



18641 Android Testing Document

GPA++

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Introduction

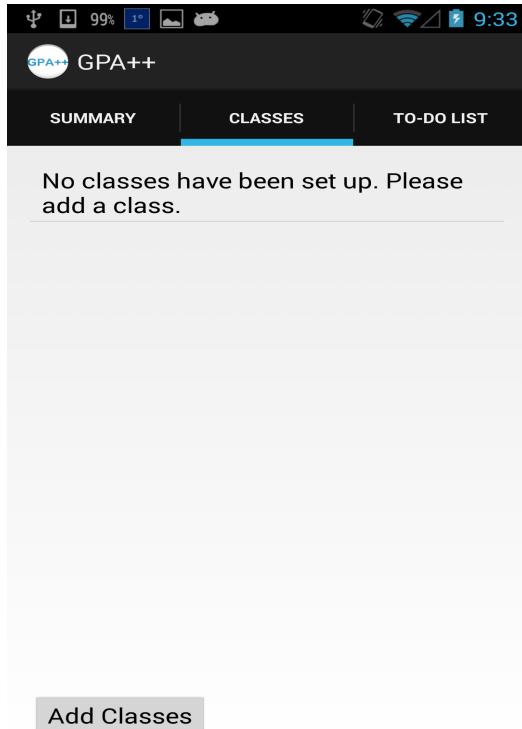
This test document describes the test cases executed on the use cases set out in our Android Project Proposal document. The types of test cases include functional, negative and boundary test conditions, and the corresponding results are displayed via screenshot images.

1. Test Cases for Use Case 1 - Add, View, Edit and Delete Classes

1.1. Functional Test Case

1.1.1. Add Class

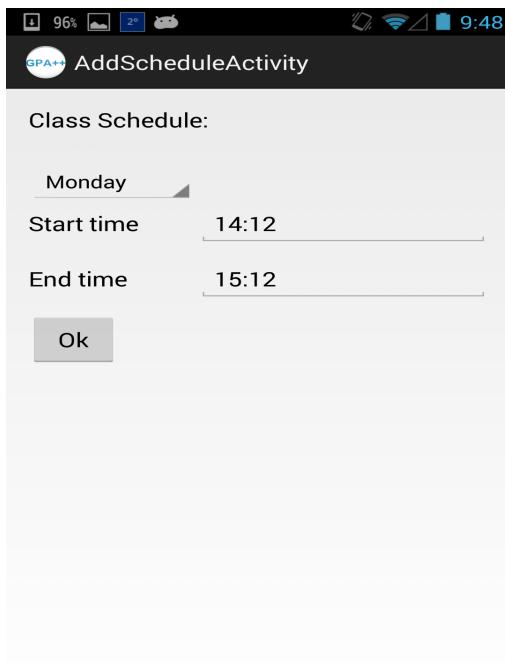
1. Go to the Classes fragment



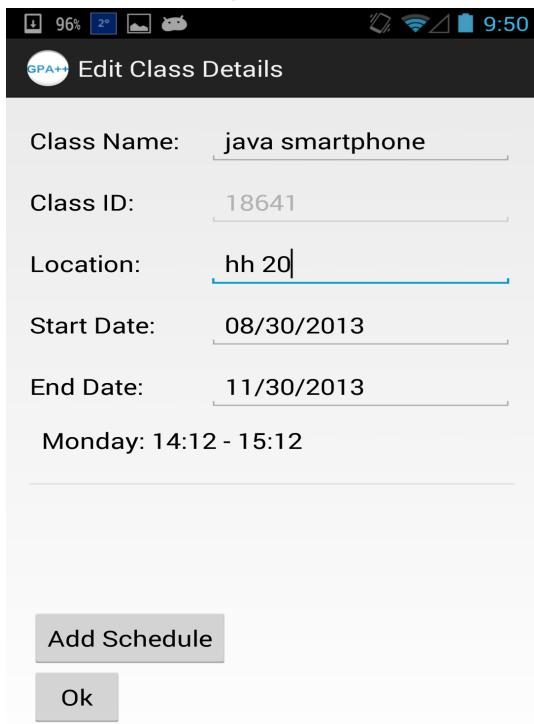
2. Tap the “Add Classes” button, fill out the relative information of the added class



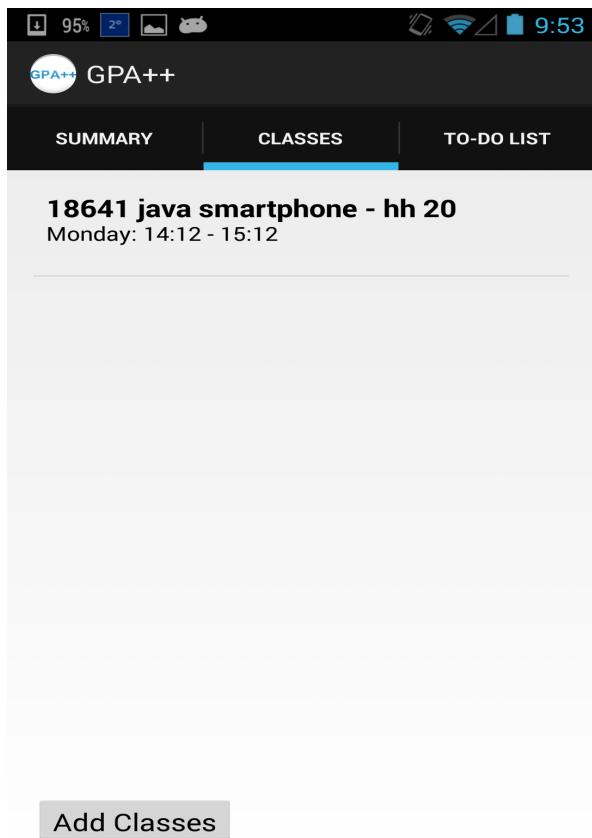
3. Tap the “Add Schedule” button, and fill out the relative of the schedule and tap on the “Ok” button.



4. The app will automatically go back to the adding class interface with the schedule now shown in the list. Now tap on the “Ok” button.

