

To-Do Planner

Iteration #3

- GROUP 7

GROUP MEMBERS:

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Agenda

- ▶ Project Description
- ▶ Requirements
- ▶ Overall Design Approach
- ▶ Use Cases
- ▶ Requirements Use Case Trace Matrix
- ▶ Increment Matrix
- ▶ Domain Model
- ▶ Expanded Use Case Diagrams
- ▶ Sequential Diagrams
- ▶ Domain Class Diagrams
- ▶ Application Demonstration
- ▶ Summary
- ▶ Q & A

Project Description

- ▶ The app is used to schedule and organizes tasks
- ▶ This app aims to solve the problem of productivity.
- ▶ The app intends to do so by:
 - Offering a platform to view summary of pending tasks
 - Providing notification certain amount of time before it is due



Requirements

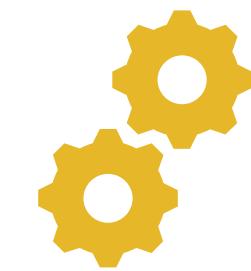
Req Id	Req Statement	Line
R1	The app shall have section which describe category of task	line 9, line 24-25
R2	The app shall allow user to create a task	line 10, line 22-23
R2.1	The app shall allow user to create a task in sections	line 10
R2.2	The app shall have name assigned to the task	line 11
R2.3	The app shall have small description of the task	line 11
R3	The app shall allow user to set due time and date	line 12, line 26-27
R4	The app shall notify the user	line 13
R4.1	The app shall notify user based on deadlines	line 13, line 19-21
R4.1.1	The app shall notify the user 2 hours from the deadline by default	derived
R4.2	The app shall notify user based on priorities	line 13, line 32-33
R4.2.1	The app shall notify the user before certain amount of time from deadline depending on the priority set by the user	derived
R5	The app shall allow user to change the status of the task	line 16
R5.1	The app shall provide check box to change the status of task	line 16
R6	The app shall allow user to set the priority to a task	line 17, line 28
R6.1	The app shall allow user to set priority as critical or medium or low	line 18, line 29
R6.2	The app shall allow user to filter tasks based on priorities in dashboard	line 37 - 38
R7	The app shall display the summary of tasks in list view to user	line 34, line 30-31
R8	The app shall contain dashboard that displays the tasks which are due in current day	line 34-36
R8.1	The app shall contain dashboard that displays the tasks which are due in current week	derived
R8.2	The app shall display the summary of tasks according to priorities	line 34,35
R9	The app shall allow user to delete a task	line 39

Overall Design Approach



Iteration # 1

Project Description
Requirements
Use Case Diagram
High Level Use Case
Requirements User Case Traceability Matrix
Iteration Matrix
Domain Model



Iteration # 2

Expanded Use Cases
Sequence Diagrams
Design Class Diagram
Partial Use case Implementation



Iteration # 3

Expanded Use Cases for remaining Use Cases
Sequence Diagram for Use Cases
Design Class Diagram for remaining Use Cases
Complete Implementation
App Demo

