

How to Run Classroom Manager

This guide will cover on all the features of Classroom Manager

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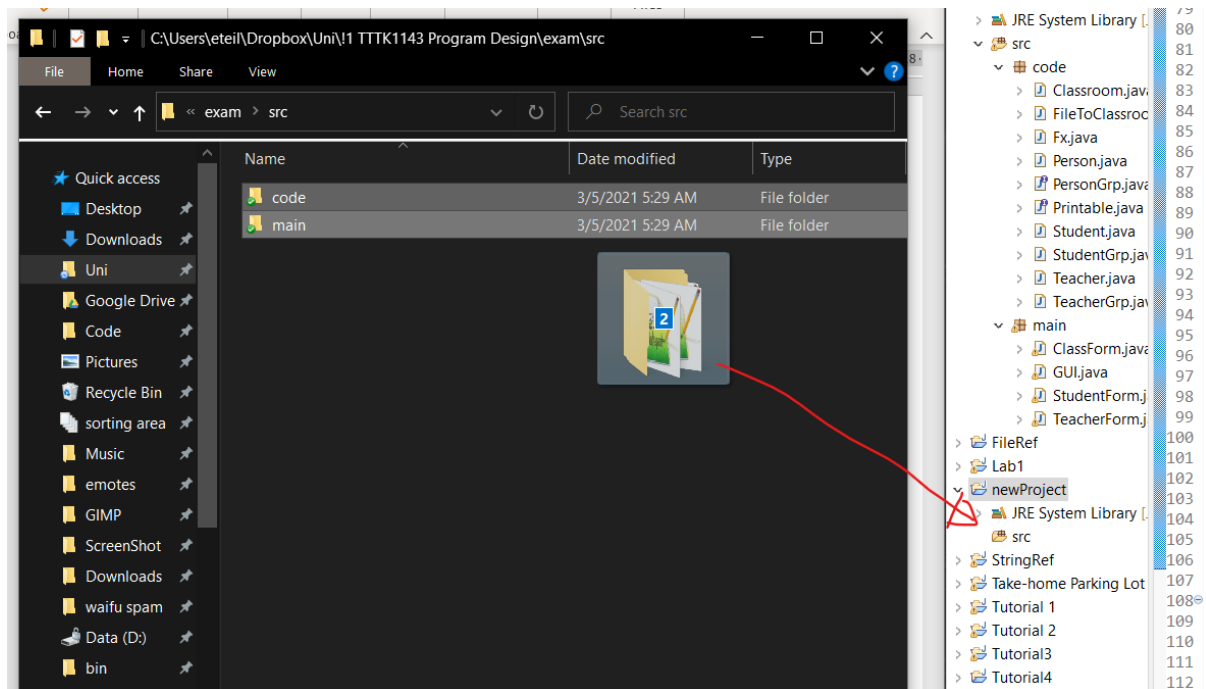
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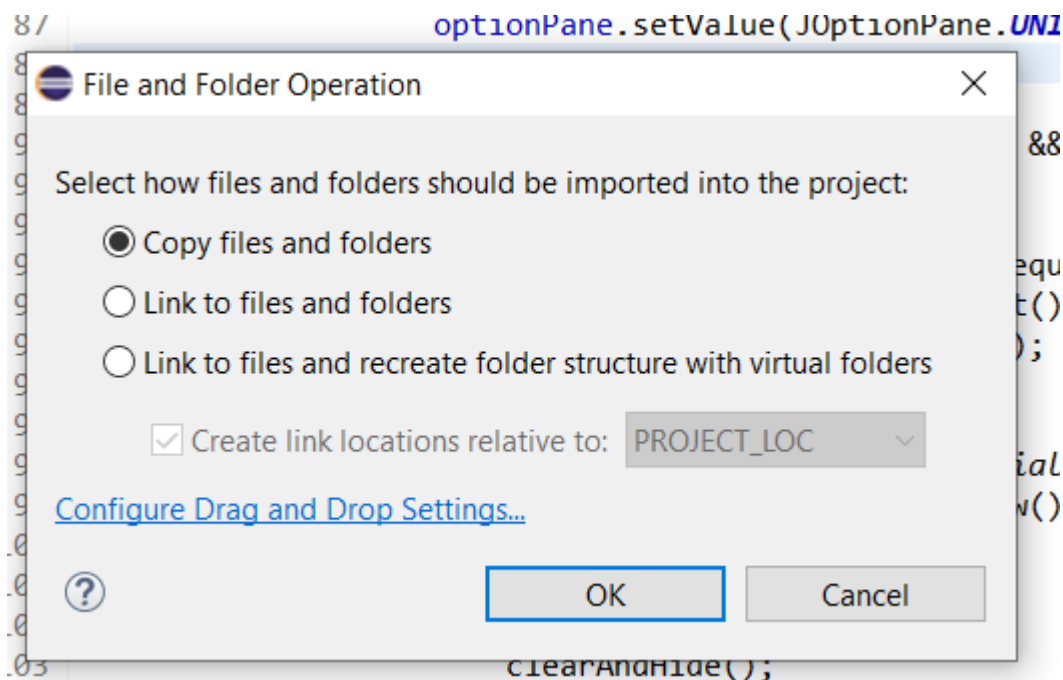
Running the program

The current recommended way is to load the source files into Eclipse and run it.

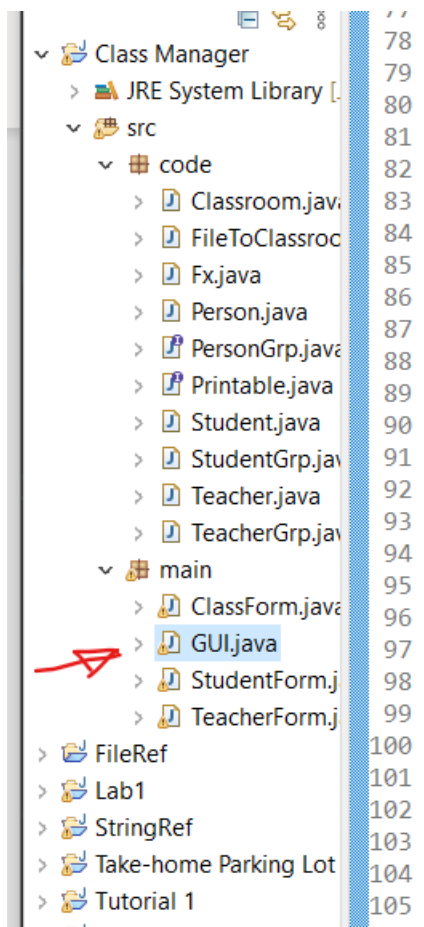
Create a new Java Project and drag the source files into src.



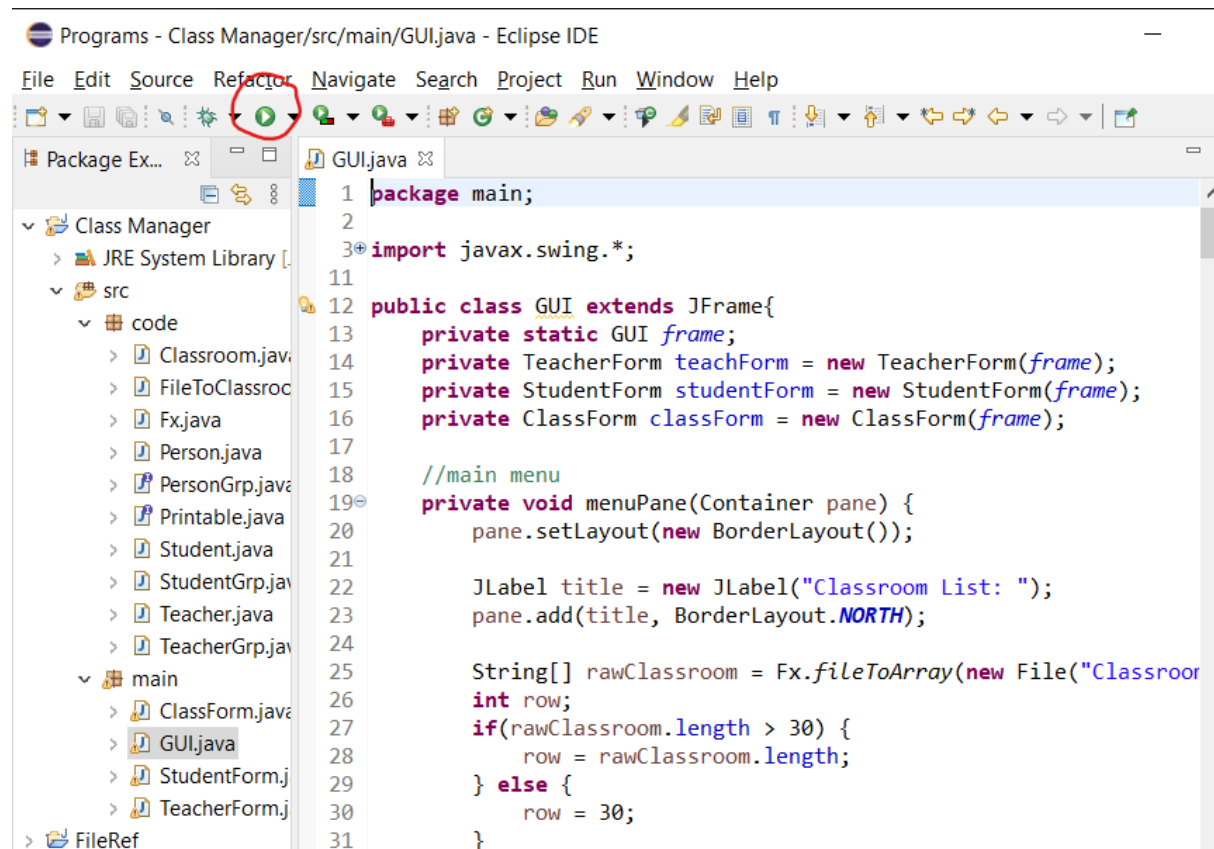
Select "Copy files and folders", then click "OK".



The main method is located in package main, GUI.java.



Run the file with GUI.java open in Eclipse.



[Main Menu](#)

When you first run the program, you will be greeted with this main menu.

[illegible]

The table will display the classrooms you have stored in the system, along with their respective class teacher. Try clicking on the table, you will notice that the rows are selectable.

Let us start by populating the system with some classrooms.

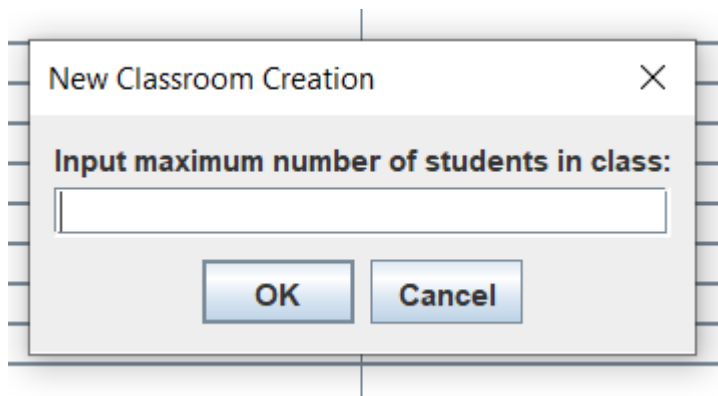
Adding a classroom

1. Enter classroom maximum capacity

Click on the “Add new...” button, second button from the bottom left corner.