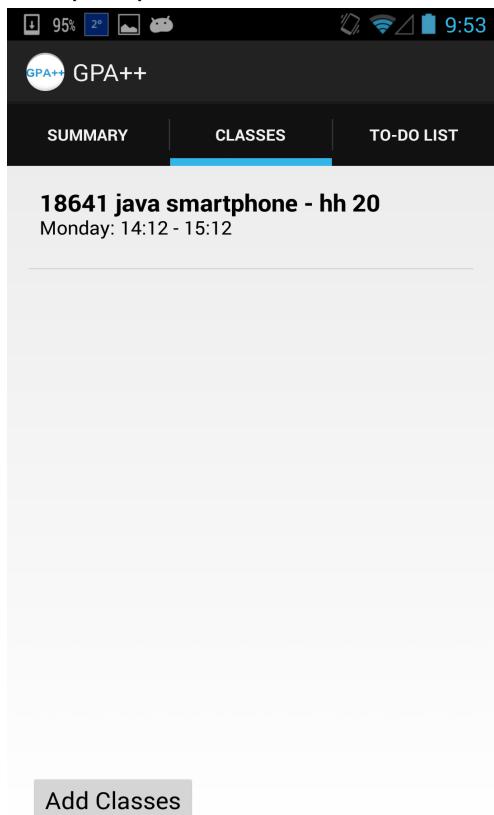


5. The app will go back to the Classes fragment after tapping on the “Ok” button, and we will see the added class.

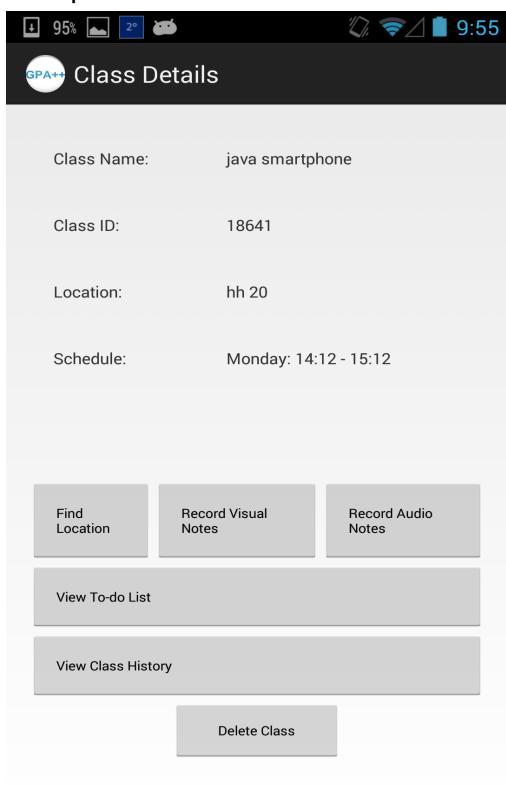


1.1.2. View Class

1. Tap a specific class in the Classes fragment.

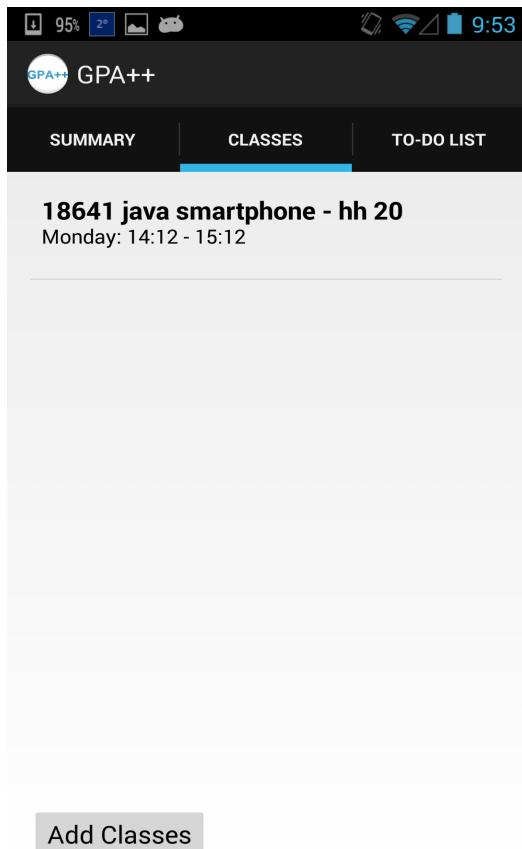


2. Tap on a class to view its details

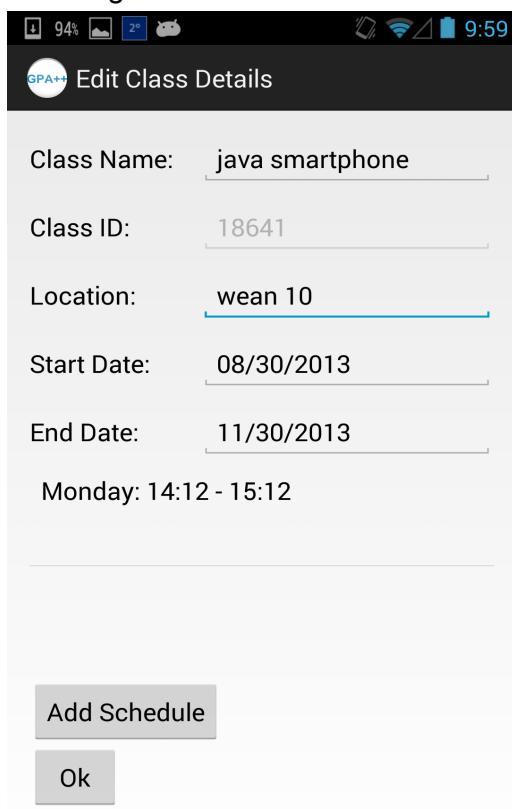


1.1.3. Edit Class

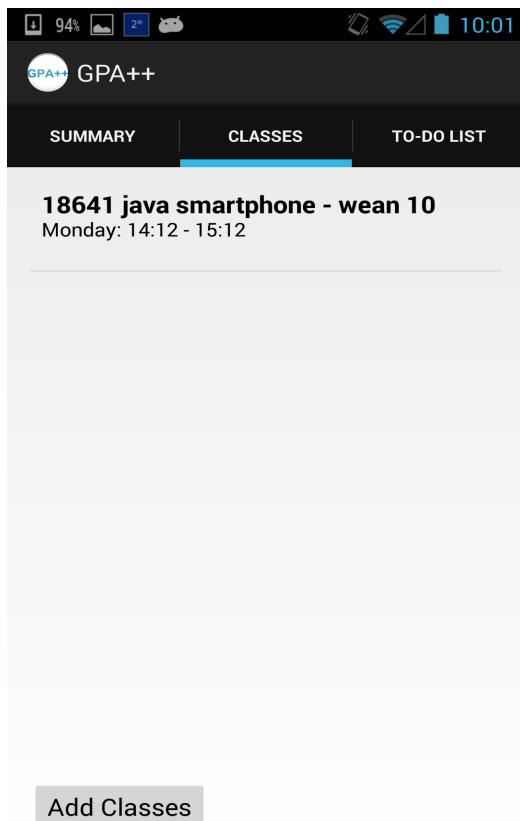
1. Long tap a specific class in the Classes fragment to edit it.



2. Change this class's location from "HH 20" to "wean 10". Then tap the "Ok" button.

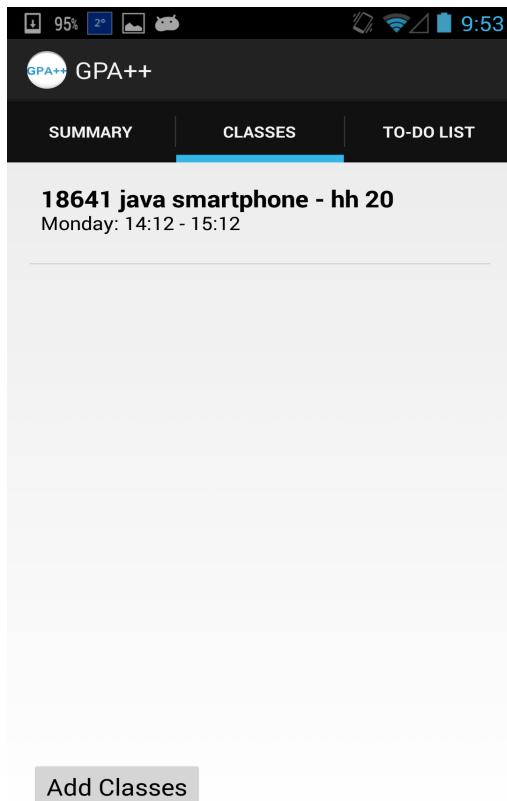


3. Now we can see the edited class in the classes fragment.

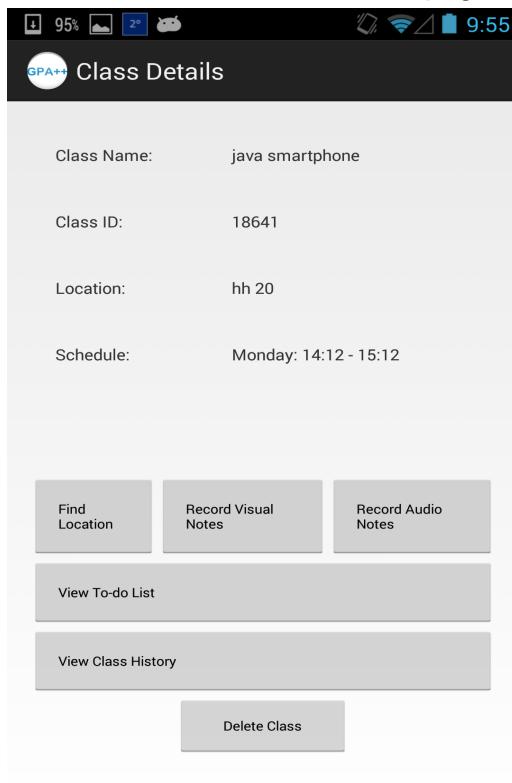


1.1.3. Delete class

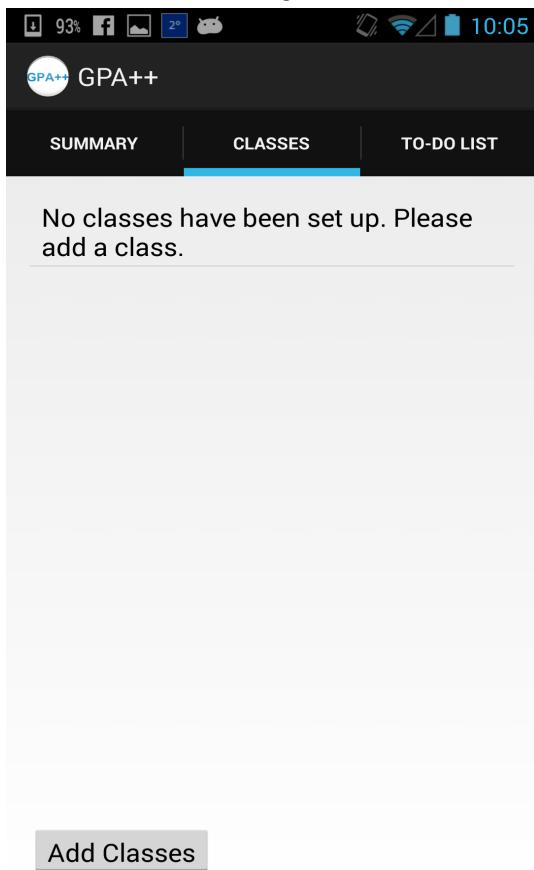
1. Tap a specific class in the classes fragment.