Use Cases

Use Case 1: Create Task

Use Case 2: Delete Task

Use Case 3: Modify Task

Use Case 4: Create Section

Use Case 5: Assign Task Description

Use Case 6: Assign due date

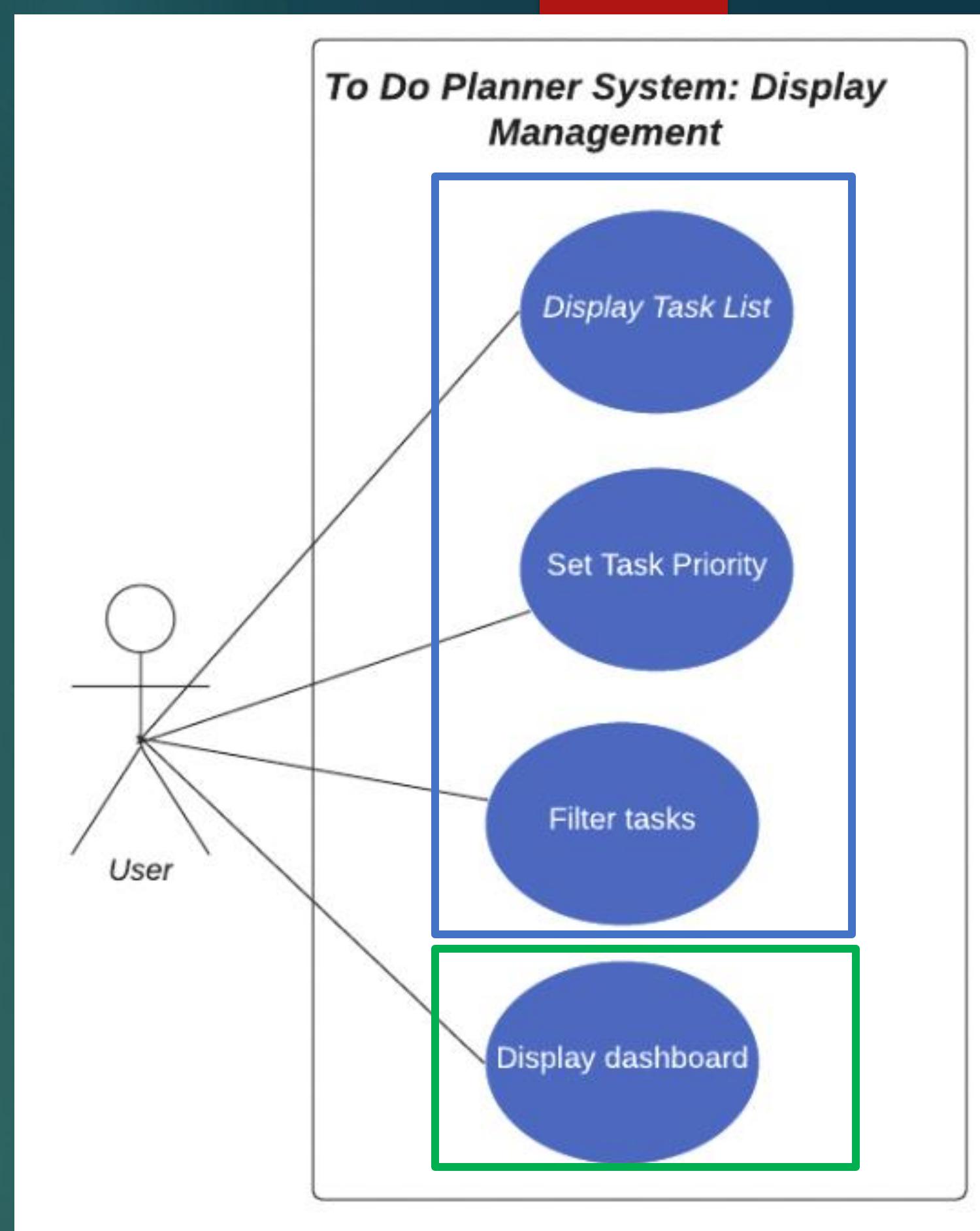
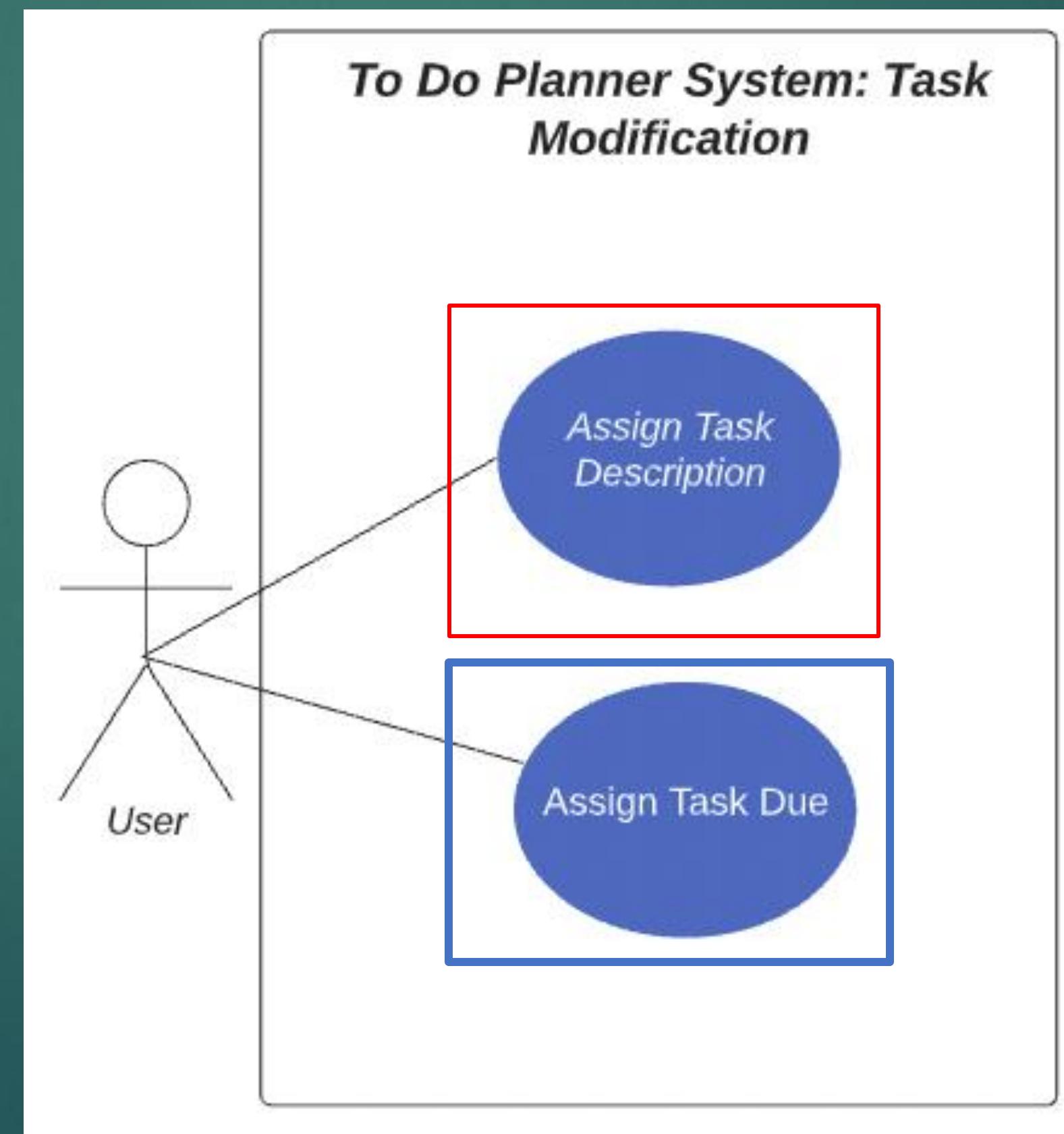
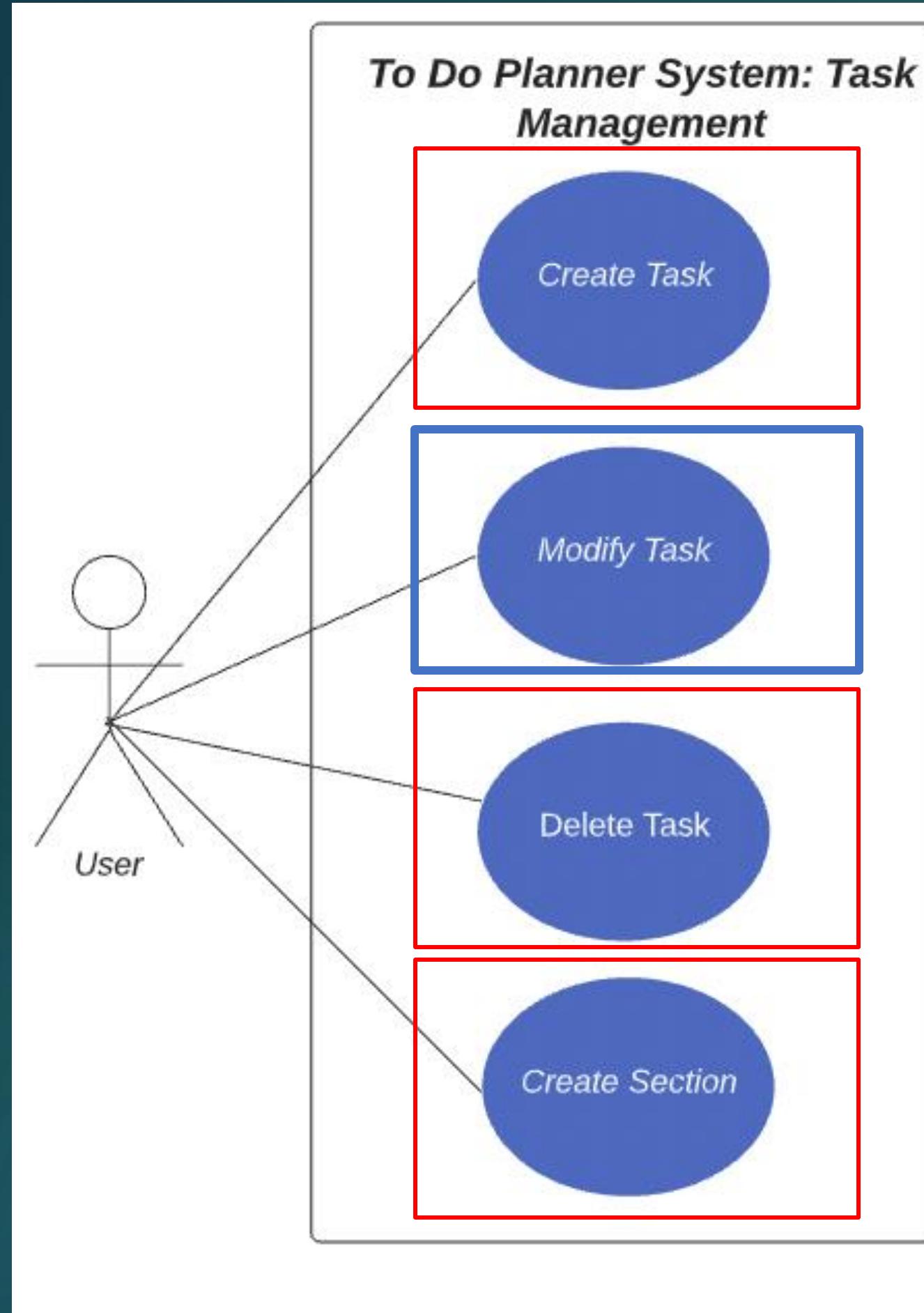
Use Case 7: Set Task Priority

Use Case 8: Display Task List

Use Case 9: Display Dashboard

Use Case 10: Filter Tasks

Use Case Diagram



Use Case1: Create task

- a. TUCBW the user clicking on “+” symbol
- b. TUCEW the user sees a new task successfully added to the list of tasks

Use Case2: Delete Task

- a. TUCBW the user clicks a delete button in task window
- b. TUCEW the user sees a task deleted from the list of tasks

Use Case3: Modify Task

- a. TUCBW the users click on the edit button of task window
- b. TUCEW the user changes the required parameter of the task

Use Case4: Create Section

- a. TUCBW the user clicking on button
- b. TUCEW the user sees a new section successfully added to the list

Use Case5: Assign Task Description

- a. TUCBW the user select text box beside Task Description label
- b. TUCEW the user successfully assigns a description to task

Use Case6: Assign Task Due

- a. TUCBW the user select date picker beside Due Date label
- b. TUCEW the user successfully assigns a deadline to a task

Use Case7: Set Task Priority

- a. TUCBW the user clicks priority from the drop-down menu
- b. TUCEW the priority is set to the particular task

Use Case8: Display Task List

- a. TUCBW the user clicks on button of the section list in application
- b. TUCEW is the application displaying a list view of tasks.