The following dialogue box will pop up.

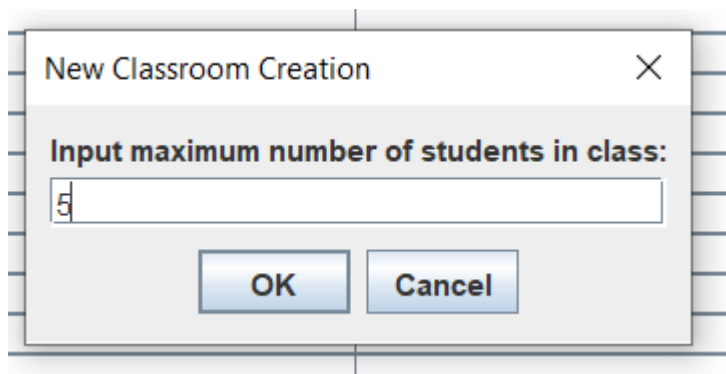


A screenshot of a dialog box titled "New Classroom Creation" with a close button (X) in the top right corner. The main text inside the dialog is "Input maximum number of students in class:". Below this text is an empty text input field. At the bottom of the dialog are two buttons: "OK" and "Cancel".

Enter the maximum number of students you can have in the classroom.

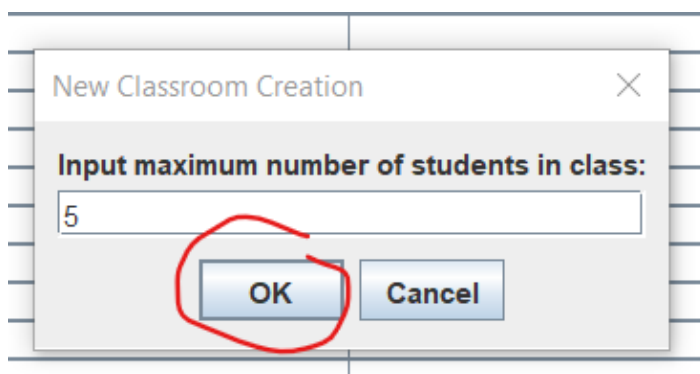
Note that you cannot change this value later, so make sure you get it right.

For our example, we will input "5".



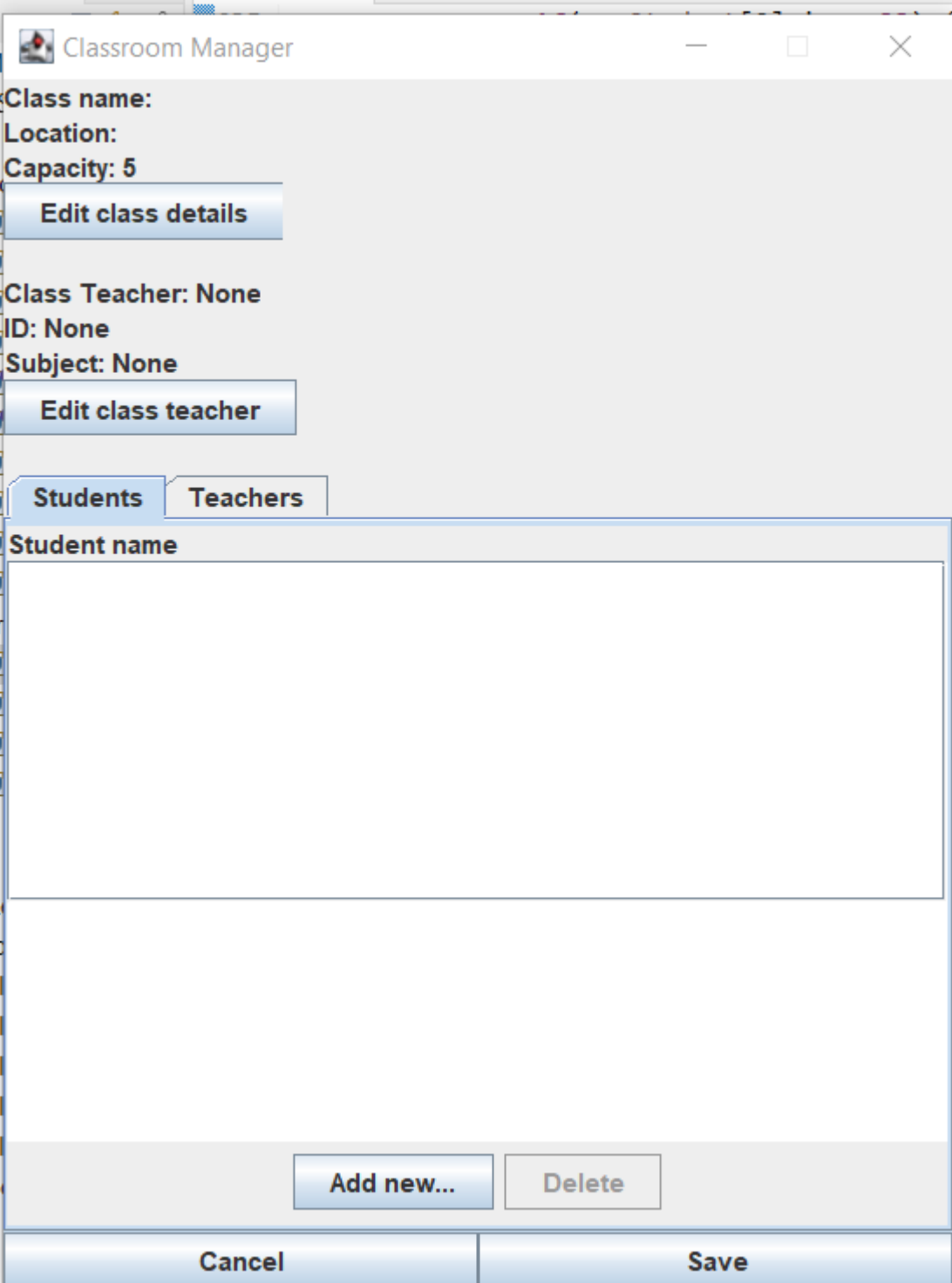
A screenshot of the same "New Classroom Creation" dialog box. The text input field now contains the number "5". The "OK" and "Cancel" buttons remain at the bottom.

Click on the "OK" button.



A screenshot of the "New Classroom Creation" dialog box with the number "5" in the input field. A red hand-drawn circle highlights the "OK" button, indicating it should be clicked.

You should now arrive at the Classroom Creation Menu.



The image shows a software window titled "Classroom Manager". It contains several input fields and buttons for managing a classroom. The fields are labeled "Class name:", "Location:", "Capacity: 5", "Class Teacher: None", "ID: None", and "Subject: None". There are buttons for "Edit class details" and "Edit class teacher". Below these is a tabbed interface with "Students" and "Teachers" tabs. The "Students" tab is active, showing a large empty text area labeled "Student name". At the bottom of the window are buttons for "Add new...", "Delete", "Cancel", and "Save".

Classroom Manager

Class name:
Location:
Capacity: 5
Edit class details

Class Teacher: None
ID: None
Subject: None
Edit class teacher

Students Teachers

Student name

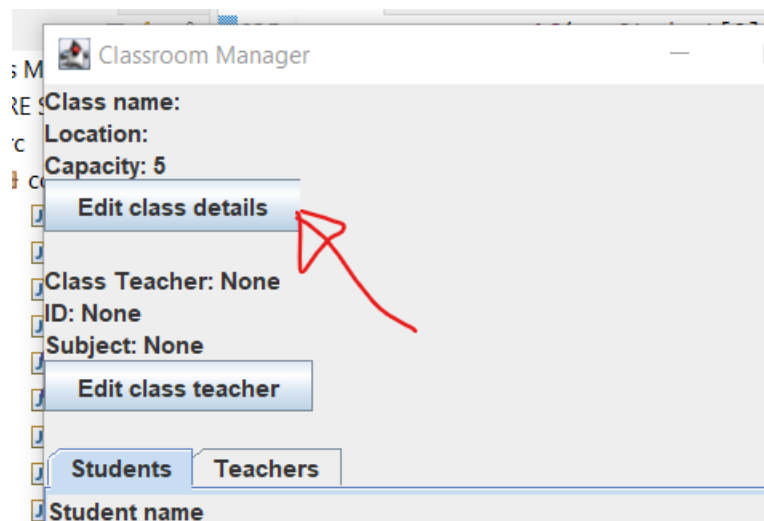
Add new... Delete

Cancel Save

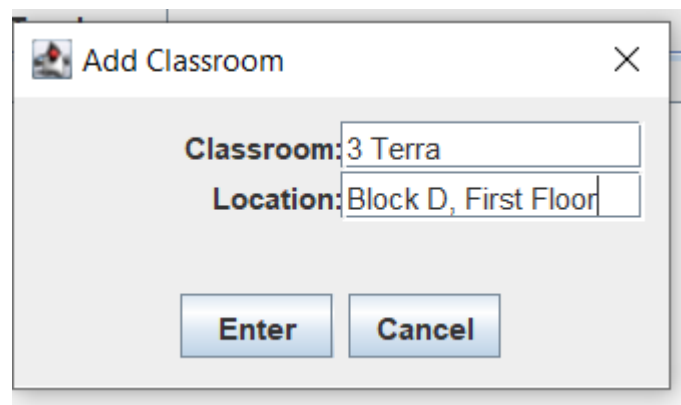
Here, you can add the details of your classroom.

2. Edit class details.

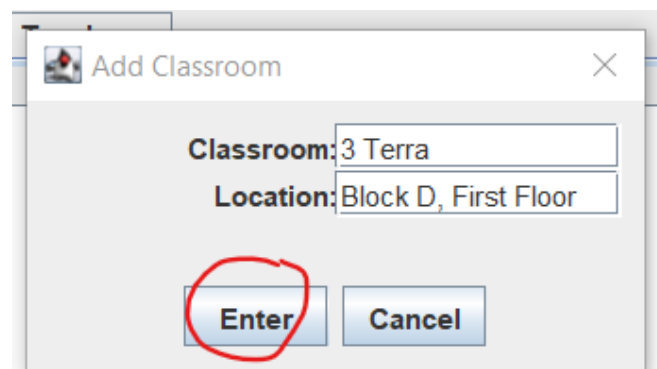
Let us edit the class details. Click “Edit class details” near the top.



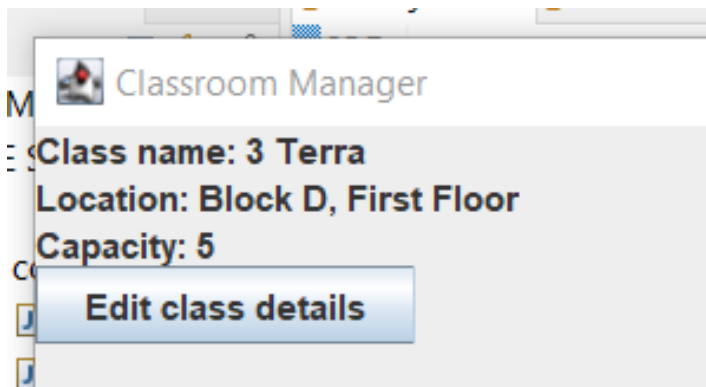
Enter the name of the classroom and its location.