2. We will see the class's detail page, and now tap on the “Delete Class” button.

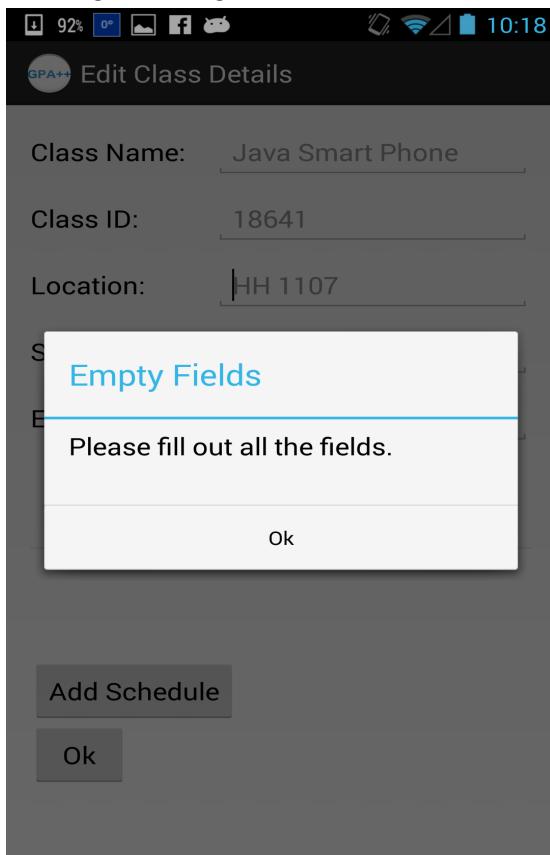


3. Go to the class fragment and no classes are listed there.

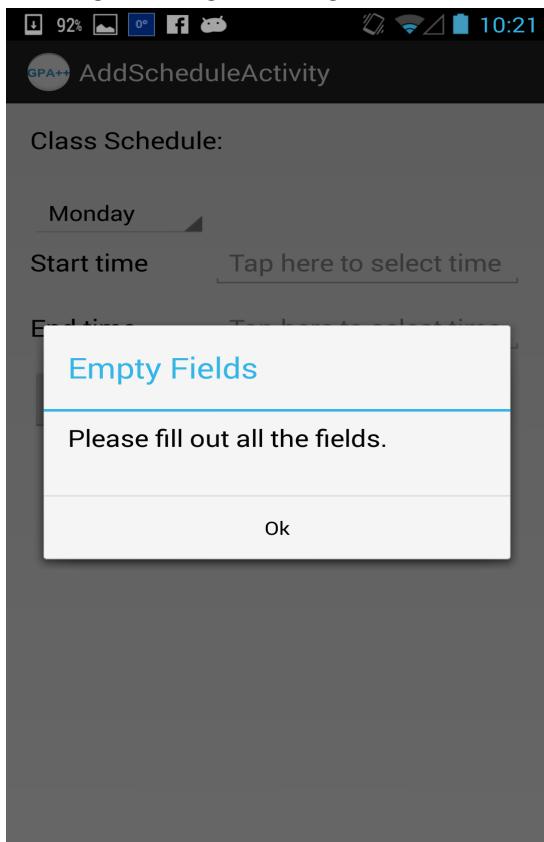


1.2. Negative Test Case

1. When add a new class or edit a class, if any of the blank is empty, there would be a warning message coming out.



2. When add a new schedule or edit a schedule, if any of the blank is empty, there would be a warning message coming out.

