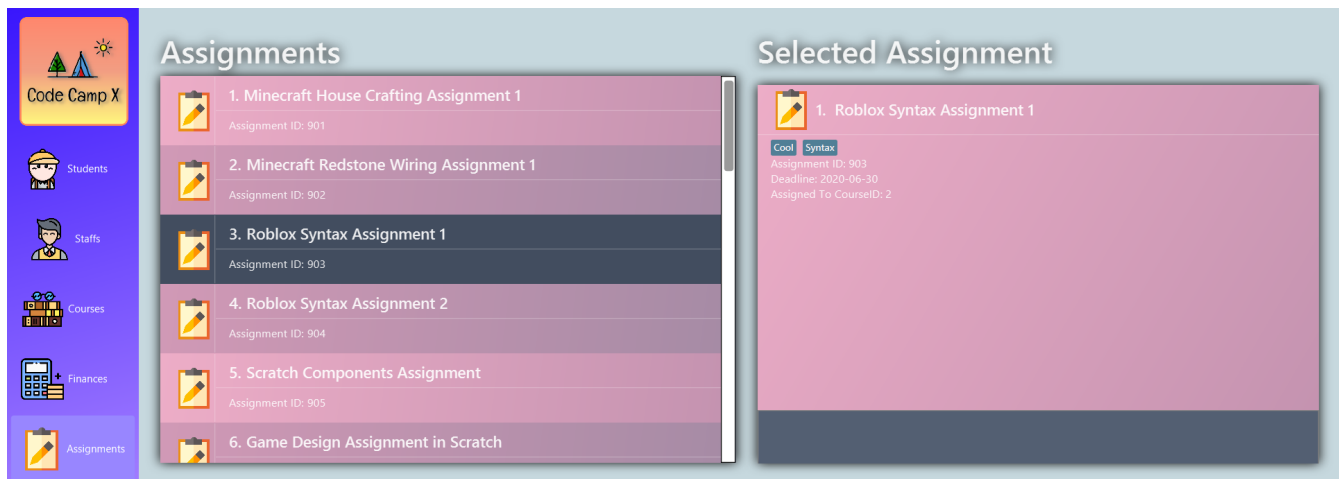


Figure 10. List of Assignments. Shows details of selected Assignment.

5.12.1. Add an assignment: **add-assignment**

Add a new assignment to the list of all assignments

Format: **n/NAME dl/DEADLINE [t/TAG]...**

Example: * **add-assignment n/Adversarial Search Assignment 2 dl/2020-12-30 t/AI t/Difficult**

NOTE

DEADLINE must be in YYYY - MM - DD or YYYY - MM - DD format else an error will be thrown.

5.12.2. Delete an assignment: **delete-assignment**

Format: **delete-assignment ID**

Example:

- **delete-assignment 16100**

- Deletes the item at the specified **ID**. The ID refers to the ID number shown in the displayed item list
- The ID **must be a positive integer** 16100, 25200, 52500, ...

NOTE

Be reminded that when you delete an assignment, the assignment will be deleted from every course as well.
Furthermore, the progress of the assignment will also be removed from every course of any student
and every student of any course.
For example, a student that was only assigned to a course that contains only this assignment will have no assignment left after this assignment is deleted.

5.12.3. Edit an assignment: `edit-assignment`

Format: `edit-assignment ID [n/NAME] d1/DEADLINE t/TAGS]`

Example:

- `edit-assignment 16100 n/Edit Python Assignment 1`

- Edits the assignment at the specified **ID**. The ID refers to the ID number shown in the displayed course list panel
- The ID **must be a positive integer** 16100, 2520, 52500, ...
- At least one of the optional fields must be provided
- Existing values will be updated to the input values
- When editing tags, the existing tags of the item will be removed i.e adding of tags is not cumulative
- You can remove all the assignment's tags by typing `t/` without specifying any tags after it

5.12.4. Locating items by name: `find-assignment`

Finds assignments whose names contain any of the given keywords.

Format: `find-assignment KEYWORD [MORE_KEYWORDS]...`

- The search is case insensitive. e.g `java` will match `Java`
- The order of the keywords does not matter. e.g. `Java Assignment` will match `Assignment Java`
- Only the name is searched
- Only full words will be matched e.g. `Java` will not match `Javascript`
- Items matching at least one keyword will be returned (i.e. **OR** search). e.g. `Java Assignment` will return `Java Course`, `Java Code` and `Python Assignment`

Examples:

- `find-assignment java`
Returns `java` and `Java Assignment`

5.13. Upcoming Features

5.13.1. Add registration [coming in v2.0]

Add a `register` command by including role (i.e. privilege system).

Format: `register id/USERNAME pw/PASSWORD n/FULL_NAME r/ROLE_ID`

Examples:

- `register id/azhikai pw/1122qq n/Ang Zhi Kai r/999`

5.13.2. Creating user role [coming in v2.0]

Creates a user role. User assigned with higher ranking role can execute more commands.

Format: `create-role r/RANK n/ROLE_NAME`

Examples:

- `create-role r/999 n/Owner`
- `create-role r/2 n/Supervisor`
- `create-role r/1 n/Employee`

5.13.3. Editing user role [coming in v2.0]

Edits an existing user role.