Use Case9: Display Dashboard

- a. TUCBW the user clicks on the dashboard icon
- b. TUCEW the application displays summary of tasks and tasks by due date are displayed in grid view.

Use Case10: Filter Tasks

- a. TUCBW the user clicks on the filter menu
- b. TUCEW application displays the list view of tasks based on a selected category of priorities.

High Level Use Case

Requirements Use Case Traceability Matrix

	Priority weight	UC-1	UC-2	UC-3	UC-4	UC-5	UC-6	UC-7	UC-8	UC-9	UC-10
R1	1				X						
R2	1	X									
R2.1	2	X									
R2.2	2										
R2.3	2				X						
R3	2					X					
R4	1										
R4.1	2										
R4.1.1	2										
R4.2	2										
R4.2.1	2										
R5	4			X							
R5.1	4			X							
R6	3						X				
R6.1	3						X				
R7	1							X			
R8	2							X			
R8.1	2								X		
R8.2	2									X	
R9	4		X								
	SCORE	6	4	8	2	2	2	6	3	2	2

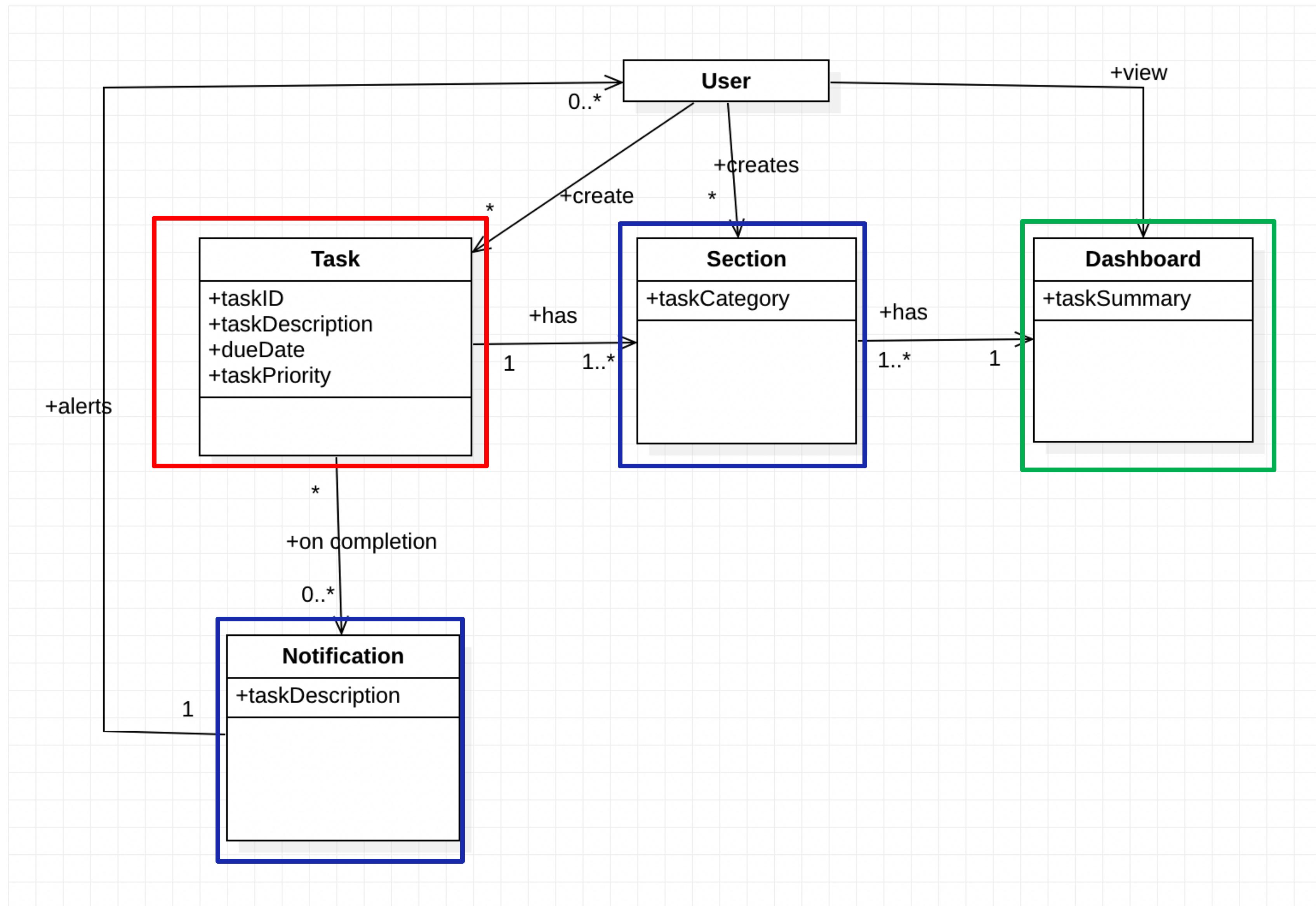
Priority weights are 1 to 5. 1 being highest and 5 being the lowest

Use Case	Priority	Efforts(in terms of person)	Depends on	Assigned to	Iteration 1 (3/11/2022)	Iteration 2 (04/08/2022)	Iteration 3 (05/02/2022)
UC-1	6	1	None	PS		1	
UC-2	4	1	UC-1	PS		1	
UC-3	8	3	UC-1	AS		2	1
UC-4	2	2	None	AS		2	
UC-5	2	1	UC-1	PM		1	
UC-6	2	4	UC-1	PP		2	2
UC-7	6	4	UC-1	PM		1	3
UC-8	3	2	UC-1-8	YK		1	1
UC-9	2	4	UC-1,6,8	YK			4
UC-10	2	4	UC-1,8	PS		1	3

PS = Parshva Shah, YK = Yogesh Kalapala, PP = Parth Patel, AS = Abdulbari Syed, PM = Paridnya Mane