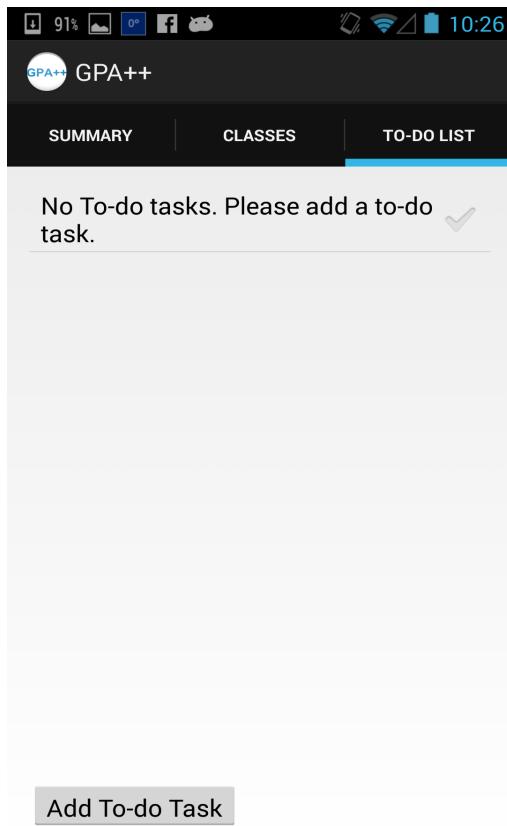


2. Test Cases for Use Case 2 - Add, View, Edit and Delete To-do Tasks

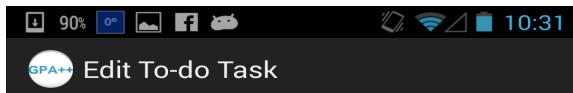
2.1. Functional Test Case

2.1.1. Add Task

1. Swipe to the to-do List fragment and tap the “Add To-do Task” button.



2. Fill out the details of the added task and tap the “Ok” button.



Task Name: java smartphone hw

Due Date: 12/02/2013, 22:12

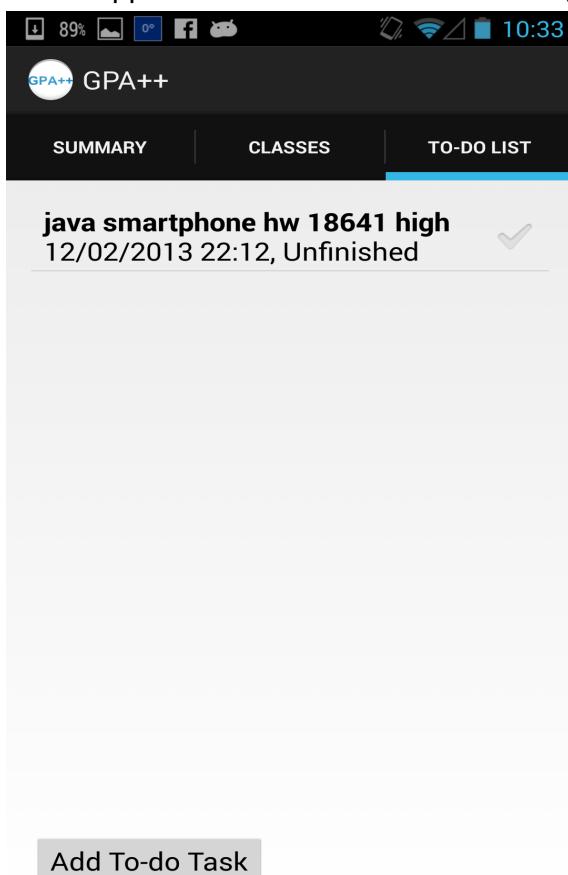
Class ID: 18641

Priority: high

Ok

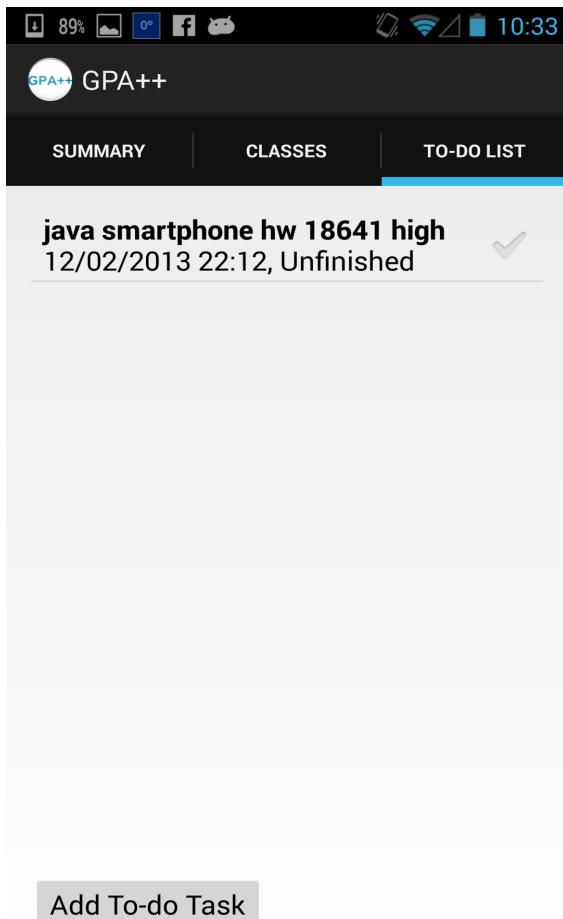
Delete

3. The app will direct us to the to-do list fragment and we can see the added task there.



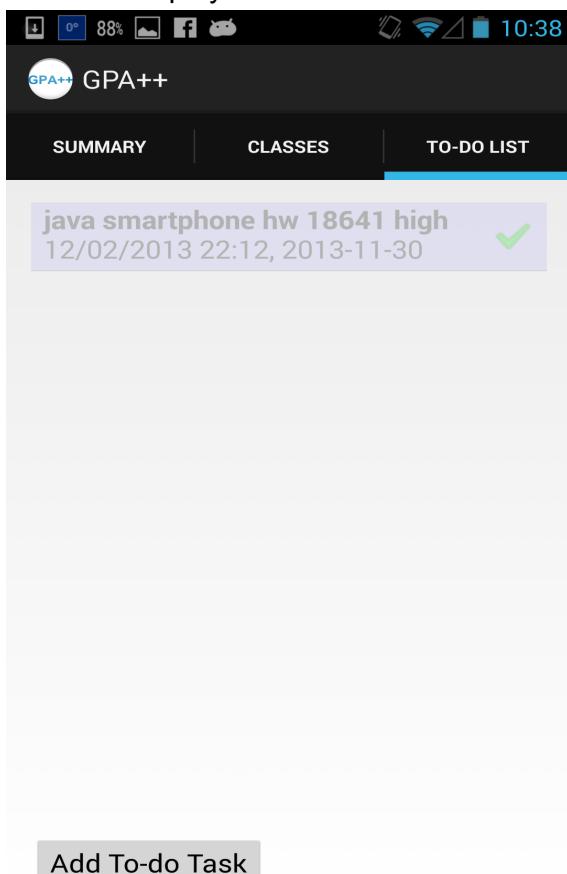
2.1.2. View Task

1. View the task in the to-do list fragment.

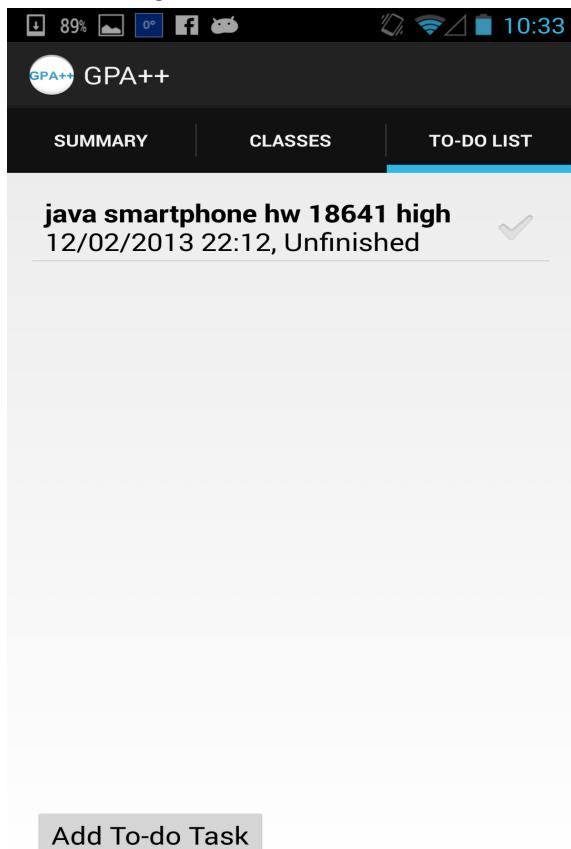


2.1.3. Edit Task

1. Short tap the task in the to-do list fragment to check the task and the completion of such task would be displayed.



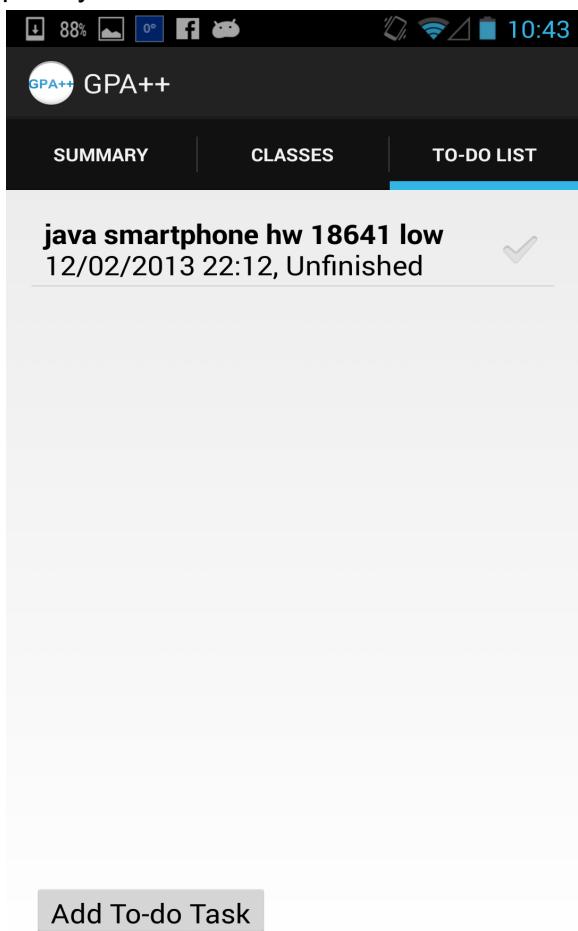
2. Short tap this task again, this task would be un-checked and the “Unfinished” label would come out again.



3. Long tap the task to direct to the editing task page and change the priority from high to low. Then tap on the “Ok” button.