And press “Enter”.

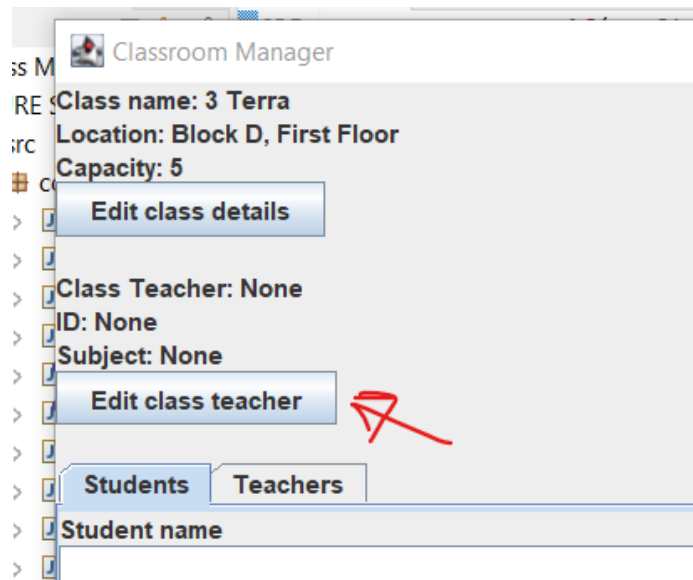


Note that the class details have changed.

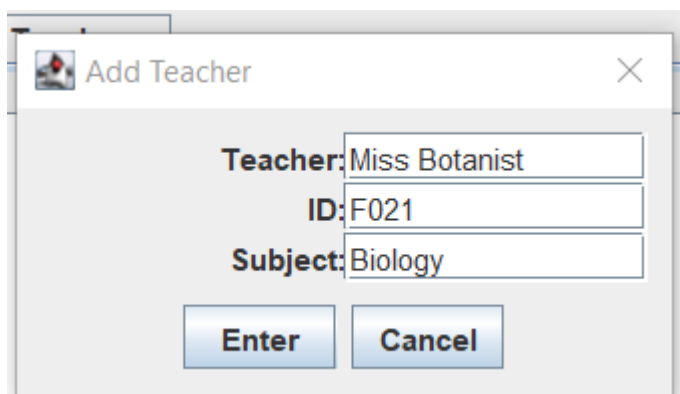


3. Edit class teacher.


Click on the "Edit class teacher" button below the class teacher's details.



Enter the class teacher's details. (Do not put commas in the text fields.)



And press "Enter".

 Classroom Manager

Class name: 3 Terra
Location: Block D, First Floor
Capacity: 5
[Edit class details](#)

Class Teacher: Miss Botanist
ID: F021
Subject: Biology
[Edit class teacher](#)

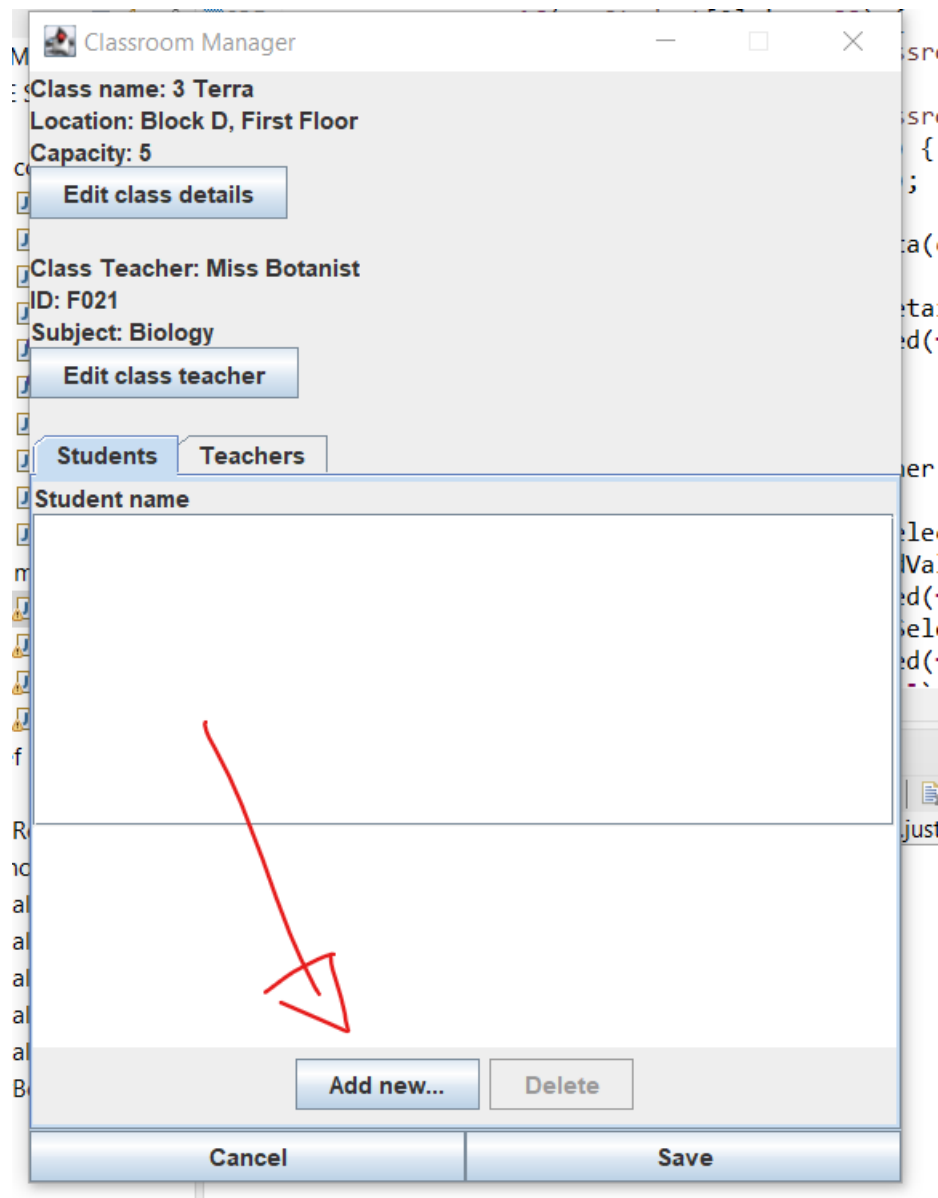
[Students](#) [Teachers](#)

Student name

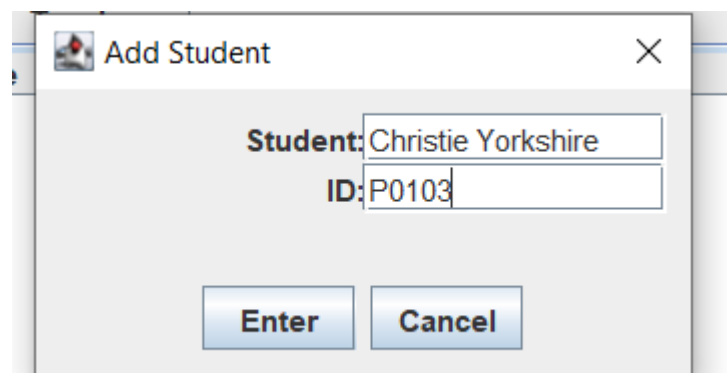
The details of the class teacher has been updated.

4. Add students.

Click on “Add new...” near the bottom of the window.



The screenshot shows the 'Classroom Manager' window. At the top, it displays class details: 'Class name: 3 Terra', 'Location: Block D, First Floor', and 'Capacity: 5'. Below this is an 'Edit class details' button. Further down, it shows 'Class Teacher: Miss Botanist', 'ID: F021', and 'Subject: Biology', with an 'Edit class teacher' button. There are two tabs: 'Students' (selected) and 'Teachers'. Below the tabs is a large empty text area for student names. At the bottom of the window, there are two buttons: 'Add new...' and 'Delete'. A red arrow points from the 'Add new...' button towards the bottom of the window. At the very bottom, there are 'Cancel' and 'Save' buttons.



The screenshot shows the 'Add Student' dialog box. It has two input fields: 'Student:' with the text 'Christie Yorkshire' and 'ID:' with the text 'P0103'. At the bottom, there are two buttons: 'Enter' and 'Cancel'.

Fill in the student details, making sure not to put any commas, and press “Enter”.

StudentsTeachers

Student name

Christie Yorkshire

Add new...

Delete

The student's details will now be saved.

Repeat the process to register multiple students under the class.

StudentsTeachers

Student name

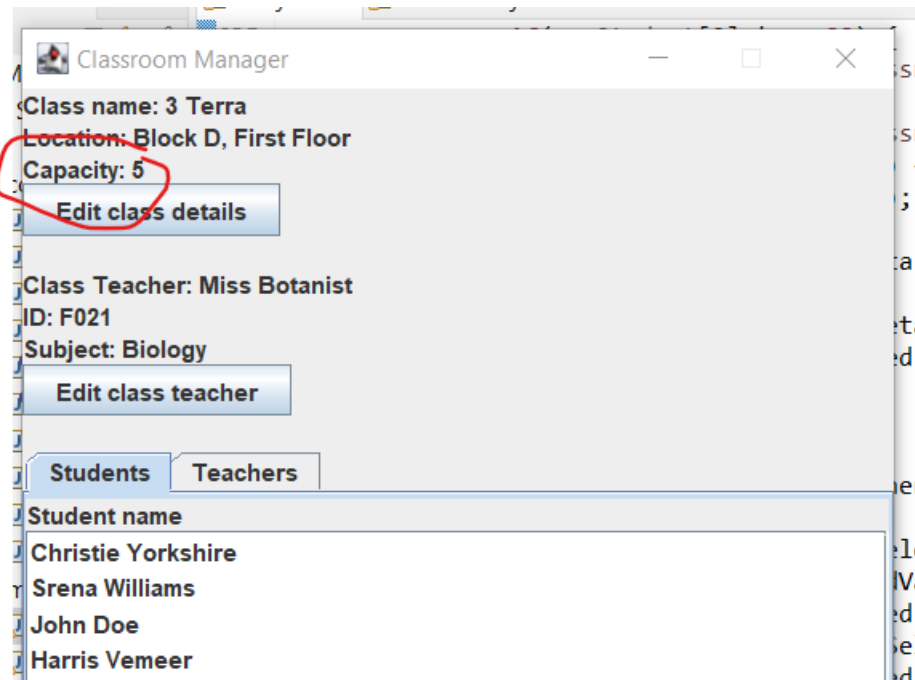
Christie Yorkshire

Srena Williams

John Doe

Harris Vemeer

Note, you cannot have more students than what you indicated as the max capacity. (The number you set earlier.) The “Add new...” button will be grayed out if you hit the limit. If you forgot what the capacity was, you can check class details.