1 person week=5hours

Incremental Matrix



Domain Model

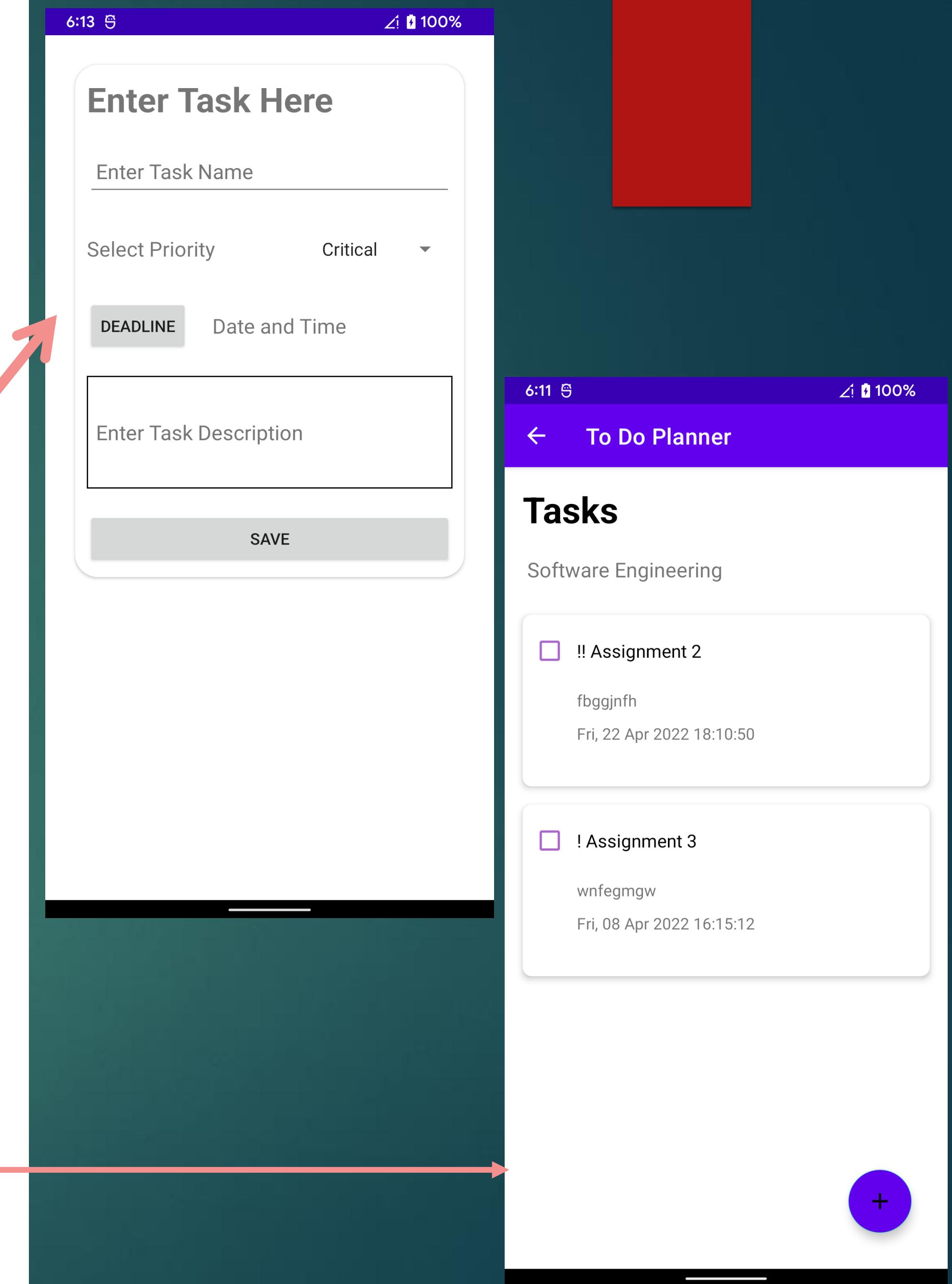
Expanded Use Case Diagrams

EUC 1: Create Task

Pre-Condition: This use case assumes that the user is in sections part of application.

Actor: User	System: To Do Planner
	0. App displays section screen.
1. TUCBW the user clicking on “+” symbol.	2. App displays Add task screen.
3. The user enters details and clicks save button.	4*. App creates the task.
5. TUCEW the user sees a new task successfully added to the list of tasks.	

Postcondition: The created task is added to the task list.



EUC 2: Delete Task

Pre-Condition: This use case assumes that the user has created a task.

Actor: User

1. **TUCBW** the user swipes left to delete button in task window.

3. The user clicks confirm button.

5. **TUCEW** the user sees task deleted from the list of tasks.

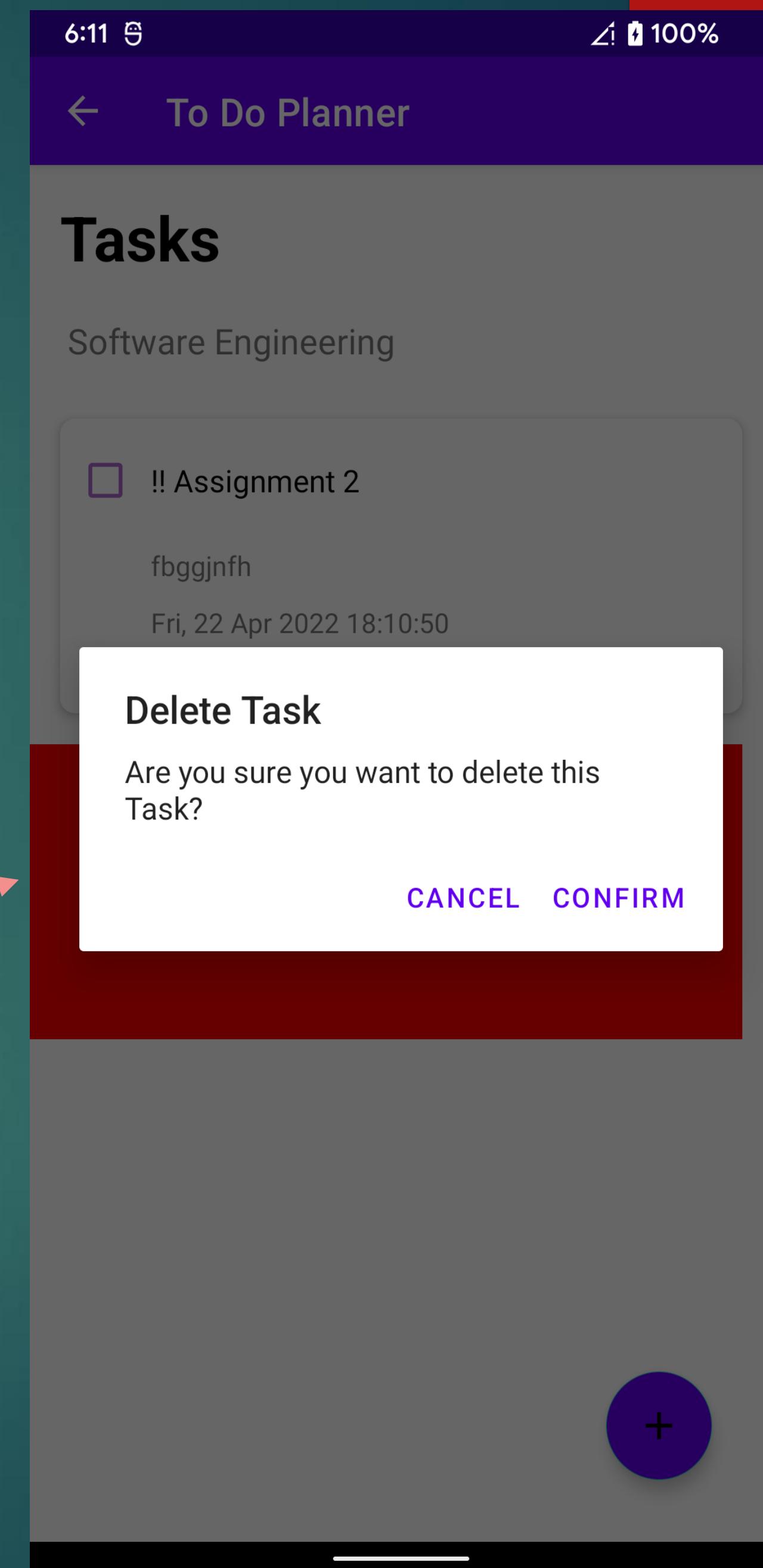
System: To Do Planner

0. App displays list of tasks on screen.

2. App displays Delete task window.

4*. App deletes the task.

Postcondition: The task is deleted from the task list.