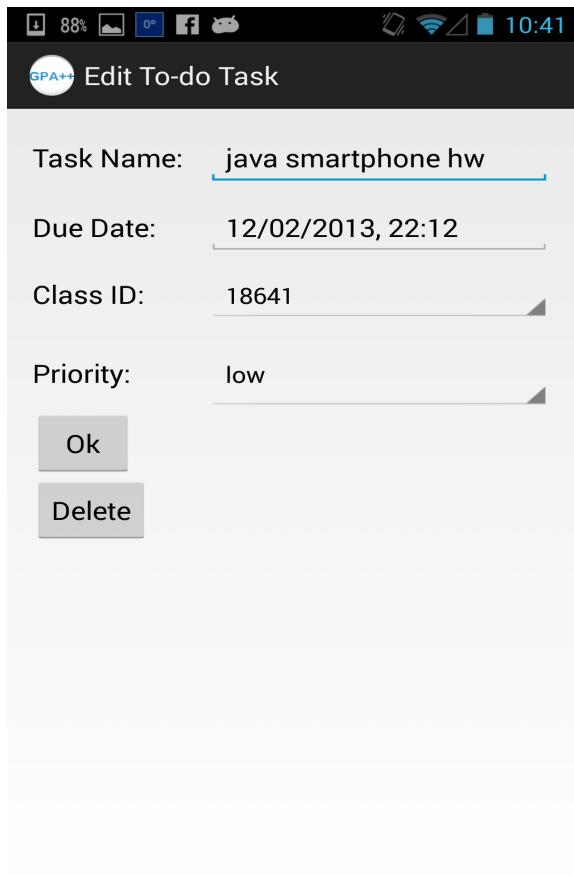


4. The app will direct us back to the to-do list fragment and we can see the change of the task's priority.

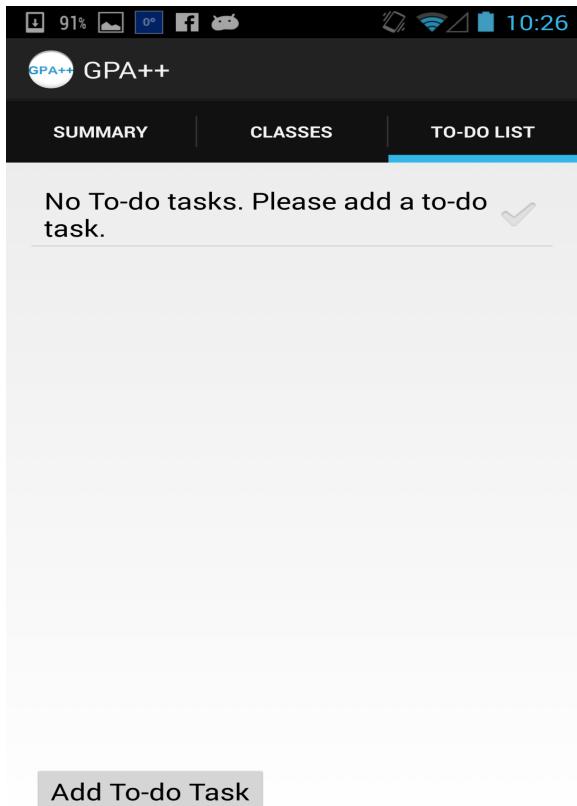


2.1.4. Delete Task

1. Long tap the task in the to-do list fragment to direct to the deleting task page.

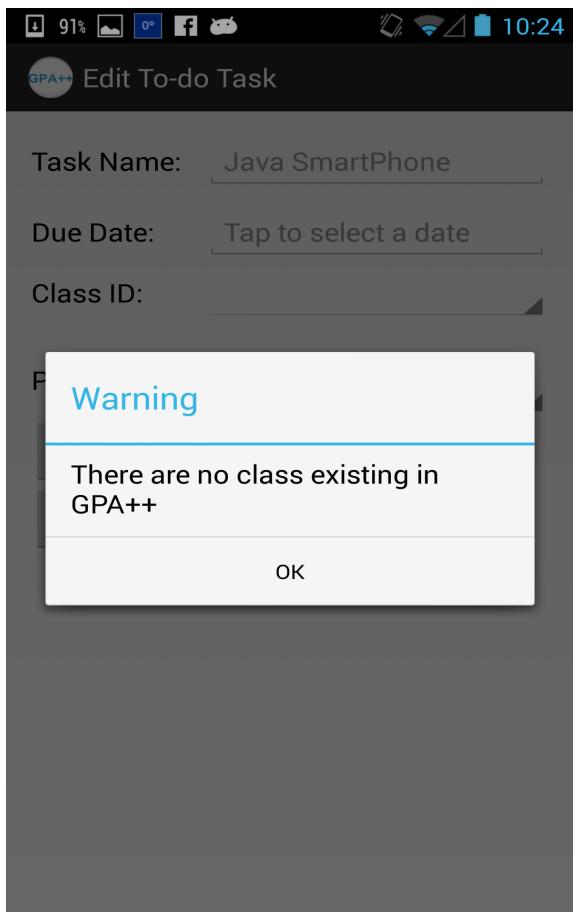


2. Tap on the “Delete” button and direct back to to-do list fragment.

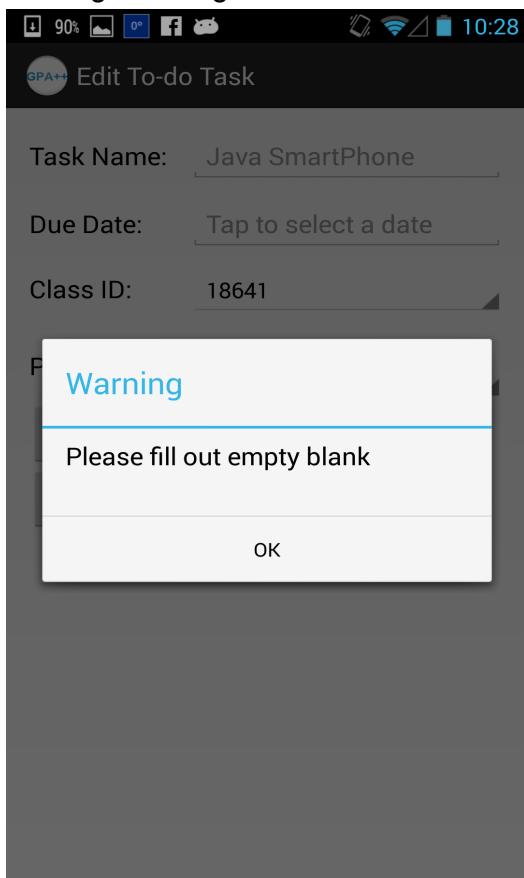


2.2. Negative Test Case

1. If there are no classes in GPA ++, then a warning message would come out when users try to add task.



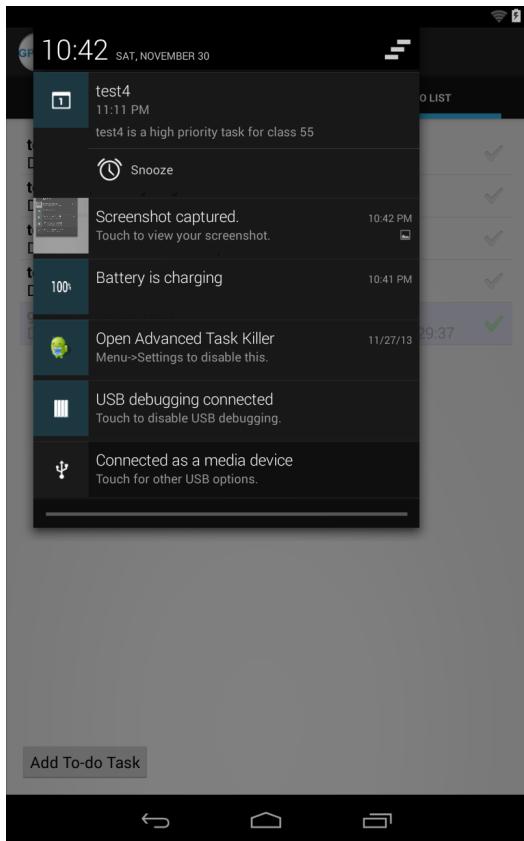
2. When adding a new task or edit a task, if any of the blank is empty, there would be a warning message coming out.



3. Test Cases for Use Case 3 - Remind Events

3.1. Functional Test Case

1. After a class or to-do task has been set with a schedule, wait till 30 minutes before the event.
2. A calendar notification will appear 30 minutes before the event.

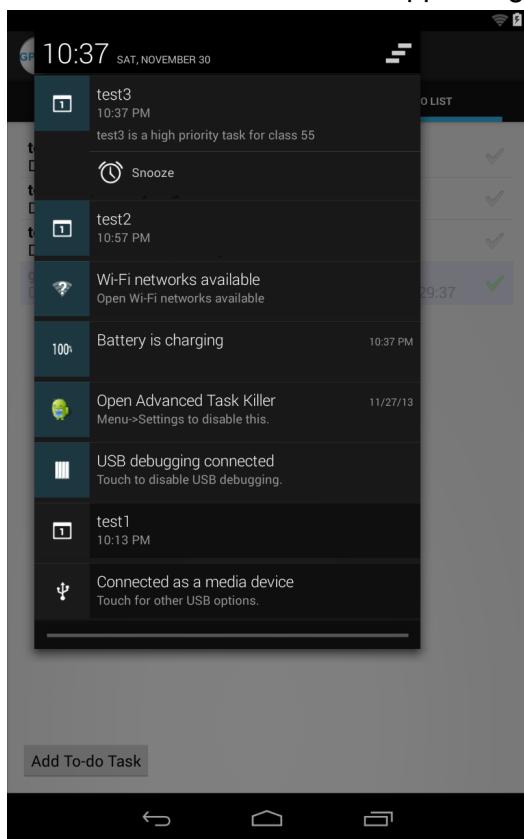


3.2. Negative Test Case

1. Set a to-do task that has already passed the due date.
2. No calendar event will show up.

3.3. Boundary Test Case

1. Set a to-do task with a due date that is exactly the current time.
2. A calendar notification will appear right away.

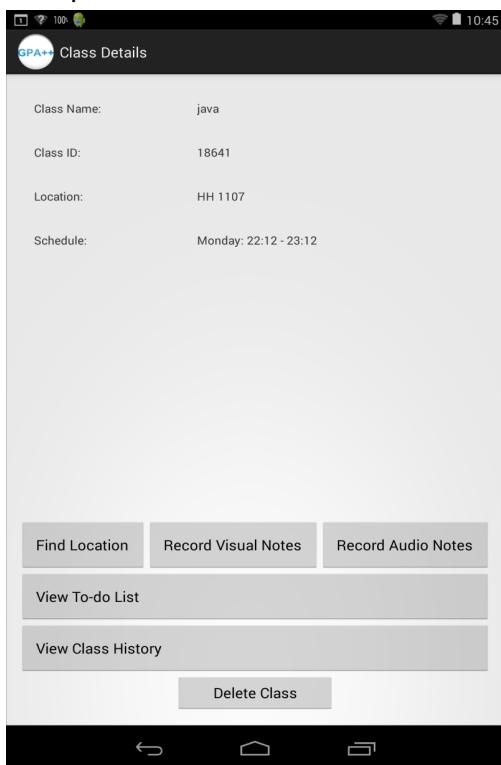


4. Test Cases for Use Case 4 - Find Class Location

4.1. Functional Test Case

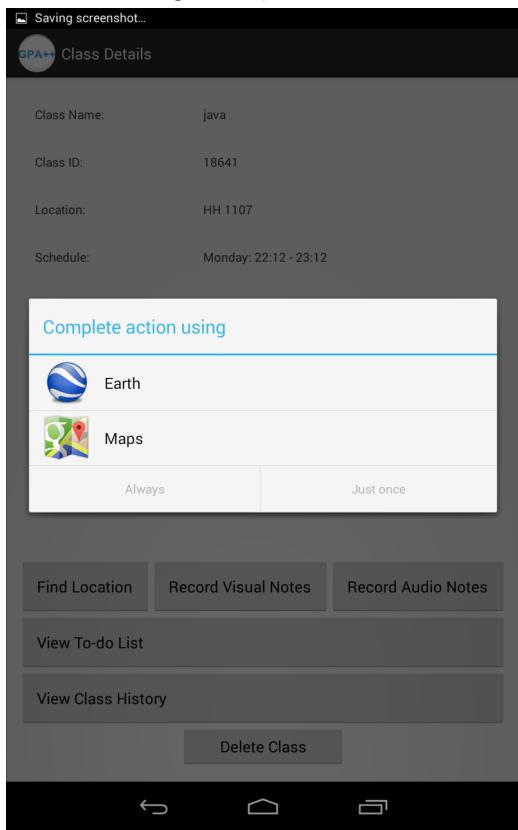
1. Go to the classes fragment.