The screenshot shows a window titled "Classroom Manager" with a light gray background. At the top, there's a header bar with a small icon and the title. Below the header, the class details are listed: "Class name: 3 Terra", "Location: Block D, First Floor", "Capacity: 5", "Class Teacher: Miss Botanist", "ID: F021", and "Subject: Biology". The "Capacity: 5" text is circled in red. Below the details, there are two buttons: "Edit class details" and "Edit class teacher". At the bottom, there are two tabs: "Students" and "Teachers". The "Students" tab is selected, showing a list of student names: "Christie Yorkshire", "Srena Williams", "John Doe", and "Harris Vemeer".

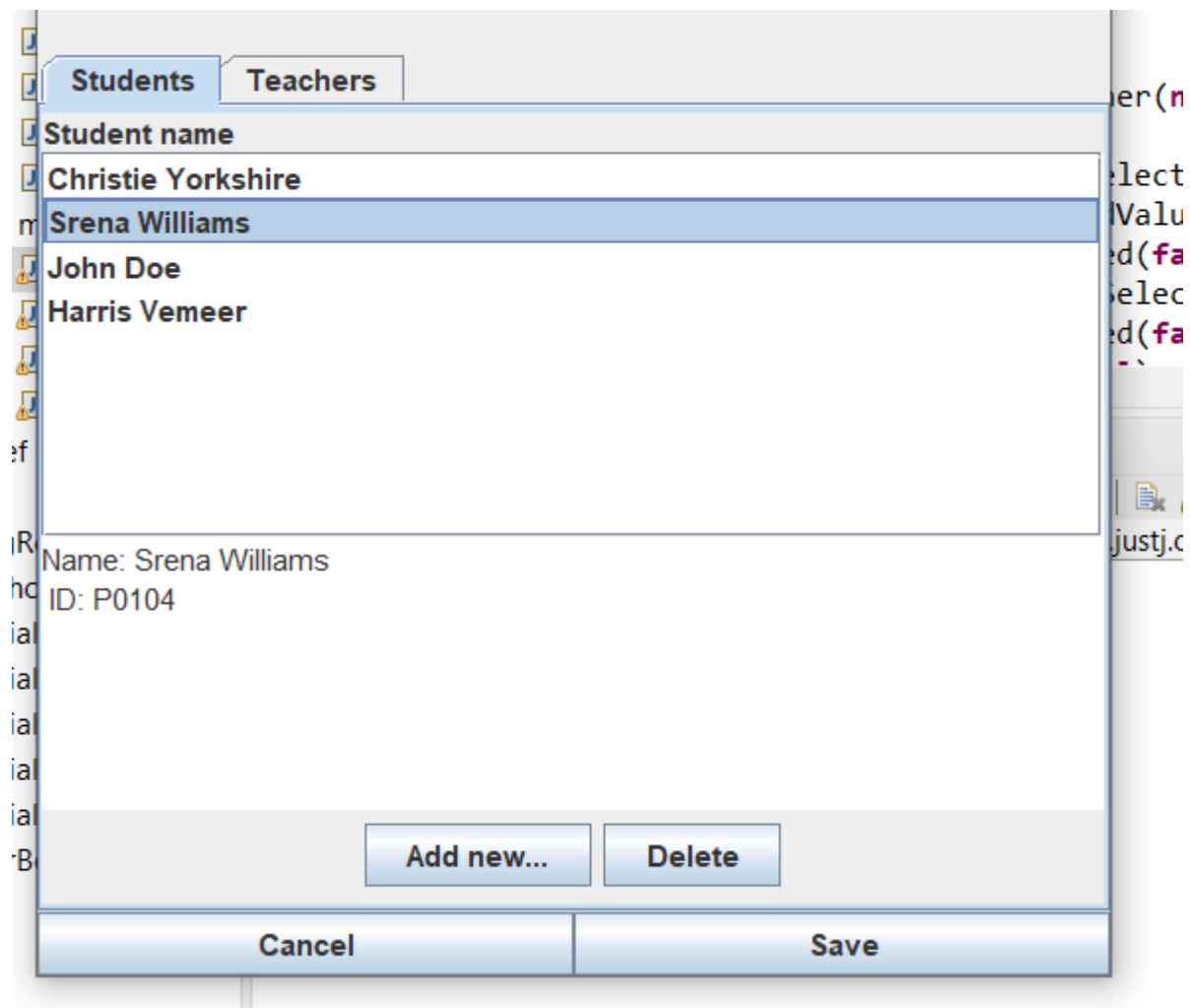
Student name
Christie Yorkshire
Srena Williams
John Doe
Harris Vemeer

Another important note, you cannot have two students with the same ID. The entry will simply not register.

5. Delete students.

If you had made a mistake during data entry, you could delete the entry and re-enter the data again.

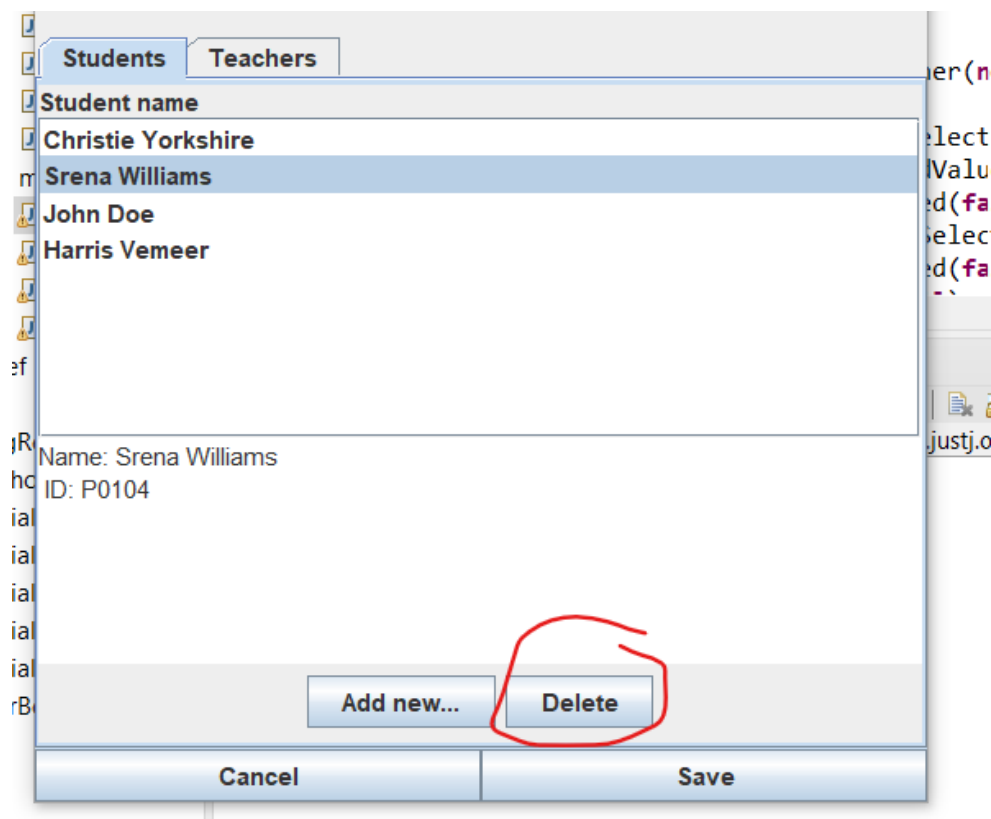
First, select the row of the student you want to delete by left-clicking on the name.



The student's info will be shown in the info panel (at the bottom of the list).

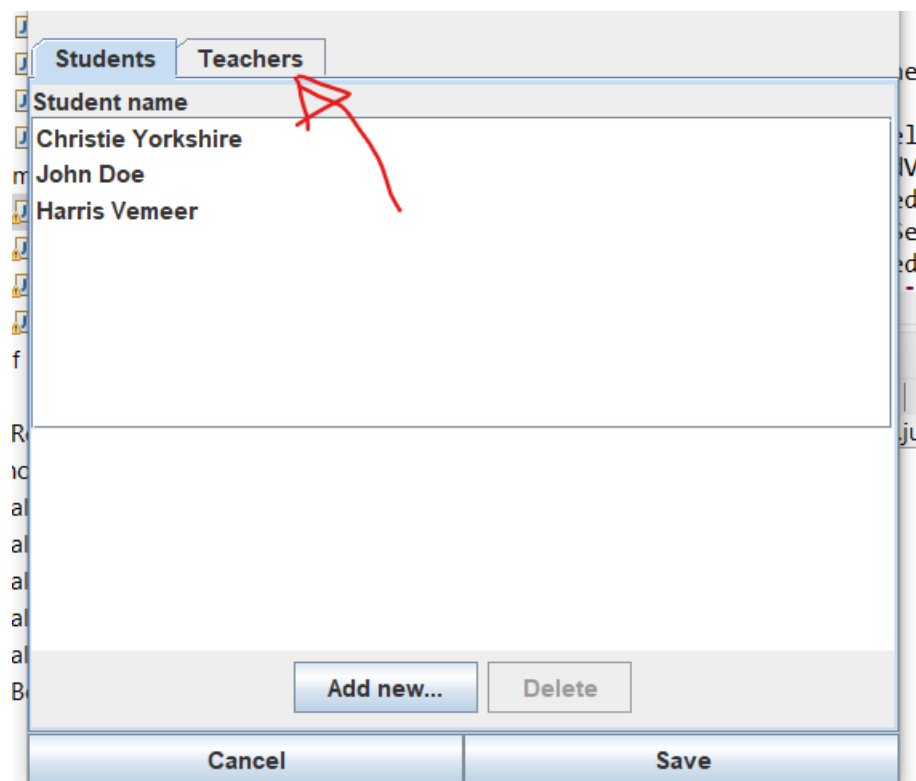
Also note that the "Delete" button next to "Add new..." is now enabled.

Click on the “Delete” button to remove the entry.



6. Add/Delete Teachers

Click the “Teacher” tab to edit the list of teachers.



The screenshot shows a window with two tabs: 'Students' and 'Teachers'. The 'Teachers' tab is selected. Below the tabs is a label 'Teacher name' followed by a large, empty text input field. At the bottom of the window, there are four buttons: 'Add new...' (highlighted in blue), 'Delete', 'Cancel', and 'Save'.

The layout is the similar to the “Students” tab.

Click on “Add new...” to enter a new teacher. Do not put commas in the text field.

The screenshot shows a dialog box titled 'Add Teacher'. It contains three input fields: 'Teacher:' with the text 'Mr Engineer', 'ID:' with the text 'F035', and 'Subject:' with the text 'Physics'. At the bottom of the dialog box, there are two buttons: 'Enter' and 'Cancel'.

Unlike students, there is no duplicate entry detection for teachers. This is because a teacher may teach multiple classes, as well as handle different subjects for the same class.