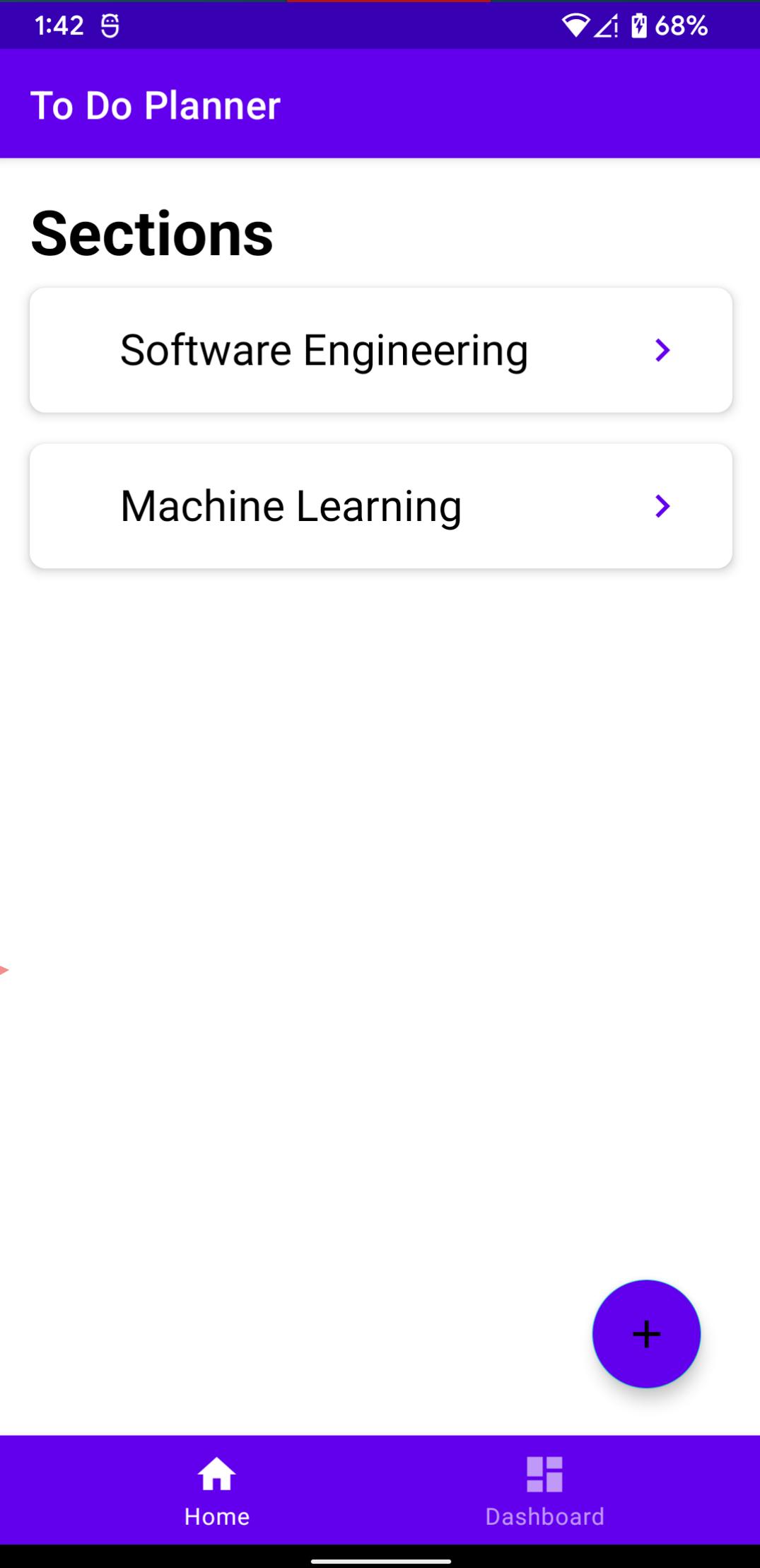
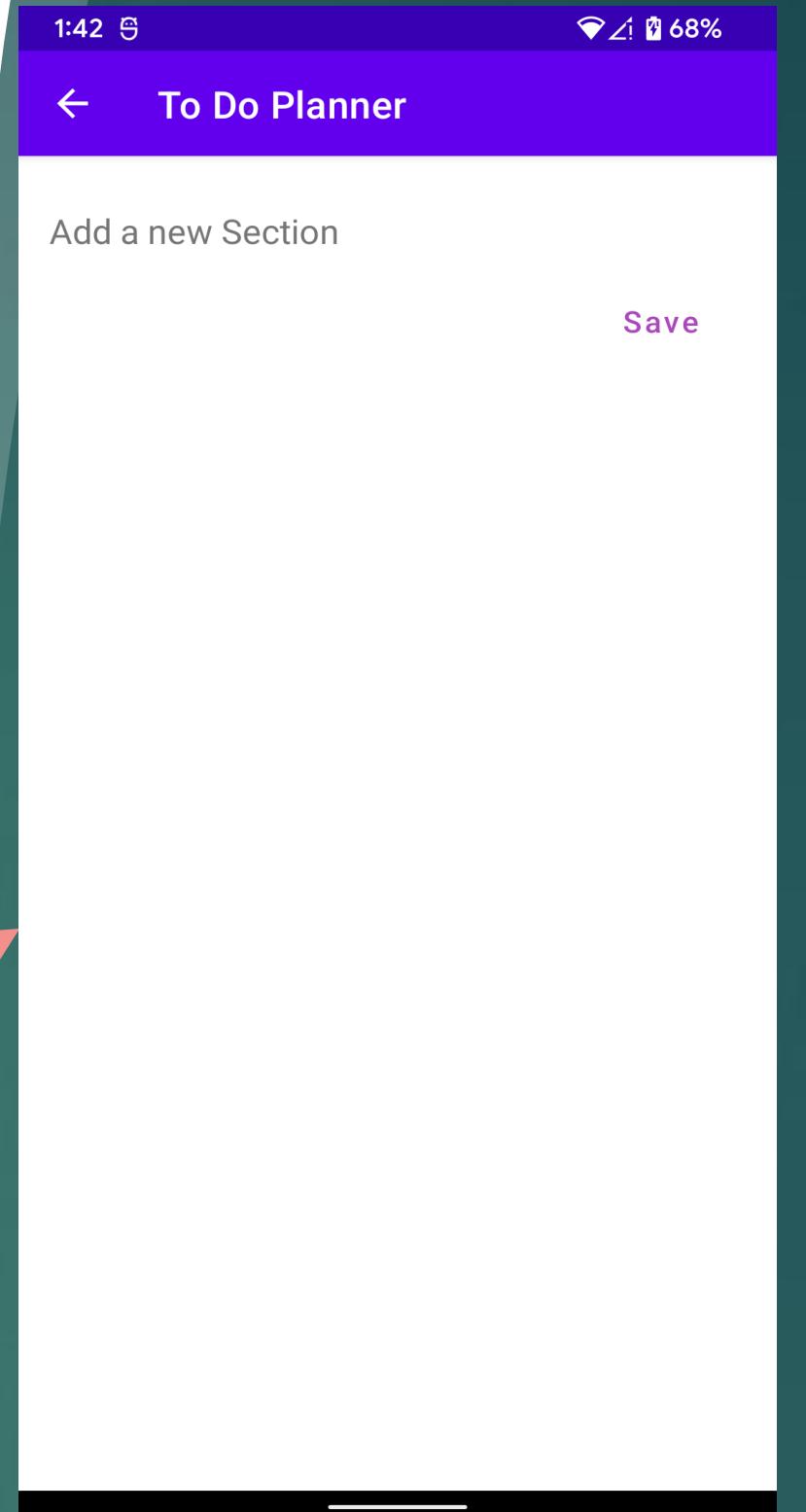


EUC 4: Create Section

Pre Condition: This use case assumes that the user is in sections part of application

Actor: User	System: To Do Planner
	0. App displays launch screen.
1. TUCBW the user clicking on button.	2. App displays Add Section screen .
3. The user enters section name and clicks create button.	4*. App Creates Section.
5. TUCEW the user sees a new section successfully added to the list.	

Postcondition: The App creates a new section to list.