2. Tap on a class to view its details. Select a class that has a valid location.

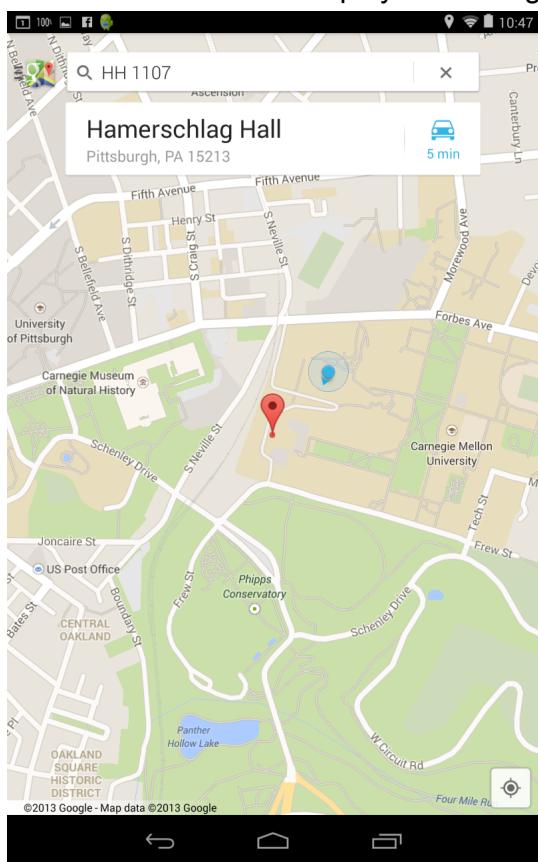


3. Tap on the Find Location button.

4. An app selector will pop up to allow the user to choose the app to view the map location. Choose Google Maps.

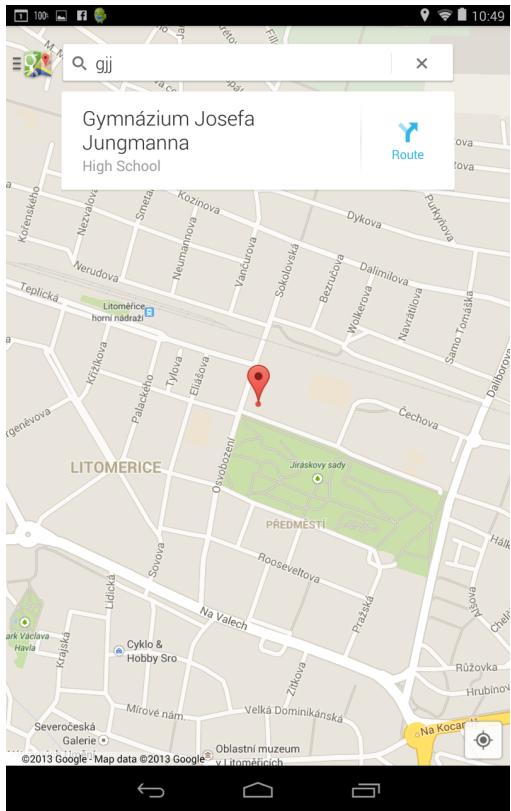


5. The location is now displayed in Google Maps.



4.2. Negative Test Case

1. Same as step 1 in 4.1.
2. Same as step 2 in 4.1, except choose a class that has an invalid location.
3. Tap on the Find Location button.
4. Same as step 4 in 4.1.
5. Google Maps will try its best to locate this class.

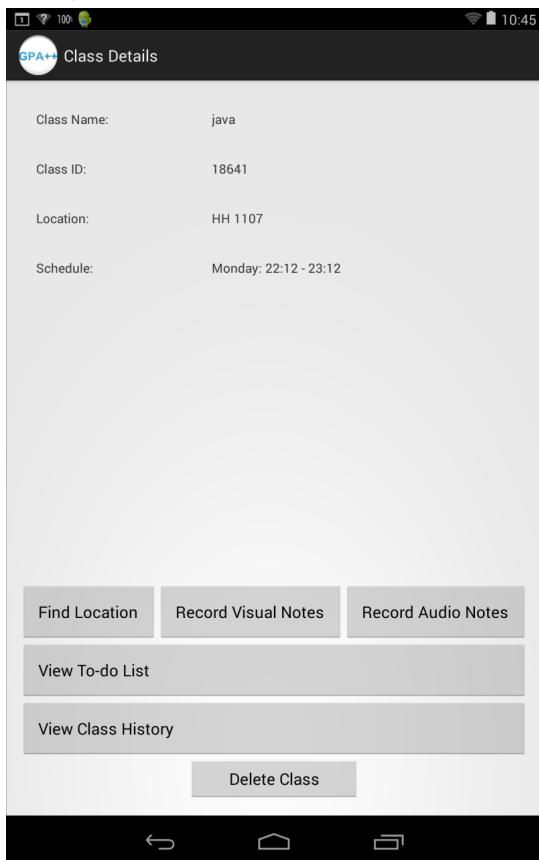


5. Test Cases for Use Case 5 - Share Notes

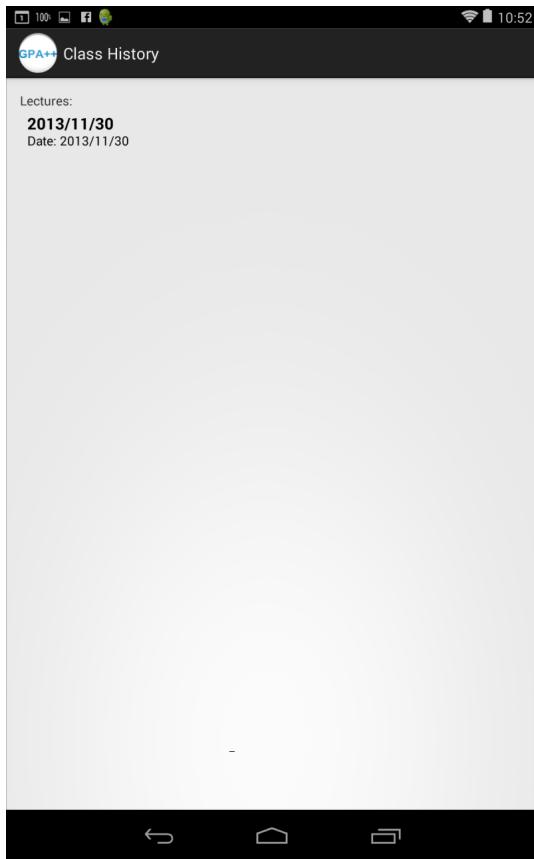
5.1. Functional Test Case

1. Go to the classes fragment.

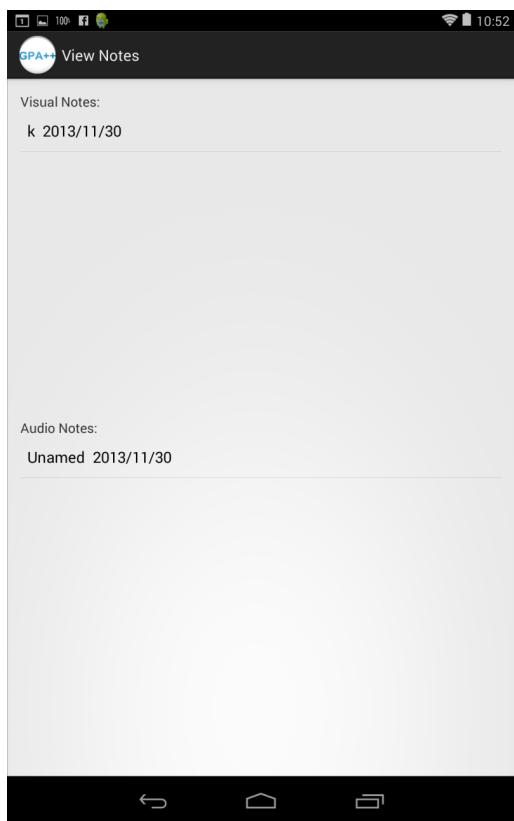
2. Tap on a class to view its details.



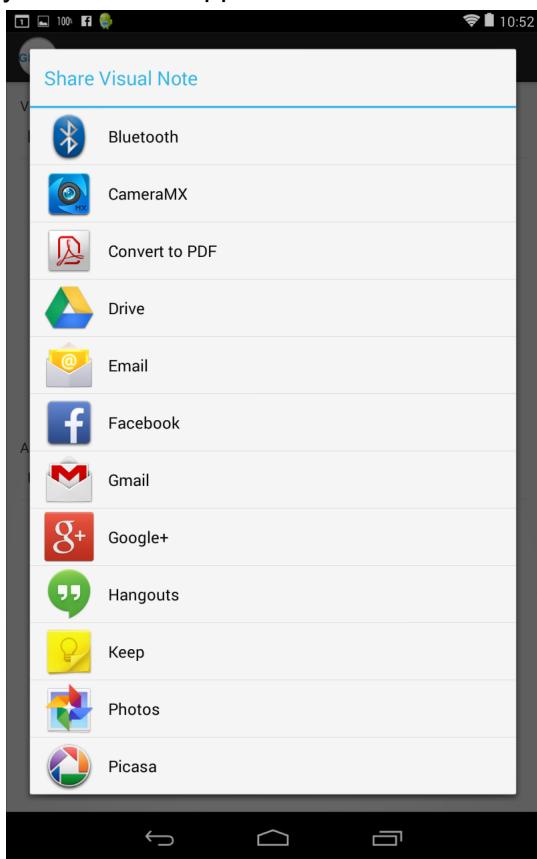
3. Tap on the View Class History button to see the history of lectures.