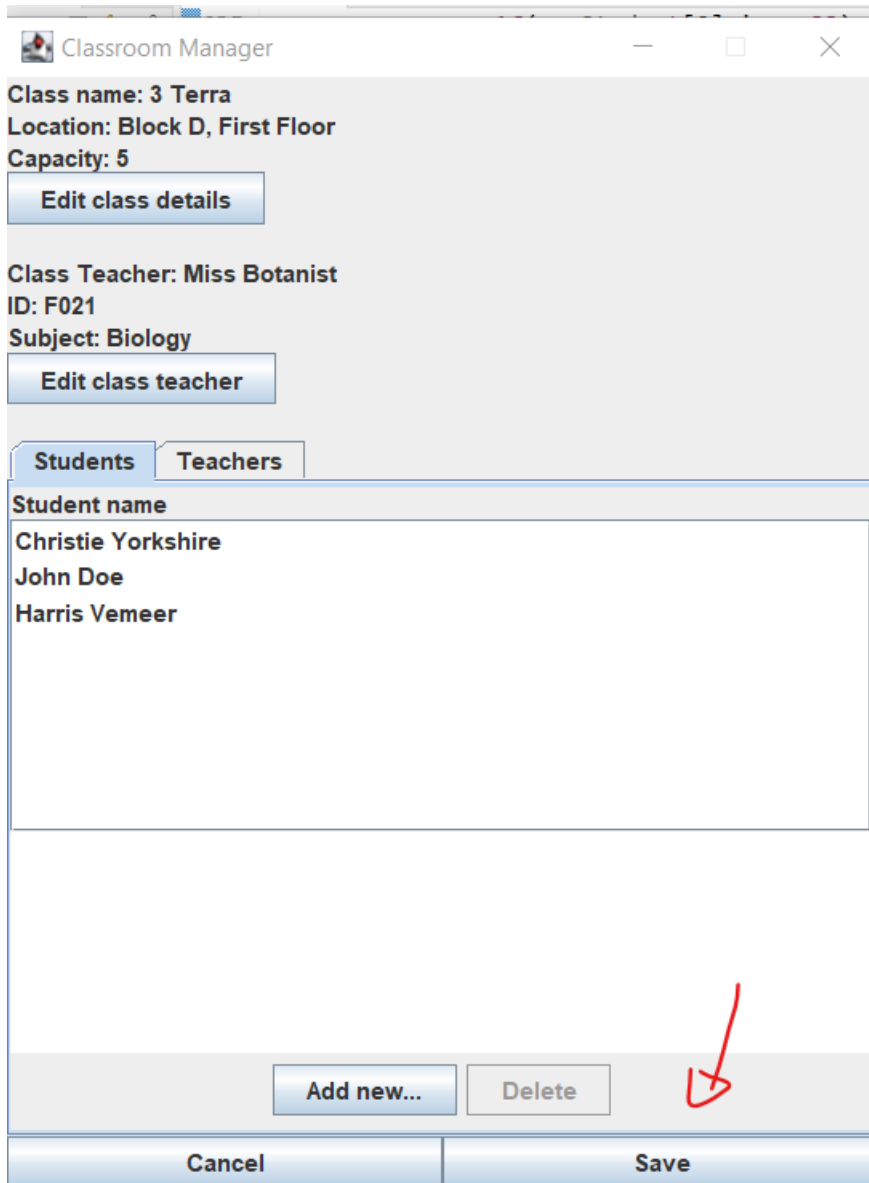
There is no limit to the number of teachers you can register per class. However, the system can only handle up to 100 entries per class. Any entries beyond 100 will be discarded when saved.

Again, select a teacher to view their details, and click the “Delete” button at the bottom to remove their entry.

The screenshot shows a web application interface for managing teachers. At the top, there are two tabs: 'Students' and 'Teachers'. The 'Teachers' tab is currently selected. Below the tabs, the title 'Teacher name' is displayed. Underneath, there is a list of teacher names: 'Mr Engineer', 'Madam Sonja', and 'Miss Cadbury'. The 'Mr Engineer' entry is highlighted with a blue background. Below the list, the details for the selected teacher are shown: 'Name: Mr Engineer', 'ID: F035', and 'Subject: Physics'. At the bottom of the interface, there are two buttons: 'Add new...' and 'Delete'.

7. Saving and cancelling

Once you are done, save the classroom by clicking on the “Save” button at the bottom right of the window.



The screenshot shows a window titled "Classroom Manager" with a standard Windows-style title bar (minimize, maximize, close buttons). The window is divided into several sections:

- Class details:** Displays "Class name: 3 Terra", "Location: Block D, First Floor", and "Capacity: 5". Below this is a button labeled "Edit class details".
- Teacher information:** Displays "Class Teacher: Miss Botanist", "ID: F021", and "Subject: Biology". Below this is a button labeled "Edit class teacher".
- Tabbed interface:** Two tabs are visible: "Students" (selected) and "Teachers".
- Student list:** Under the "Students" tab, there is a list box titled "Student name" containing three entries: "Christie Yorkshire", "John Doe", and "Harris Vemeer".
- Bottom controls:** A horizontal bar at the bottom contains three buttons: "Add new...", "Delete", and "Save". A red arrow points to the "Save" button. To the left of the "Save" button is a "Cancel" button.

The data will be saved to a text file in the system.

If you changed your mind and would like to cancel, click on the “Cancel” button.

The screenshot shows a window titled "Classroom Manager" with the following content:

- Class name:** 3 Terra
- Location:** Block D, First Floor
- Capacity:** 5
- Edit class details** button
- Class Teacher:** Miss Botanist
- ID:** F021
- Subject:** Biology
- Edit class teacher** button
- Two tabs: **Students** (selected) and **Teachers**
- Student name** header above a list box containing:
 - Christie Yorkshire
 - John Doe
 - Harris Vemeer
- At the bottom, a row of buttons: **Add new...**, **Delete**, **Cancel**, and **Save**. A red arrow points to the **Add new...** button.

Viewing classrooms

With that, we have our first class entry in the Classroom Manager.



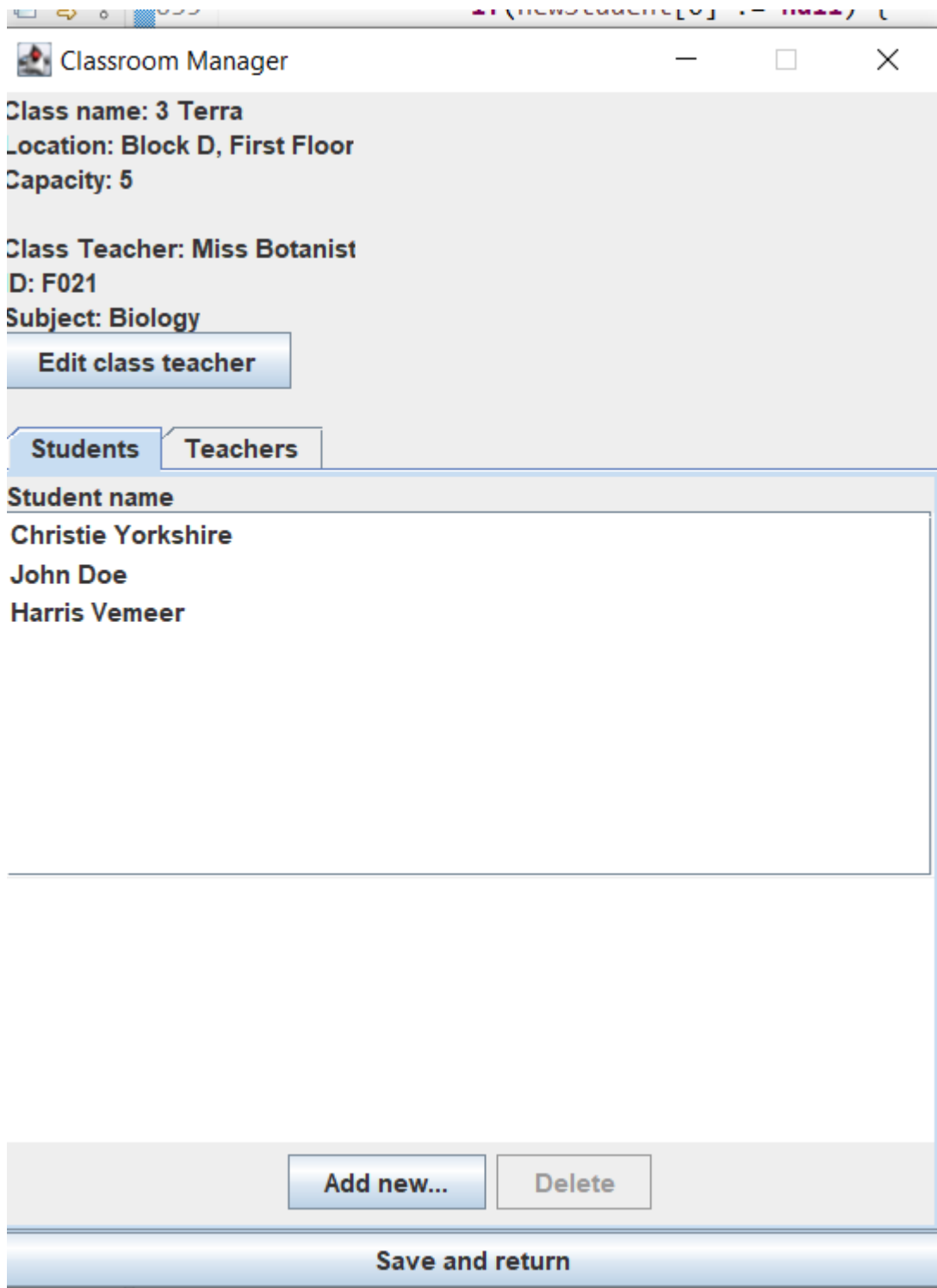
The screenshot shows a window titled "Classroom Manager" with a standard Windows-style title bar (minimize, maximize, close buttons). Below the title bar is a header bar labeled "Classroom List:". The main area contains a table with two columns: "Class Name" and "Class teacher". The first row of the table contains the text "3 Terra" under "Class Name" and "Miss Botanist" under "Class teacher". The table has 20 rows in total, with the first row being populated and the rest empty. At the bottom of the window, there is a horizontal bar containing four buttons: "Add from file", "Add new...", "Delete class", and "View class".

Class Name	Class teacher
3 Terra	Miss Botanist

Buttons at the bottom: Add from file, Add new..., Delete class, View class

[illegible]

This will bring you to the Class Details Menu.



The screenshot shows a web application window titled "Classroom Manager". The main content area displays class details for "3 Terra". The details include the location "Block D, First Floor", capacity "5", teacher "Miss Botanist", room "D: F021", and subject "Biology". There is a button labeled "Edit class teacher". Below this, there are two tabs: "Students" (which is active) and "Teachers". Under the "Students" tab, a list of student names is shown: "Christie Yorkshire", "John Doe", and "Harris Vemeer". At the bottom of the window, there are three buttons: "Add new...", "Delete", and a large "Save and return" button.