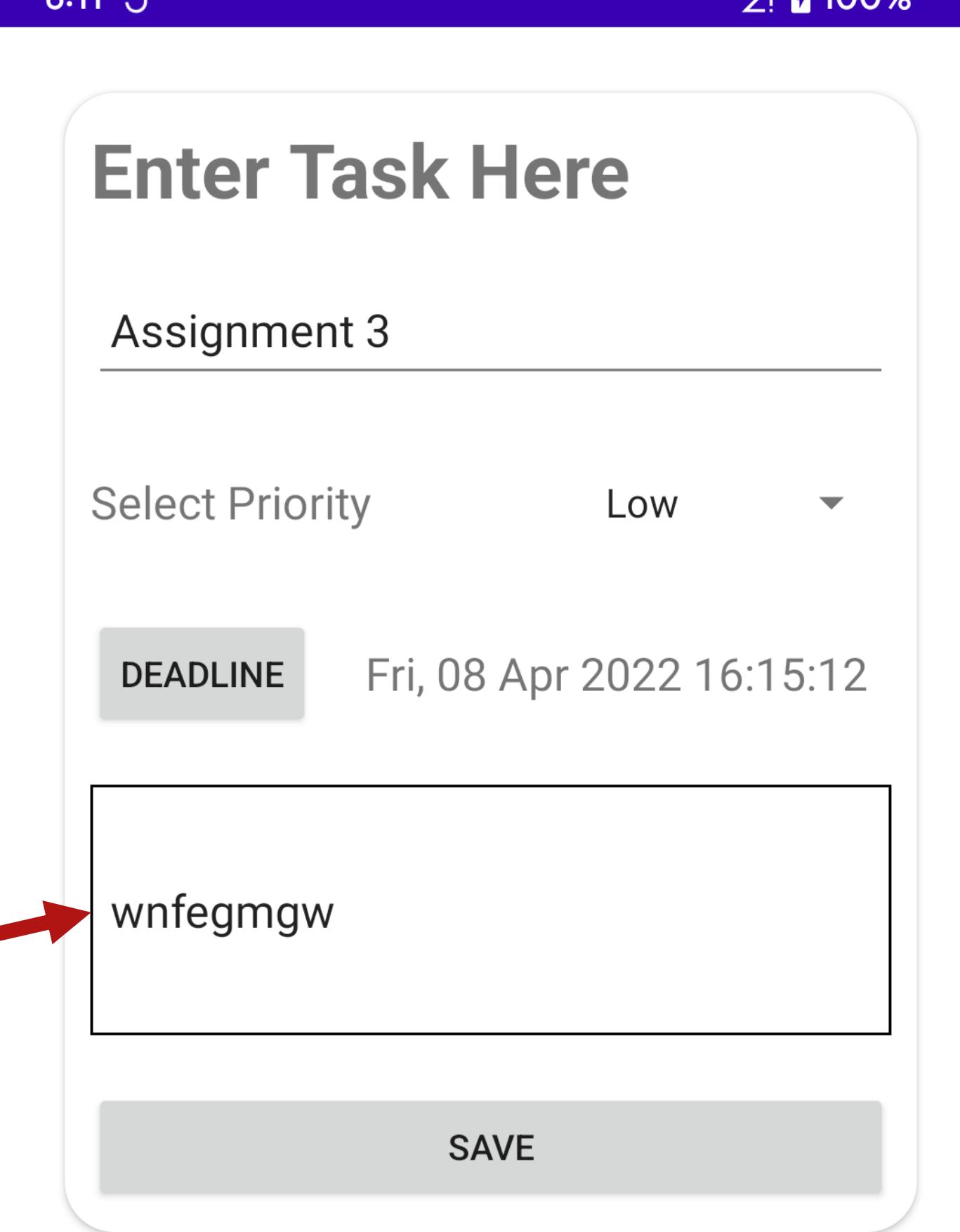


EUC 5: Assign Task Description(trivial)

Pre Condition: This use case assumes that the user is in create task window.

Actor: User	System: To Do Planner
	0. App displays Add task screen.
1. TUCBW the user select text box beside Task Description label.	2. App displays task description parameters window.
3. The user enters task description and clicks create button.	4. App adds text in the task description.
5. TUCEW the user successfully assigns a description to task.	

Postcondition: The description is added to task.

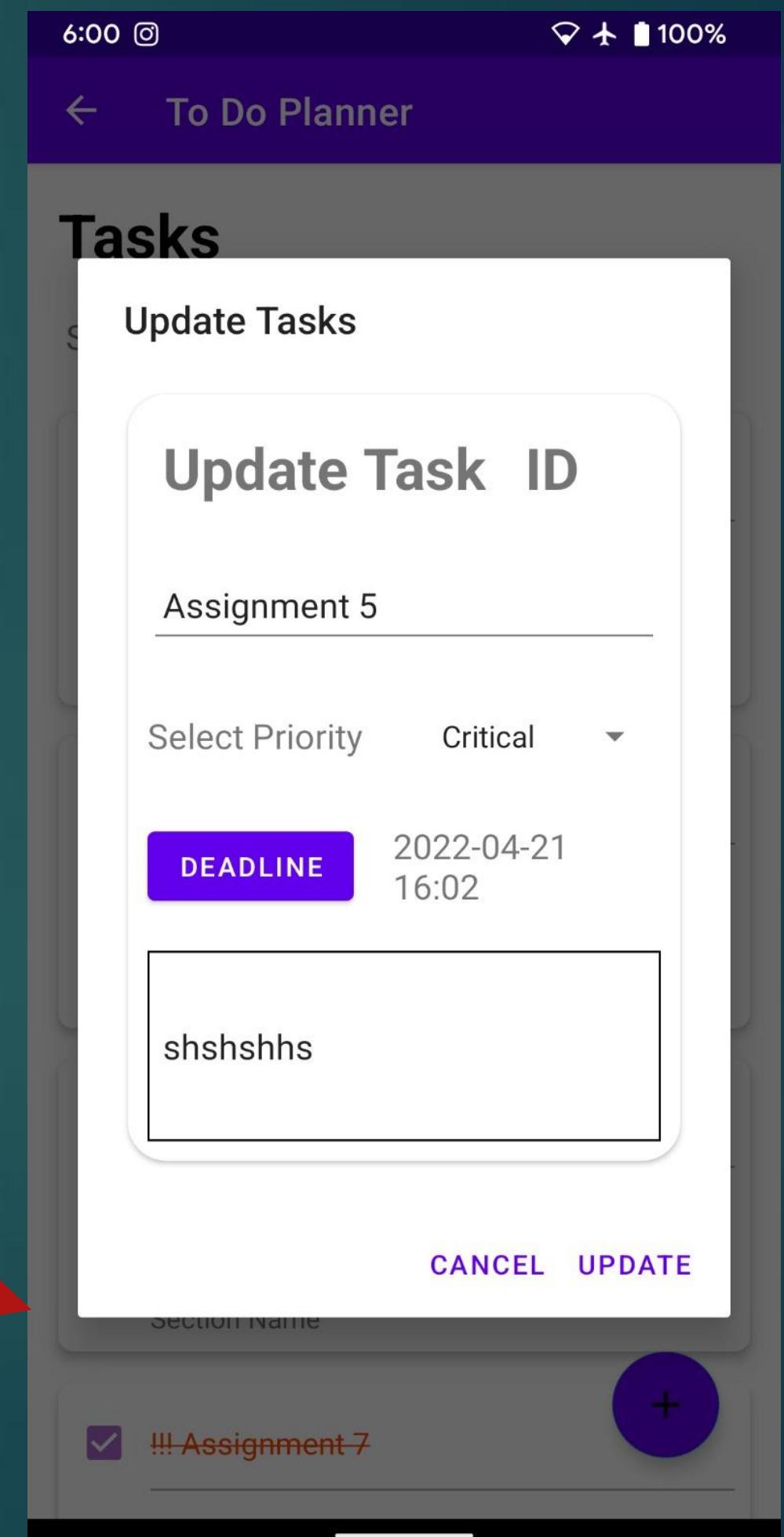
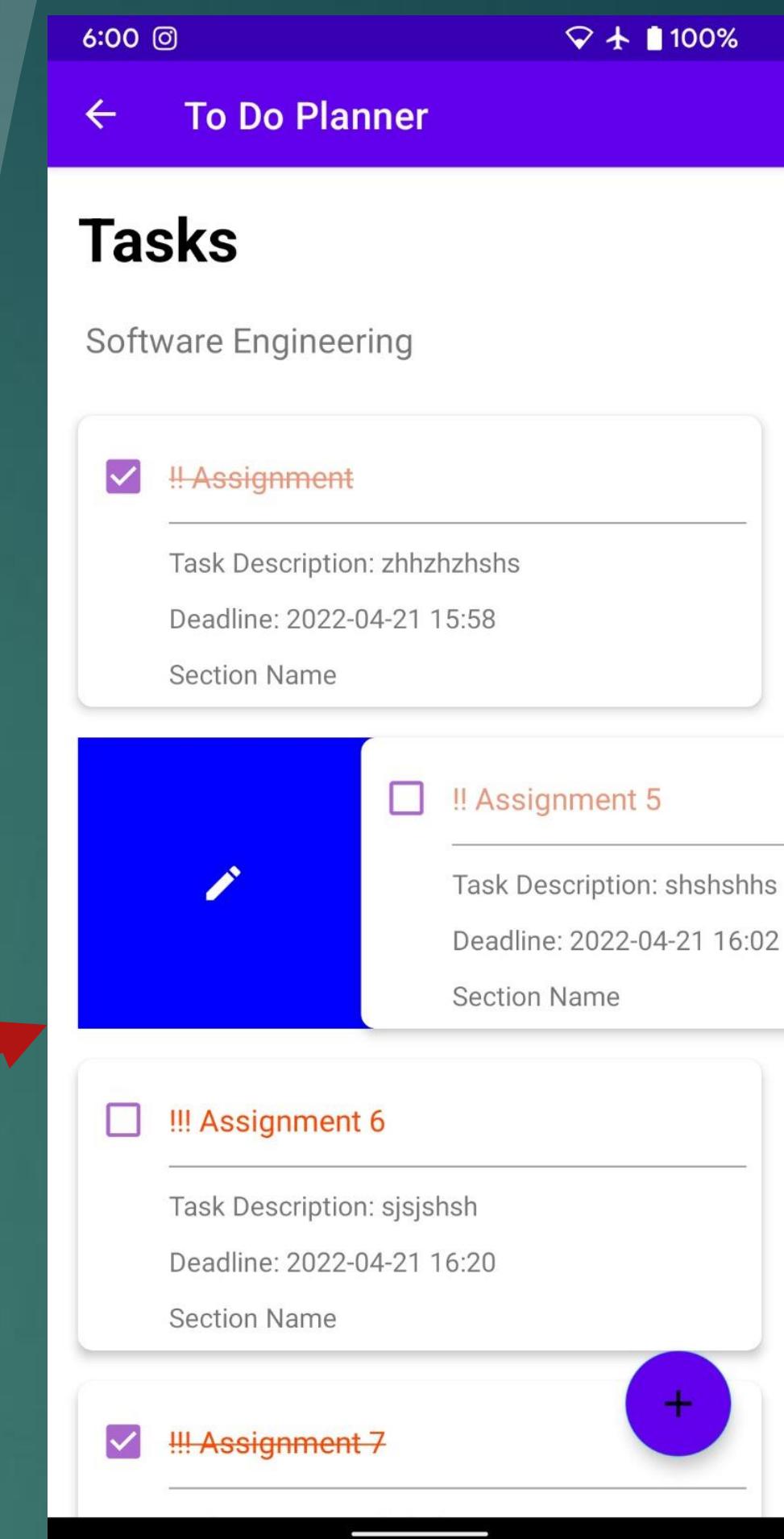