4. Select a lecture from the list. Note: There must already be a lecture note recorded, or else this won't work.



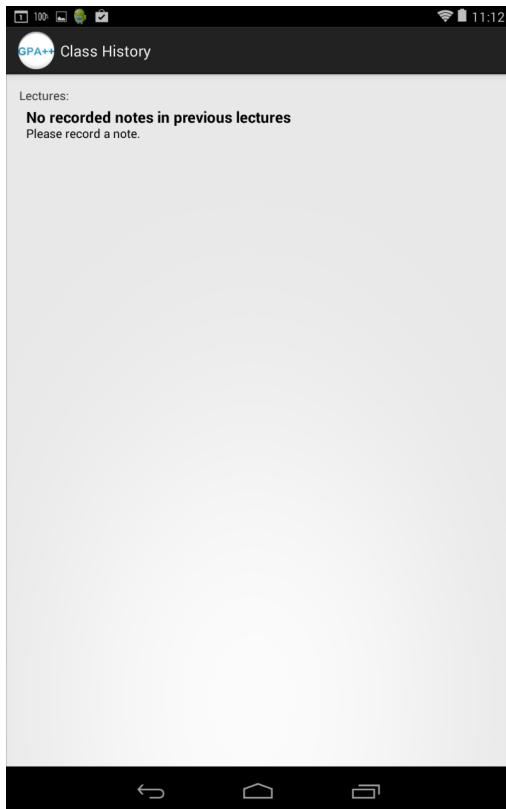
5. Long tap on a recorded note (either Visual or Audio), and an app selector should appear to let you select an app to share this recorded note.



6. Select a sharing app to share the recorded note.

5.2. Negative Test Case

1. Go to the classes fragment.
2. Tap on a class to view its details.
3. Tap on the View Class History button.
4. The class has no recorded note, so the lectures list is empty.



5.3. Boundary Test Case

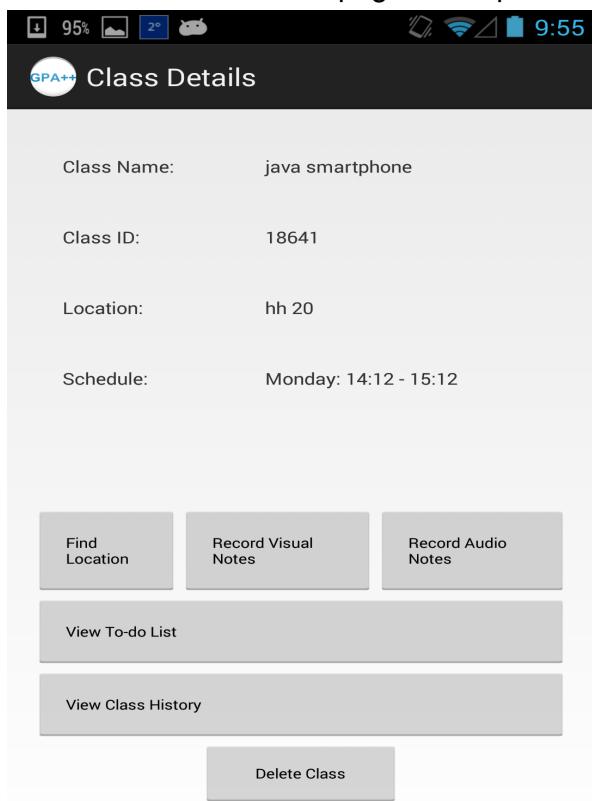
1. Go to the classes fragment.
2. Tap on a class to view its details.
3. Tap on the View Class History button.
4. Select a lecture from the list. Note: There must already be a lecture note recorded, or else this won't work.
5. Long tap on a recorded note, only visual note has been taken so long tap the visual note, and an app selector should appear to let you select an app to share this recorded note.
6. Select a sharing app to share the recorded note.

6. Test Cases for Use Case 6 - Record Notes

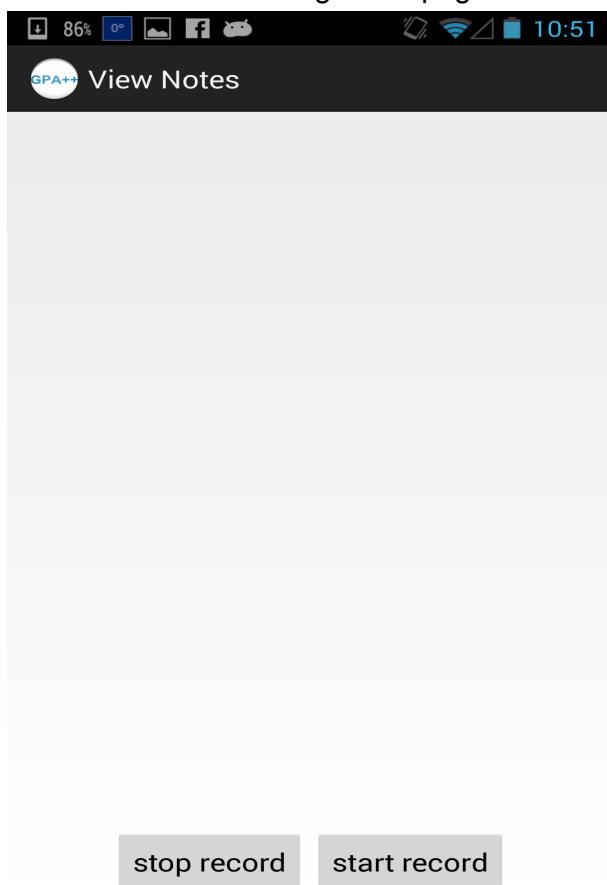
6.1. Functional Test Case

6.1.1. Record Audio

1. Direct to a class detail page and tap on the “Record Audio Notes” button.



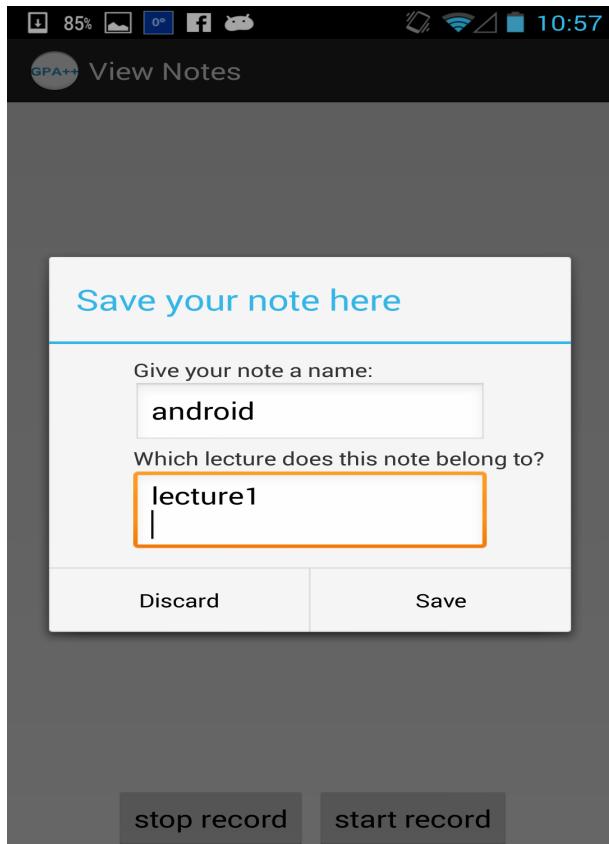
2. Direct to the recording audio page.



3. Tap on the “start record” button to record audio.

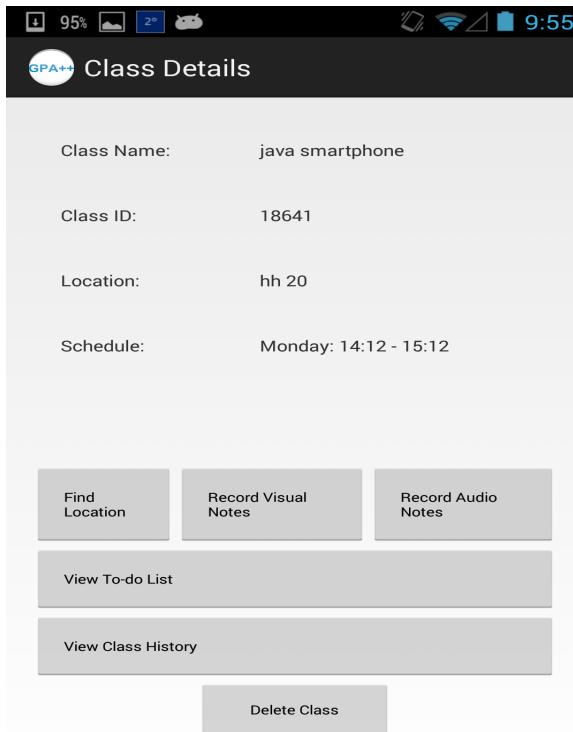


4. Type the “stop record” button and a dialog would come out to fill out some information for this recorded audio. If you want to save this record, choose “save” button, otherwise “Discard” button.