Classroom Manager

Class name: 3 Terra
Location: Block D, First Floor
Capacity: 5

Class Teacher: Miss Botanist
D: F021
Subject: Biology

[Edit class teacher](#)

Students | **Teachers**

Student name

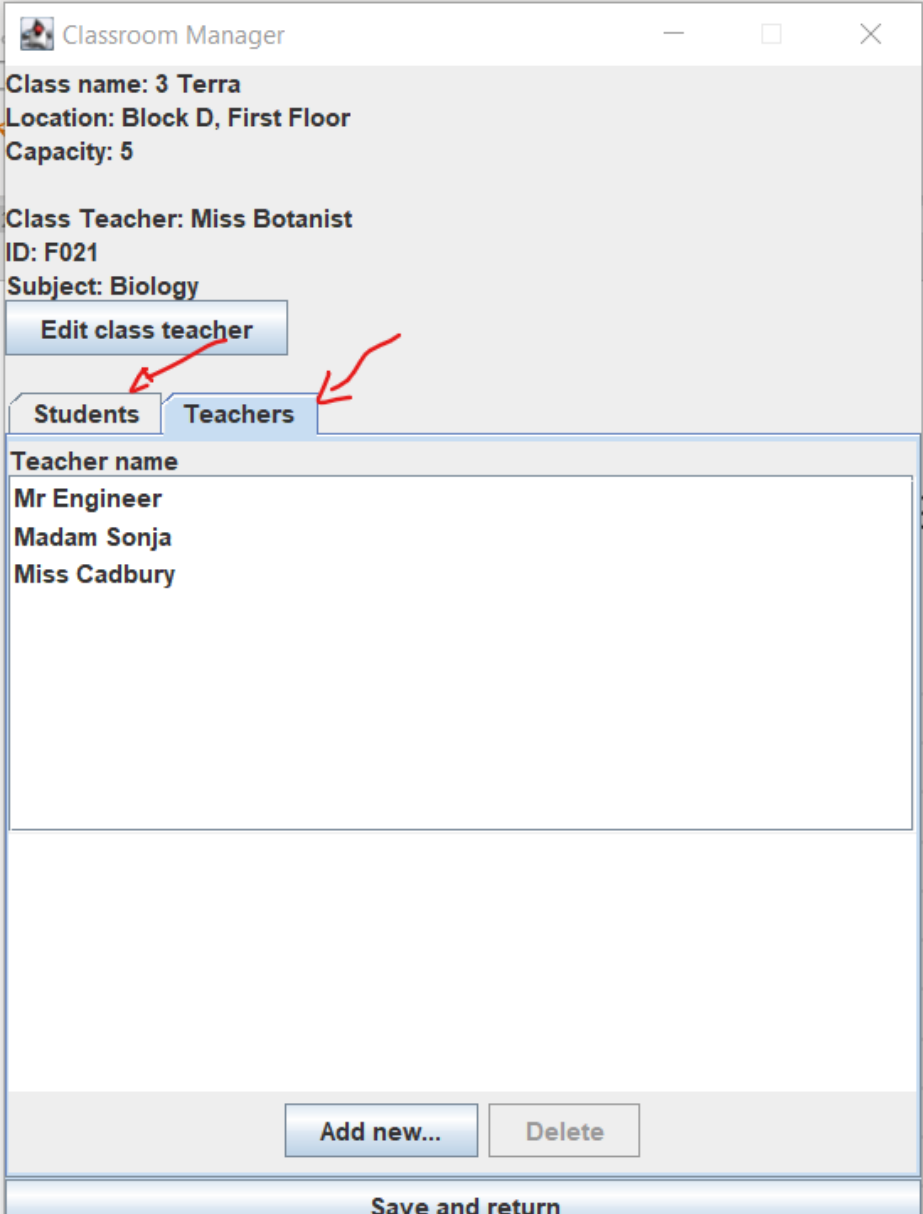
Christie Yorkshire
John Doe
Harris Vemeer

[Add new...](#) [Delete](#)

Save and return

Here, you can view class details, and edit them if you wish. The interface is similar to the Class Creation menu.

You can swap between “Students” and “Teachers” view by clicking on the tabbed pane.



The screenshot shows a window titled "Classroom Manager" with standard Windows window controls (minimize, maximize, close). The window contains the following elements:

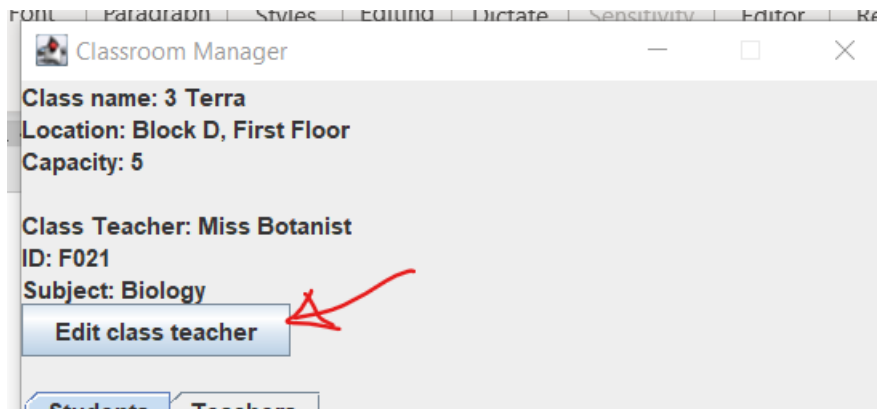
- Class Information:**
 - Class name: 3 Terra
 - Location: Block D, First Floor
 - Capacity: 5
 - Class Teacher: Miss Botanist
 - ID: F021
 - Subject: Biology
- Action Buttons:**
 - An "Edit class teacher" button is located below the subject information.
- Tabbed Pane:**
 - Two tabs are present: "Students" and "Teachers".
 - Red arrows point to both tabs, indicating they are clickable.
- Teacher List:**
 - Below the tabs, under the heading "Teacher name", there is a list box containing three names: "Mr Engineer", "Madam Sonja", and "Miss Cadbury".
- Footer Buttons:**
 - At the bottom of the window, there are two buttons: "Add new..." and "Delete".
 - Below these buttons is a wide "Save and return" button.

Editing classrooms

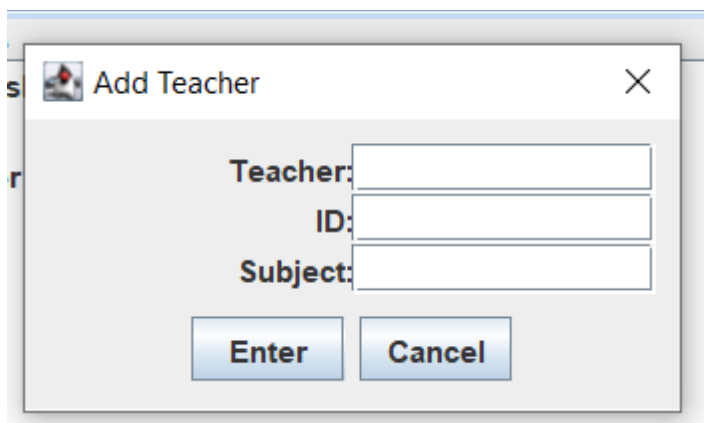
To edit saved classrooms, first navigate to the Class Details Menu as covered in the previous chapter, [“Viewing Classrooms”](#).

Edit class teacher

Click on the “Edit class teacher” button.



It will bring up a dialogue box. Enter details as appropriate.



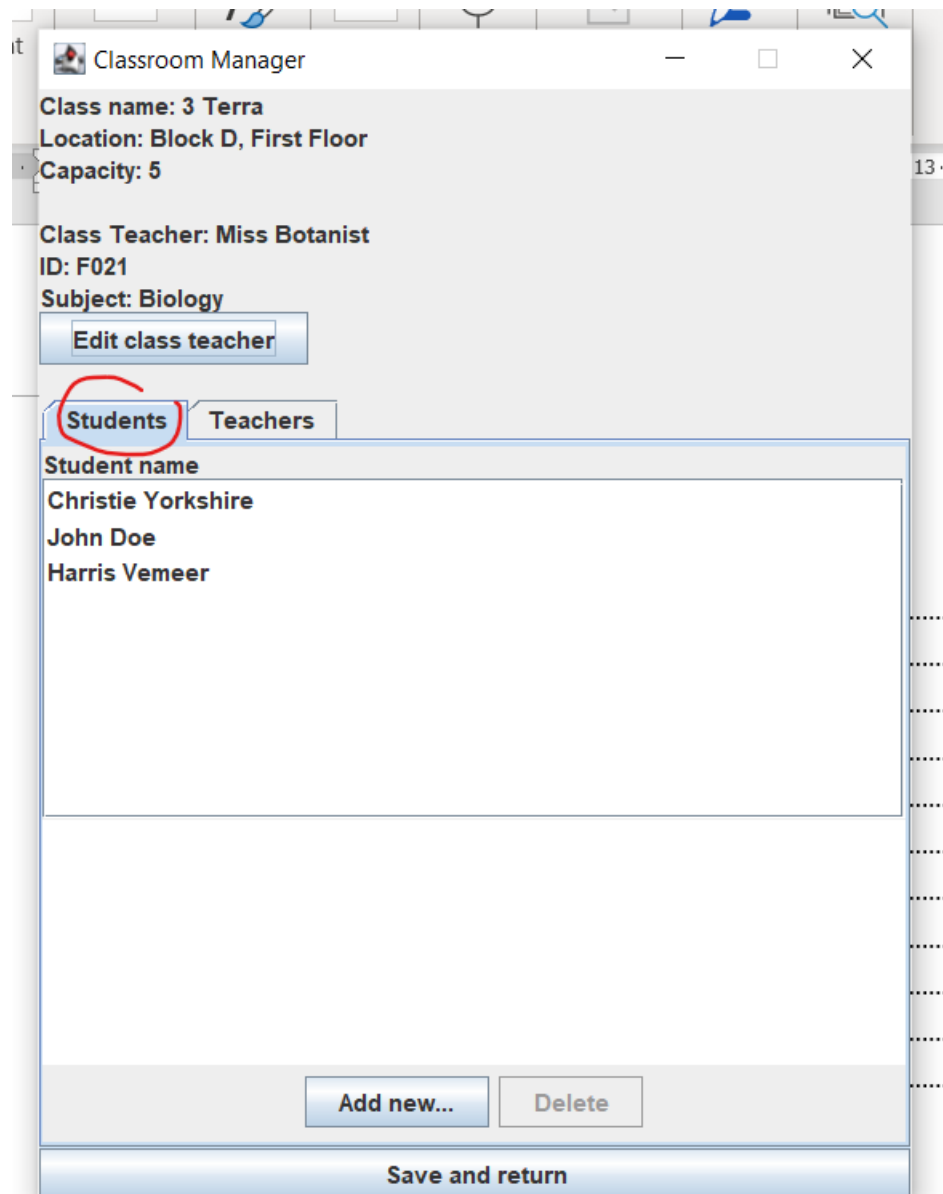
If no details are entered, the class teacher’s details would default to “None”.

Do note that all changes made take effect once the “Enter” button is pressed.

Close the dialog box or press “Cancel” to cancel the process.

2. Add/delete students

Ensure you are on the “Students” tab.



The screenshot shows a window titled "Classroom Manager" with a standard Windows interface (minimize, maximize, close buttons). The window is divided into two main sections. The top section displays class details: "Class name: 3 Terra", "Location: Block D, First Floor", "Capacity: 5", "Class Teacher: Miss Botanist", "ID: F021", and "Subject: Biology". Below this is an "Edit class teacher" button. The bottom section has two tabs: "Students" (which is selected and circled in red) and "Teachers". Under the "Students" tab, there is a list of student names: "Christie Yorkshire", "John Doe", and "Harris Vemeer". At the bottom of the window, there are three buttons: "Add new...", "Delete", and "Save and return".