Format: `edit-role r/RANK [nr/NEW_RANK] [n/ROLE_NAME]`

Examples:

- `edit-role r/999 n/Administrator`
- `edit-role r/2 nr/3 n/Manager`

5.13.4. Deleting user role [coming in v2.0]

Deletes an existing user role.

Format: `delete-role r/RANK`

Examples:

- `delete-role r/999`

6. Frequently Asked Questions (FAQ)

Q: How do I transfer my data to another Computer?

A: Install the application in the other computer and overwrite the empty data file it creates with the file that contains the data of your previous **CodeCampX** folder.

Q: Where do I find the latest release of the application?

A: You can find all releases [here](#).

7. Command Summary

Table 1. Summary of command formats

Section	Command	Format	Example
Help	Help	help	help
Undo/Redo	Undo an undoable command	undo	undo
	Redo a redoable command	redo	redo
Select item	Select a Student	select sid/STUDENTID	select sid/1
	Select a Staff	select tid/STAFFID	select tid/31
	Select a Course	select cid/COURSEID	select cid/1
	Select Assignment belonging to the Course of a Student:	select sid/STUDENTID cid/COURSEID	select sid/11 cid/1
	Select Assignment belonging to the Student of a Course:	select cid/COURSEID sid/STUDENTID	select cid/1 sid/11
Switch tab	Switch to Summary Tab	m or summary	m or summary
	Switch to Student Tab	s or student	s or student
	Switch to Staff Tab	t or staff	t or staff
	Switch to Course Tab	c or course	c or course
	Switch to Finance Tab	f or finance	f or finance
	Switch to Assignment Tab	a or assignment	a or assignment

Section	Command	Format	Example
Assigning to Course	Assign Student to a Course	assign cid/COURSEID sid/STUDENTID	assign cid/829 sid/33
	Assign Teacher to a Course	assign cid/COURSEID tid/TEACHERID	assign cid/829 tid/21
	Assign Assignment to a Course	assign cid/COURSEID aid/ASSIGNMENTID	assign cid/829 aid/21
	Unassign Student from a Course	unassign cid/COURSEID sid/STUDENTID	unassign cid/829 sid/33
	Unassign Teacher from a Course	unassign cid/COURSEID tid/TEACHERID	unassign cid/829 tid/21
	Unassign Assignment from a Course	unassign cid/COURSEID aid/ASSIGNMENTID	unassign cid/829 aid/21
Done/Undo Commands	Mark an Assignment as Done	done sid/STUDENTID aid/ASSIGNMENTID	done sid/33 aid/21
	Mark an Assignment as Undone	undone sid/STUDENTID aid/ASSIGNMENTID	undone sid/33 aid/21
Student Commands	Add Student	add-student n/NAME [t/TAG]...	add-student n/Jon Snow t/Hardworking
	Delete Student	delete-student ID	delete-student 16100
	Find Student	find-student KEYWORD [MORE_KEYWORDS]...	find-student Lannister Targaryen Stark
	List Student	list-student	list-student
	Edit Student	edit-student ID [n/NAME] [t/TAG]...	edit-student 16100 n/Aegon Targaryen t/knownothing
Staff Commands	Add Staff	add-staff n/NAME [t/TAG]...	add-staff n/Jon Snow t/Hardworking
	Delete Staff	delete-staff ID	delete-staff 16100
	Find Staff	find-staff KEYWORD [MORE_KEYWORDS]...	find-staff Lannister Targaryen Stark
	List Staff	list-staff	list-staff
	Edit Staff	edit-staff ID [n/NAME] [t/TAG]...	edit-staff 16100 n/Aegon Targaryen t/Son of Lyanna Stark and Rhaegar Targaryen
Course Commands	Add Course	add-course n/NAME a/AMOUNT [t/TAG]...	add-course n/Cozmo Programming a/2000 t/Fun t/Robot
	Delete Course	delete-course ID	delete-course 16100
	Find Course	find-course KEYWORD [MORE_KEYWORDS]...	find-course Java Python C
	List Course	list-course	list-course
	Edit Course	edit-course ID [n/NAME] [a/AMOUNT] [t/TAG]...	edit-course 16100 n/Java Programming a/2000

Section	Command	Format	Example
Finance Commands	Add Finance Type 1 (ft/m)	add-finance ft/FINANCETYPE d/DATE n/NAME a/AMOUNT [t/TAG]...	add-finance ft/m d/2020-12-09 n/Paid NTU a/1200 t/Partnership t/Monthly
	Add Finance Type 2 (ft/cs)	add-finance ft/FINANCETYPE d/DATE cid/COURSEID sid/STUDENTID [t/TAG]...	add-finance ft/cs d/2020-12-09 cid/829 sid/33 t/Late
	Add Finance Type 3 (ft/ct)	add-finance ft/FINANCETYPE d/DATE cid/COURSEID tid/TEACHERID [t/TAG]...	add-finance ft/ct d/2020-12-09 cid/829 tid/21 t/Early
	Delete Finance	delete-finance ID	delete-finance 16100
	Find Finance	find-finance KEYWORD [MORE_KEYWORDS]...	find-finance Lannister Targaryen Stark
	List Finance	list-finance	list-finance
	Calculate Earnings	earnings	earnings
	Calculate Expenses	expenses	expenses