EUC 3: Modify Task

Pre Condition: This use case assumes that the user is in create task window.

Actor: User	System: To Do Planner
	0. App displays Add task screen.
1. TUCBW the users click on the edit button of task window.	2. App displays edit option.
3. The user updates desired details and clicks create button.	4*. App parameters of task.
5. TUCEW the user changes the required parameter of the task.	

Postcondition: The task is updated with new desired details.

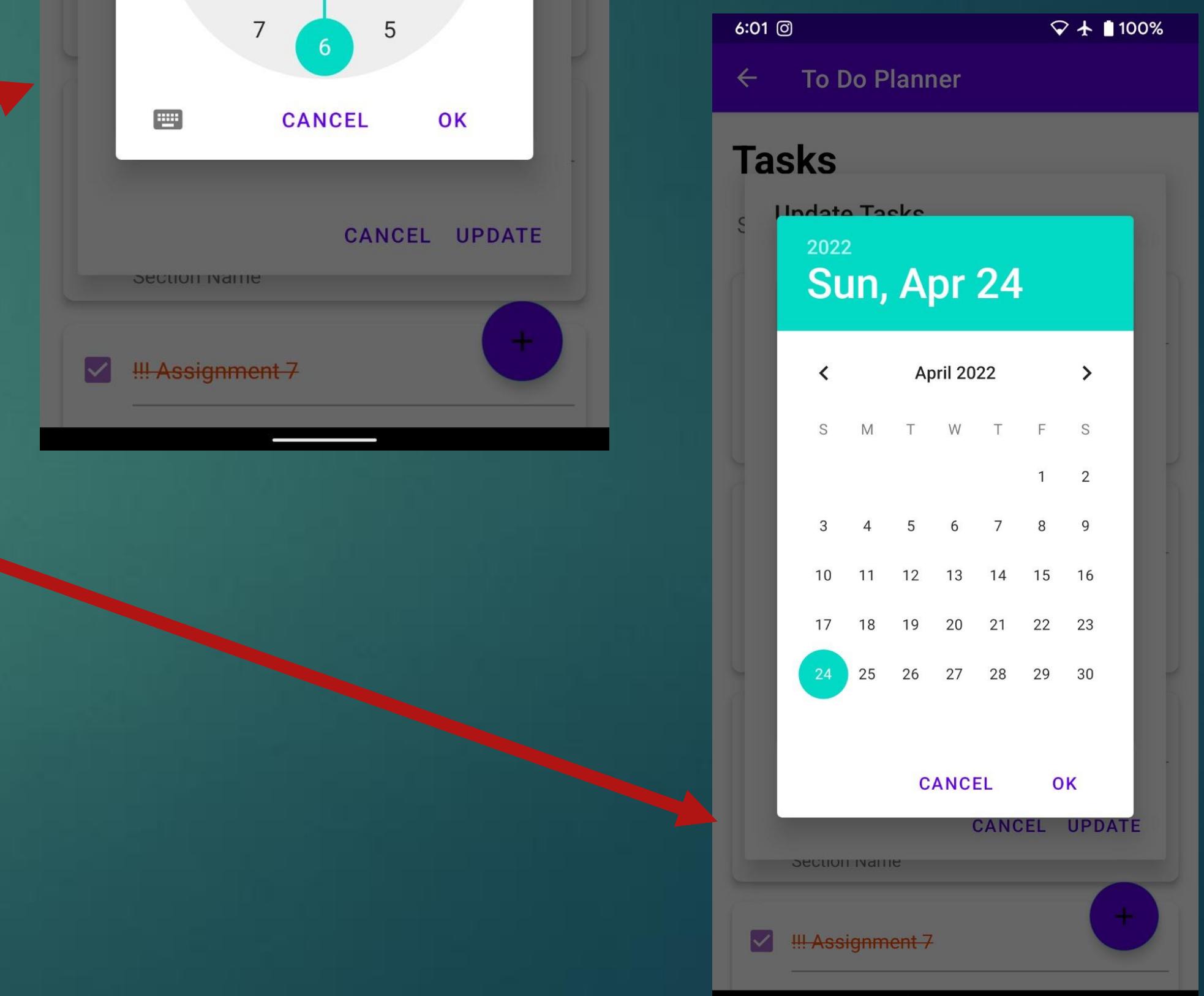
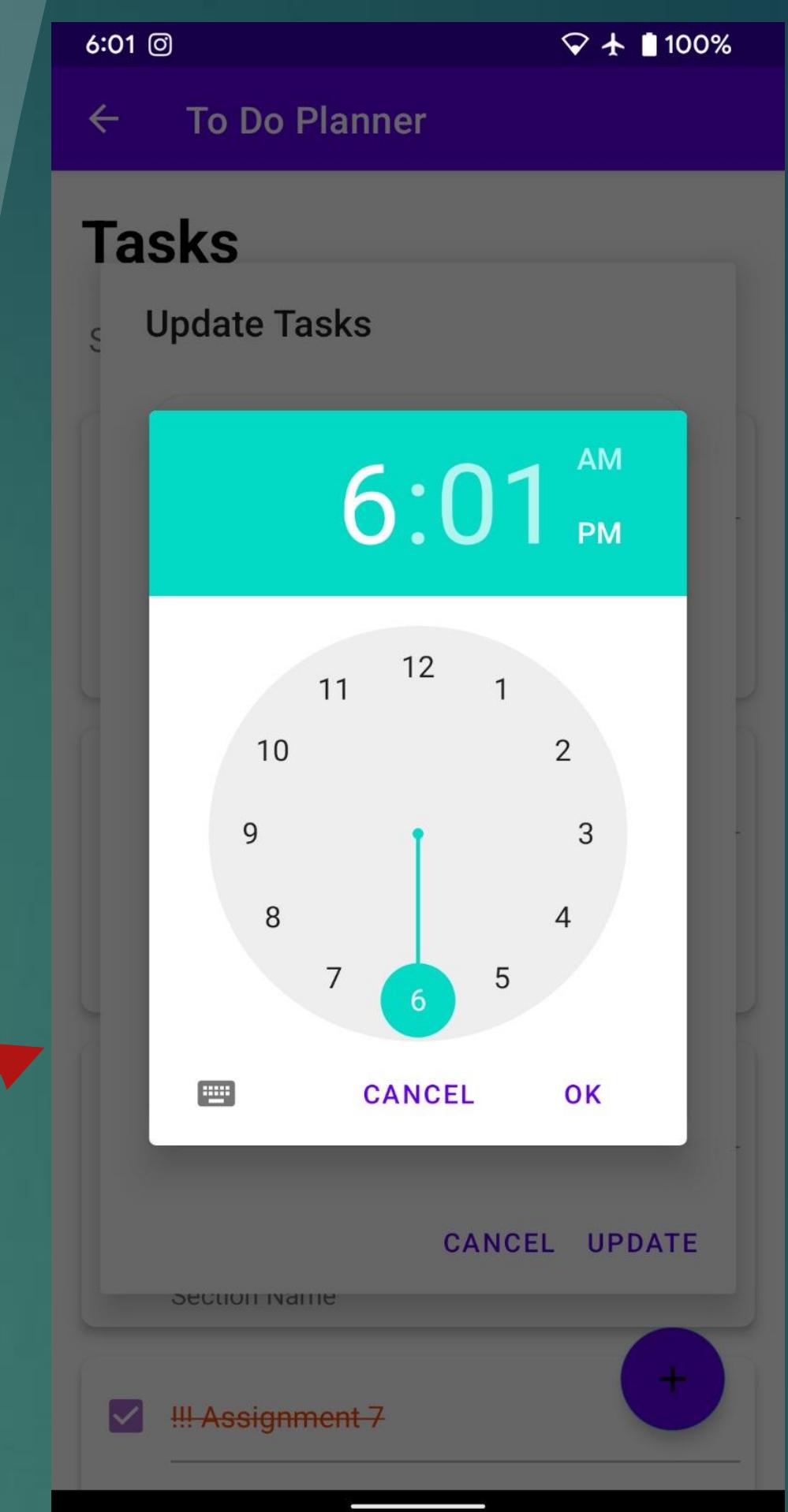