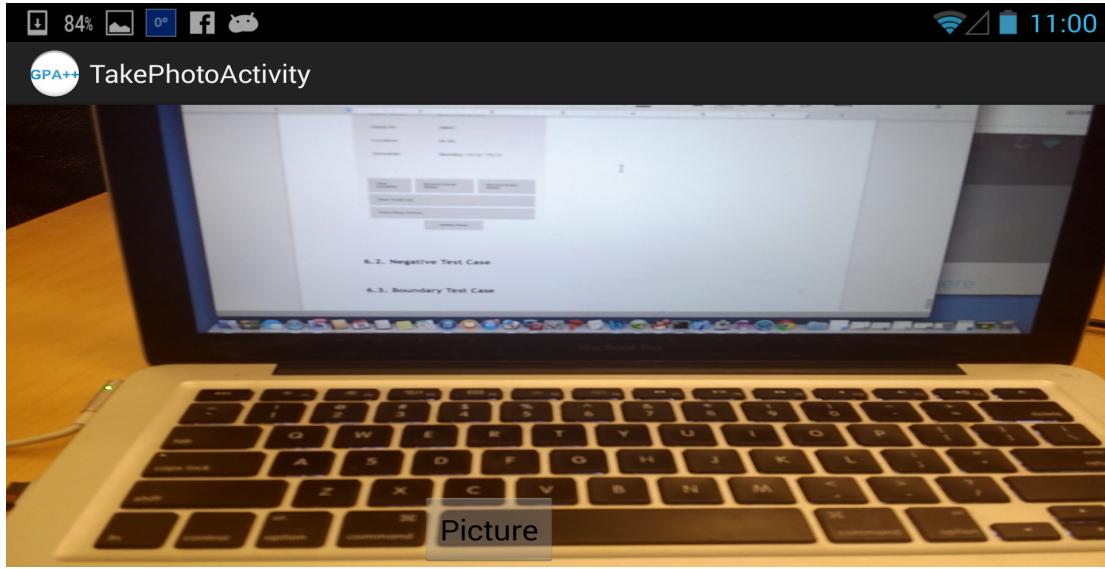


6.1.2. Record Picture

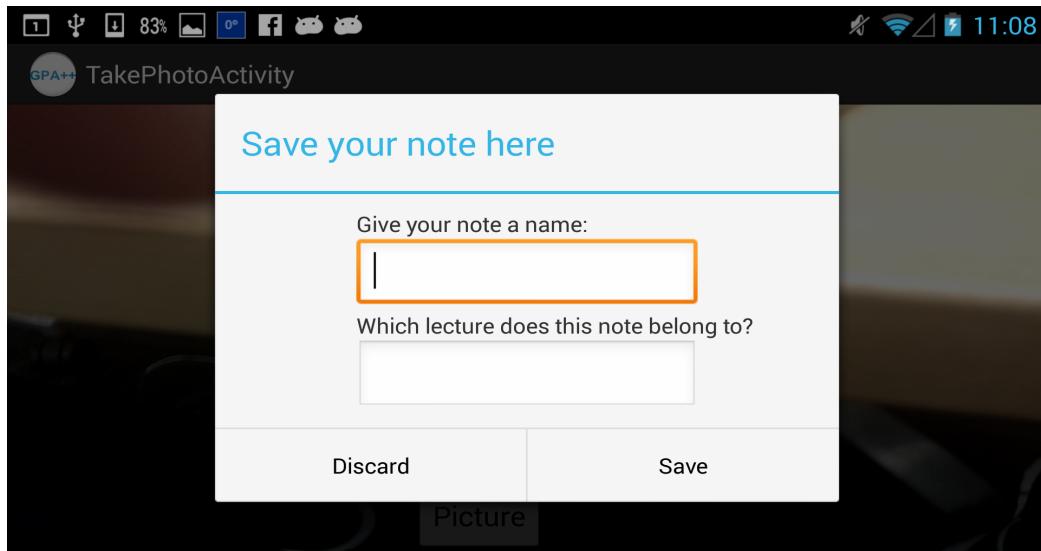
1. Direct to a class detail page and type “Record Visual Notes” button.



2. Direct to the recording picture page

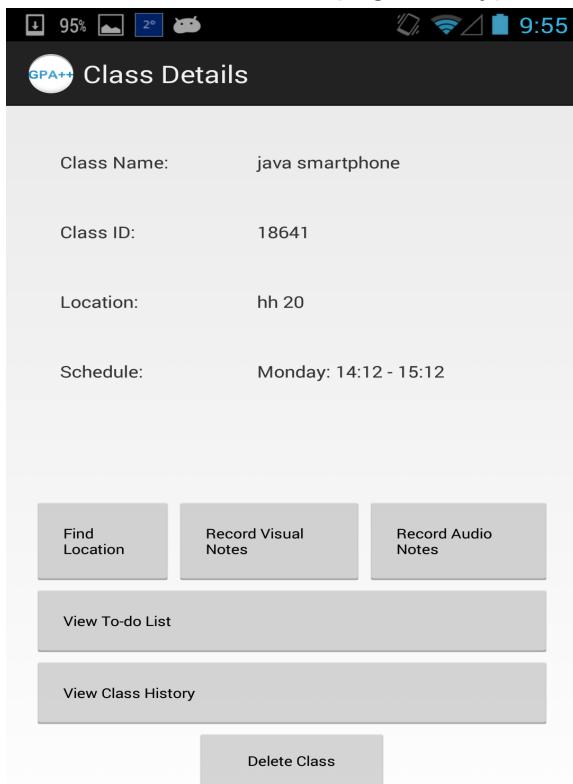


3. Tap the “Picture” button to take a visual note and a dialog would come out to fill out some information for this recorded audio. If you want to save this record, choose “save” button, otherwise “Discard” button.

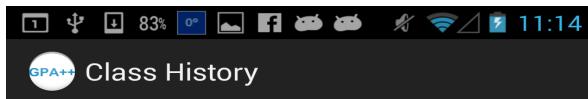


6.1.3. View Historical Notes

1. Direct to a class detail page and type “View Class History” button.



2. Direct to the historical note category page.



Lectures:

lecture2

2013/11/30

3. Tap the note category: “lecture 2” and direct to the note list page of this category.



4. Users can tap the notes to view or listen to them.

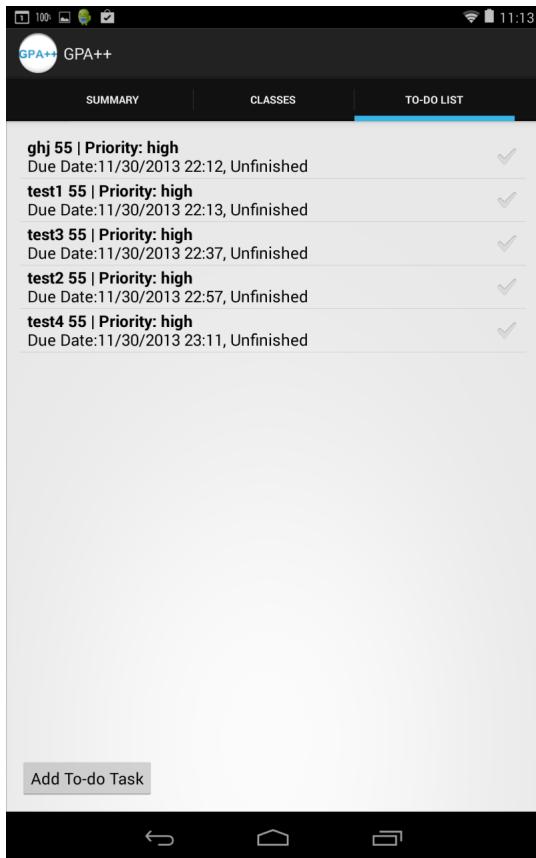
6.2. Negative Test Case

1. Failing to provide note name or lecture name would lead to warning dialog.

7. Test Cases for Use Case 7 - Prioritize To-do Tasks

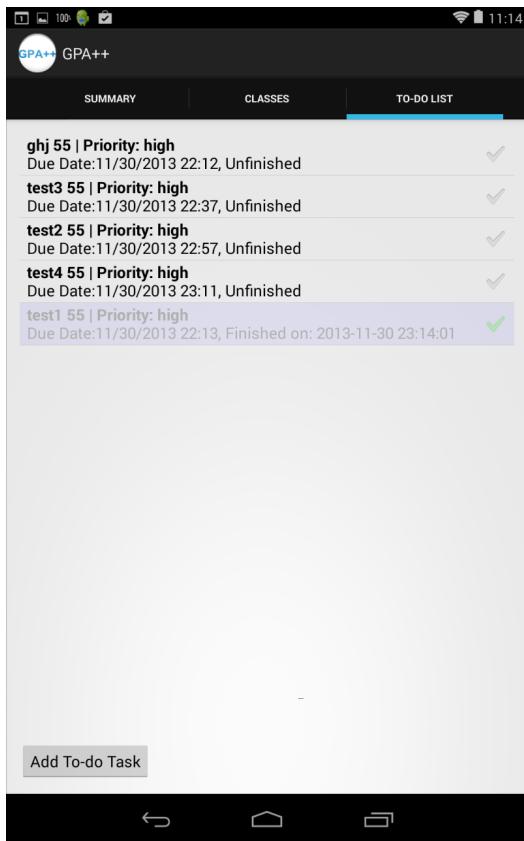
7.1. Functional Test Case

1. Go to the To-do List fragment.



2. Tap on a to-do task to indicate that it is complete.

3. Now that task will immediately move to the bottom.



7.2. Boundary Test Case

1. Go to the To-do List fragment.
2. Tap on all to-do tasks to indicate that they are complete.
3. Now all the to-do tasks will move one by one to the bottom as the order they are tapped.