Classroom Manager

Class name: 3 Terra
Location: Block D, First Floor
Capacity: 5

Class Teacher: Miss Botanist
ID: F021
Subject: Biology

Edit class teacher

Students Teachers

Student name

Christie Yorkshire
John Doe
Harris Vemeer

Add new... Delete

Save and return

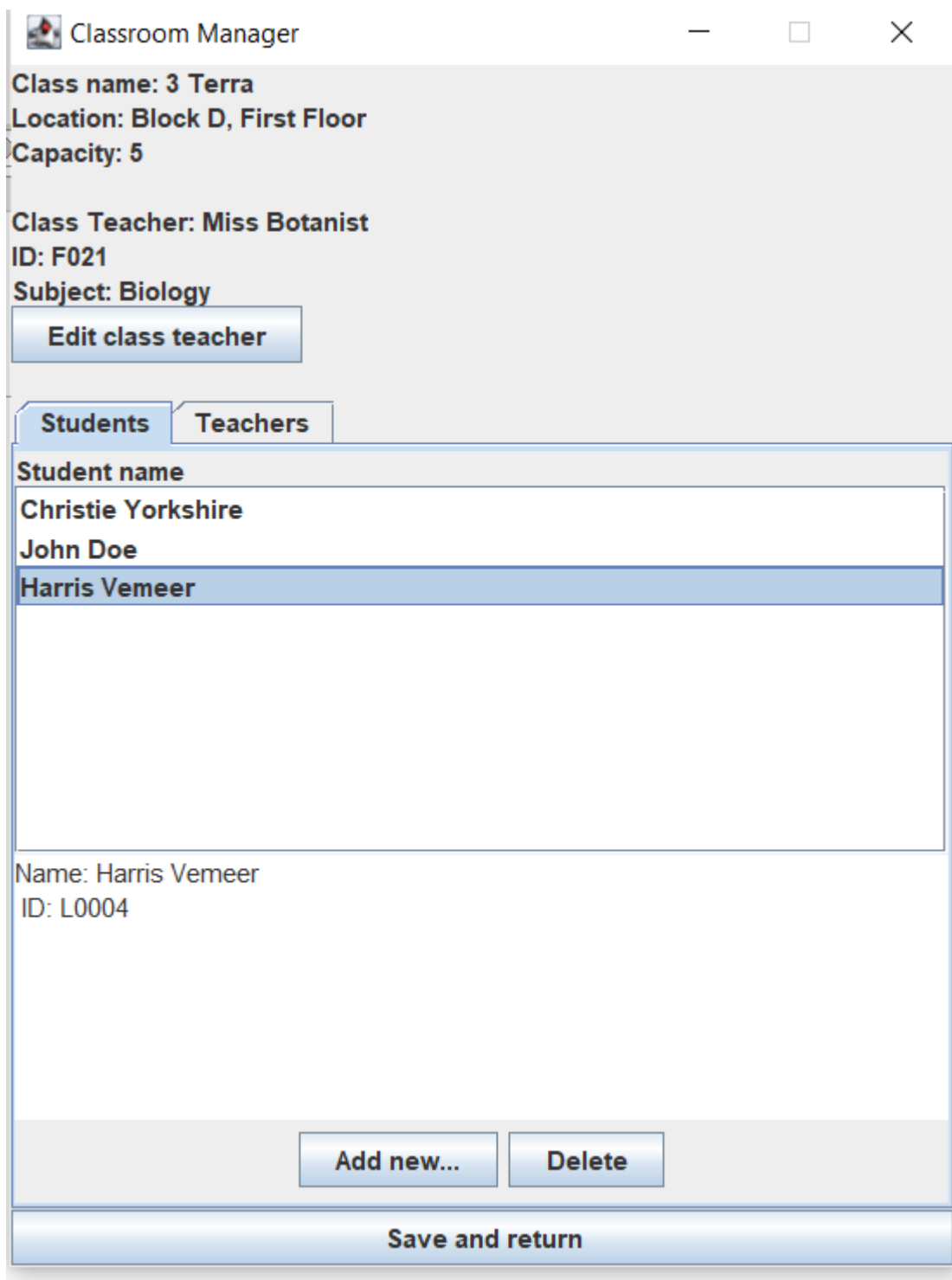
Click on the button “Add new...” to add a new student entry.

The screenshot shows a software interface with a 'Teachers' tab. A dialog box titled 'Add Student' is open, featuring two input fields labeled 'Student:' and 'ID:', and two buttons labeled 'Enter' and 'Cancel'. Below the dialog box, a red arrow points from the 'Add new...' button in the main interface to the 'Enter' button in the dialog box. The main interface also includes a 'Delete' button and a 'Save and return' button at the bottom.

Enter the appropriate details, and press “Enter”.

Do note that there is a limit on how many students can be added, set during classroom creation.
(Capacity)

To delete a student, select their entry from the list.



The screenshot shows a window titled "Classroom Manager" with standard Windows window controls (minimize, maximize, close). The window is divided into several sections. At the top, it displays class information: "Class name: 3 Terra", "Location: Block D, First Floor", and "Capacity: 5". Below this, it shows "Class Teacher: Miss Botanist", "ID: F021", and "Subject: Biology", with an "Edit class teacher" button. A tabbed interface has "Students" selected over "Teachers". Under the "Students" tab, there is a list of student names: "Christie Yorkshire", "John Doe", and "Harris Vemeer". The "Harris Vemeer" entry is highlighted with a blue background. Below the list, the details for the selected student are shown: "Name: Harris Vemeer" and "ID: L0004". At the bottom of the window, there are three buttons: "Add new..." on the left, "Delete" in the middle, and "Save and return" on the right.

Classroom Manager

Class name: 3 Terra
Location: Block D, First Floor
Capacity: 5

Class Teacher: Miss Botanist
ID: F021
Subject: Biology

Edit class teacher

Students Teachers

Student name

Christie Yorkshire
John Doe
Harris Vemeer

Name: Harris Vemeer
ID: L0004

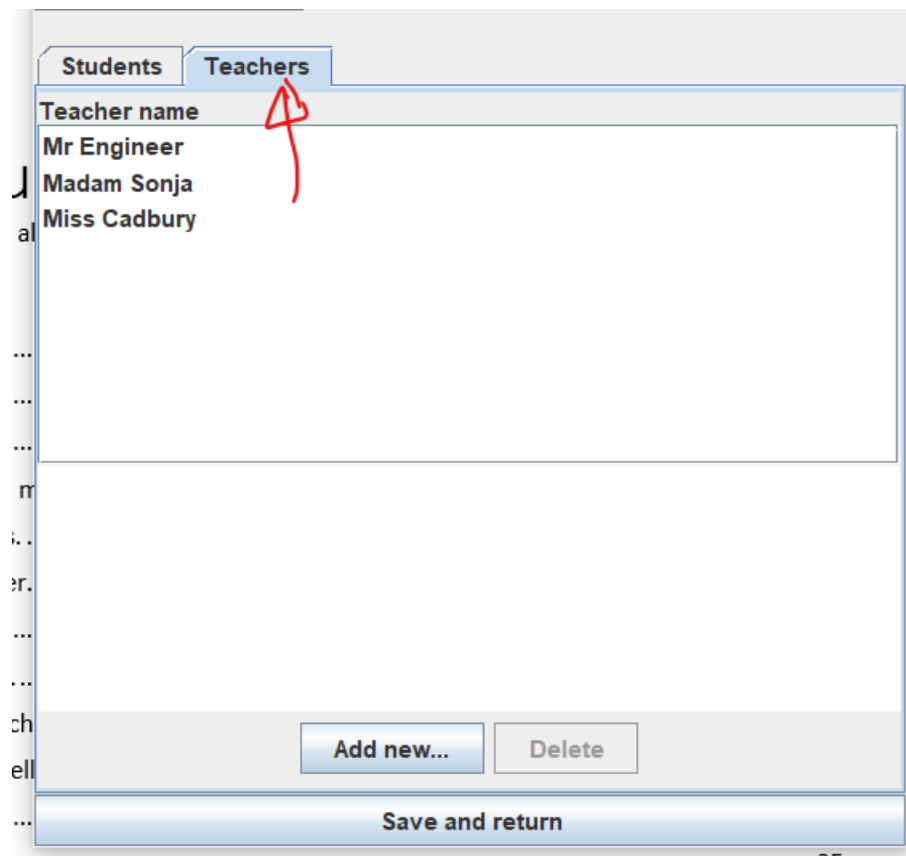
Add new... Delete

Save and return

Click on "Delete" near the bottom, to the right of "Add new...".

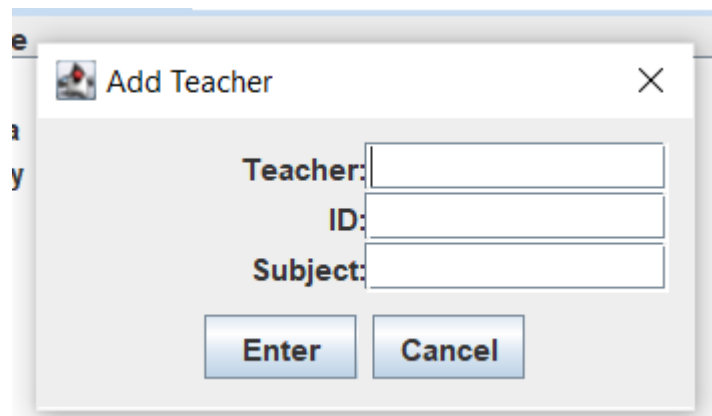
3. Add/delete Teachers

Ensure you are under the “Teachers” tab.



The screenshot shows a software interface with two tabs: "Students" and "Teachers". The "Teachers" tab is selected and highlighted. Below the tabs, there is a list of teacher names: "Mr Engineer", "Madam Sonja", and "Miss Cadbury". A red arrow points to the "Teachers" tab. At the bottom of the interface, there are three buttons: "Add new...", "Delete", and "Save and return".

Select “Add new...” to add a new teacher.



The screenshot shows a dialog box titled "Add Teacher" with a close button (X) in the top right corner. Inside the dialog box, there are three input fields labeled "Teacher:", "ID:", and "Subject:". Below these fields are two buttons: "Enter" and "Cancel".

Select a teacher and press the “Delete” button to delete a teacher.

The screenshot shows a software window with two tabs: 'Students' and 'Teachers'. The 'Teachers' tab is active. Below the tabs is a list of teacher names: 'Mr Engineer', 'Madam Sonja', and 'Miss Cadbury'. 'Miss Cadbury' is highlighted with a blue background. Below the list, there is a section displaying details for the selected teacher: 'Name: Miss Cadbury', 'ID: J0045', and 'Subject: Home Economics'. At the bottom of the window, there are three buttons: 'Add new...', 'Delete', and 'Save and return'.

Teacher name
Mr Engineer
Madam Sonja
Miss Cadbury

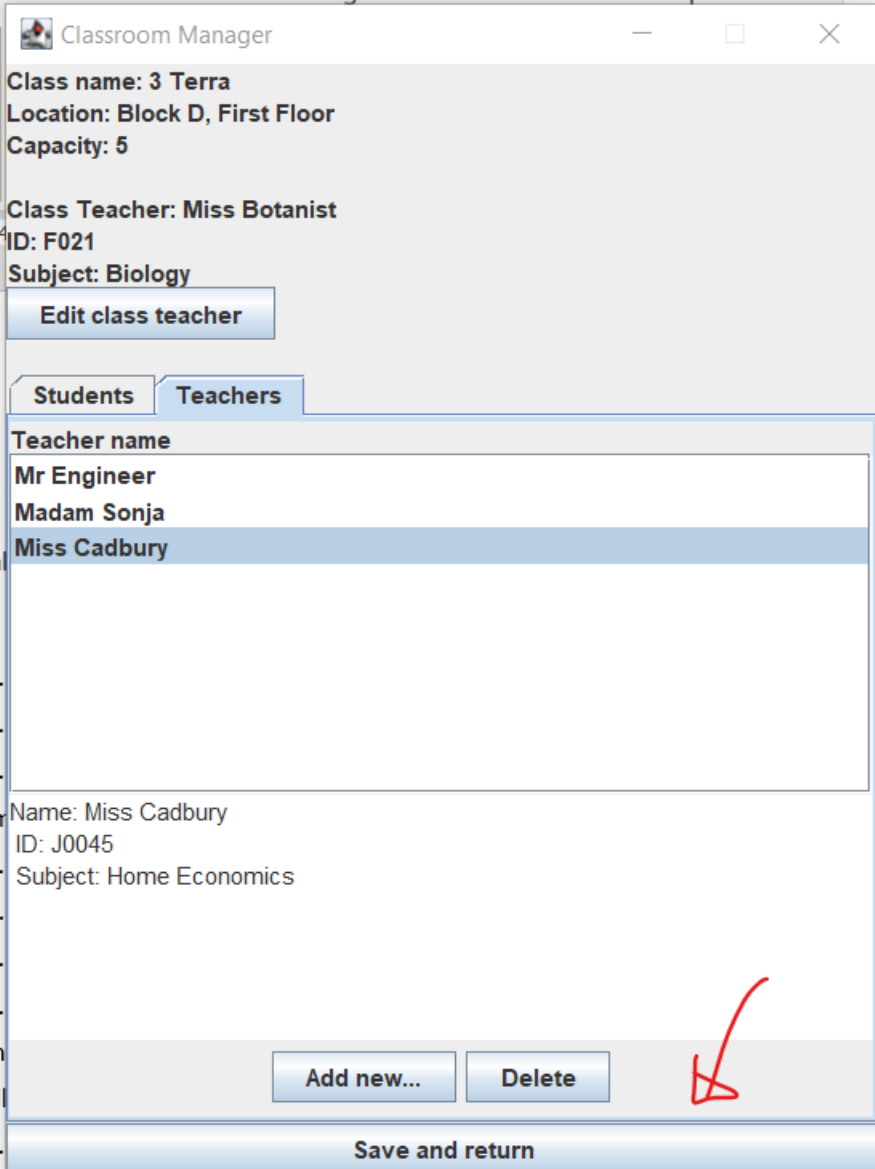
Name: Miss Cadbury
ID: J0045
Subject: Home Economics

Add new... Delete

Save and return

4. Save and return

To save the classroom and return to the menu, click on the bottommost button in the window, labelled "Save and return".



The screenshot shows a window titled "Classroom Manager" with the following details:

- Class name:** 3 Terra
- Location:** Block D, First Floor
- Capacity:** 5
- Class Teacher:** Miss Botanist
- ID:** F021
- Subject:** Biology

Below these details is a button labeled "Edit class teacher".

There are two tabs: "Students" and "Teachers". The "Teachers" tab is active, showing a list of teachers:

- Mr Engineer
- Madam Sonja
- Miss Cadbury (highlighted)

Below the list, the details for the selected teacher are shown:

- Name:** Miss Cadbury
- ID:** J0045
- Subject:** Home Economics

At the bottom of the window, there are three buttons: "Add new...", "Delete", and "Save and return". A red checkmark is drawn over the "Save and return" button.

Deleting classrooms

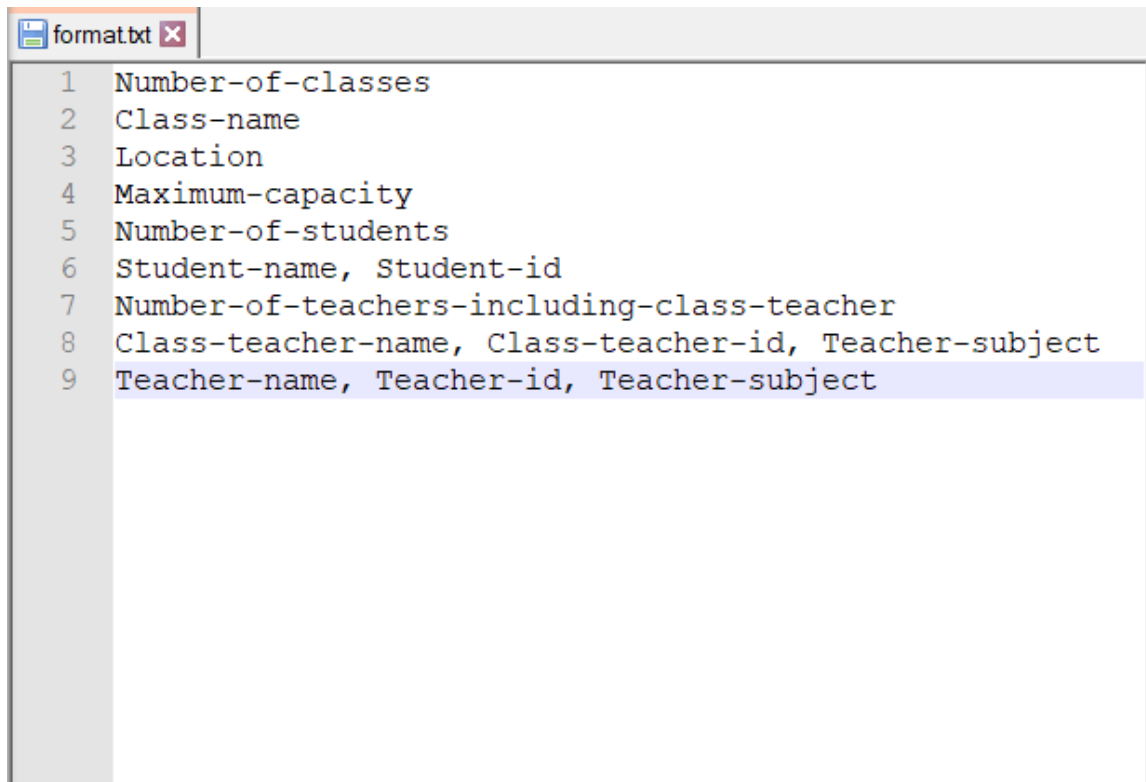
To delete a classroom, select the classroom you would like to delete, and press “Delete class”.



Adding from File

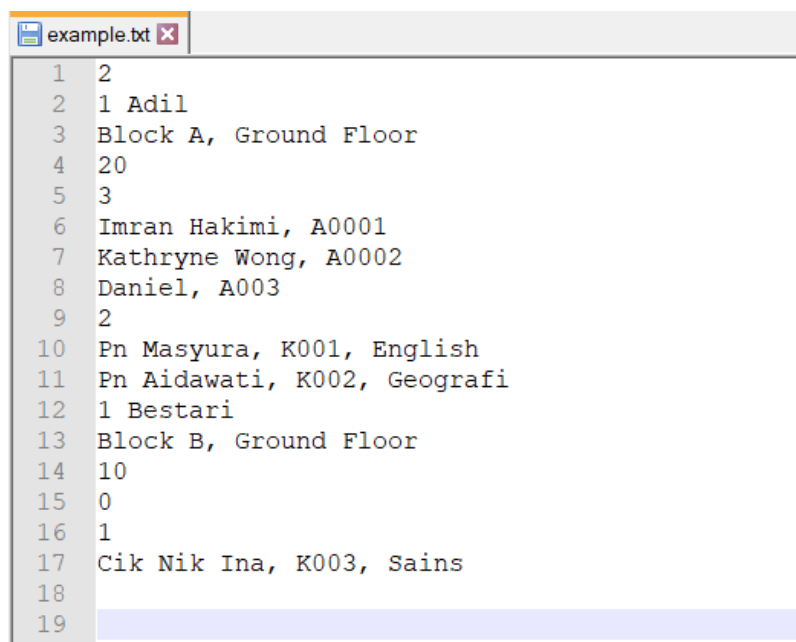
Classroom Manager supports adding classrooms to the system from file. The text only need to be in the correct format. Currently, only .txt files are supported.

The format of a readable text file is as follows:



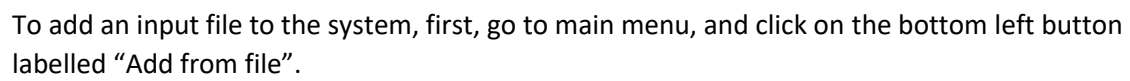
```
1 Number-of-classes
2 Class-name
3 Location
4 Maximum-capacity
5 Number-of-students
6 Student-name, Student-id
7 Number-of-teachers-including-class-teacher
8 Class-teacher-name, Class-teacher-id, Teacher-subject
9 Teacher-name, Teacher-id, Teacher-subject
```

Here is an example.

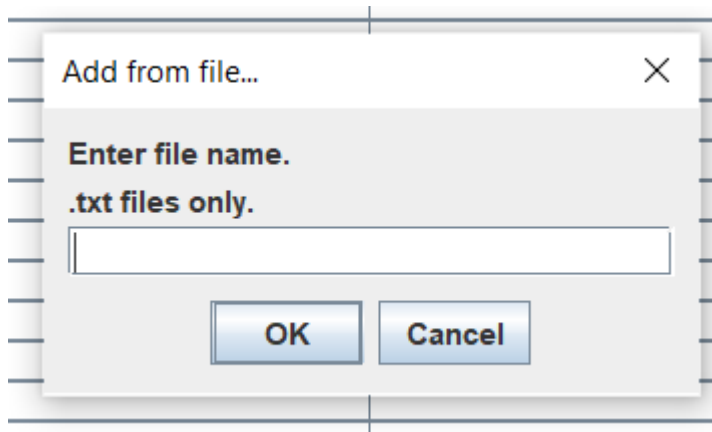


```
1 2
2 1 Adil
3 Block A, Ground Floor
4 20
5 3
6 Imran Hakimi, A0001
7 Kathryne Wong, A0002
8 Daniel, A003
9 2
10 Pn Masyura, K001, English
11 Pn Aidawati, K002, Geografi
12 1 Bestari
13 Block B, Ground Floor
14 10
15 0
16 1
17 Cik Nik Ina, K003, Sains
18
19
```

To add an input file to the system, first, go to main menu, and click on the bottom left button labelled “Add from file”.



You will be prompted to input a file name. Enter the file name, either with or without the extension.



The program will skip over any classroom that are duplicates. (Identified via unique ID manually assigned by users.)

Deleting classrooms

Classrooms can be deleted by first selecting the classroom entry you want to delete, then press the “Delete class” button.