EUC 6: Assign Task Due(trivial)

Pre Condition: This use case assumes that the user is in create task window.

Actor: User	System: To Do Planner
	0. App displays Add task screen.
1. TUCBW the user select date picker beside Due Date label.	2. App displays task parameters window.
3. The user sets a date to be reminded and clicks create button.	4. App assigns user selected date for the task.
5. TUCEW the user successfully assigns a deadline to task.	

Postcondition: The due date is assigned to task.



EUC 7: Set Task Priority(trivial)

Pre Condition: This use case assumes that the user is in create task window.

Actor: User

1. **TUCBW** the user clicks priority from the drop-down menu.

3. The user selects priority as either critical, medium, low.

5. **TUCEW** the is set to the particular task.

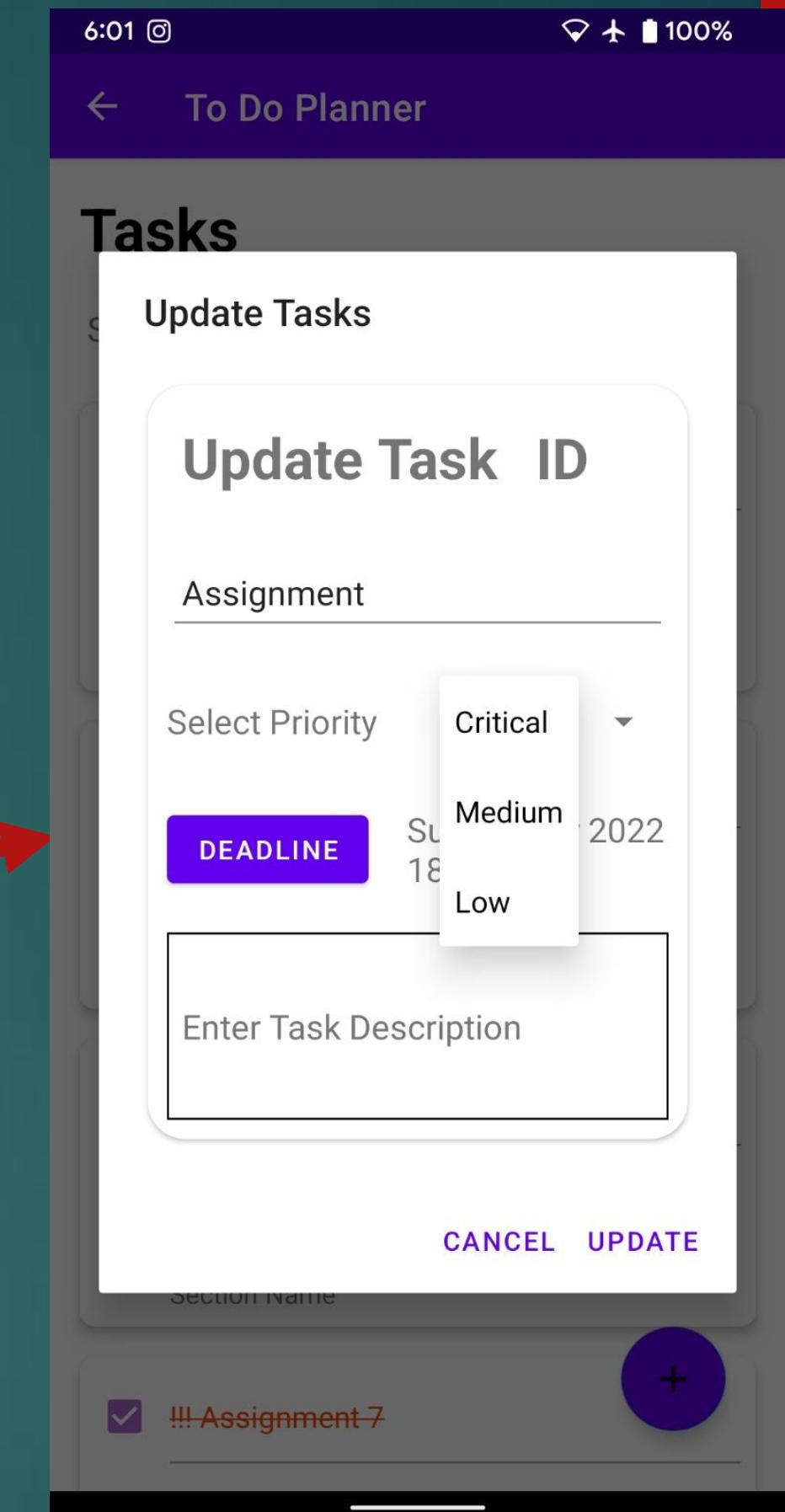
Postcondition: The priority of task is assigned successfully.

System: To Do Planner

0. App displays Add task screen.

2. App displays task parameters window.

4. App allocate priority to the task.



EUC 8: Display Task List

Pre Condition: This use case assumes that the user has created one or more tasks.

Actor: User

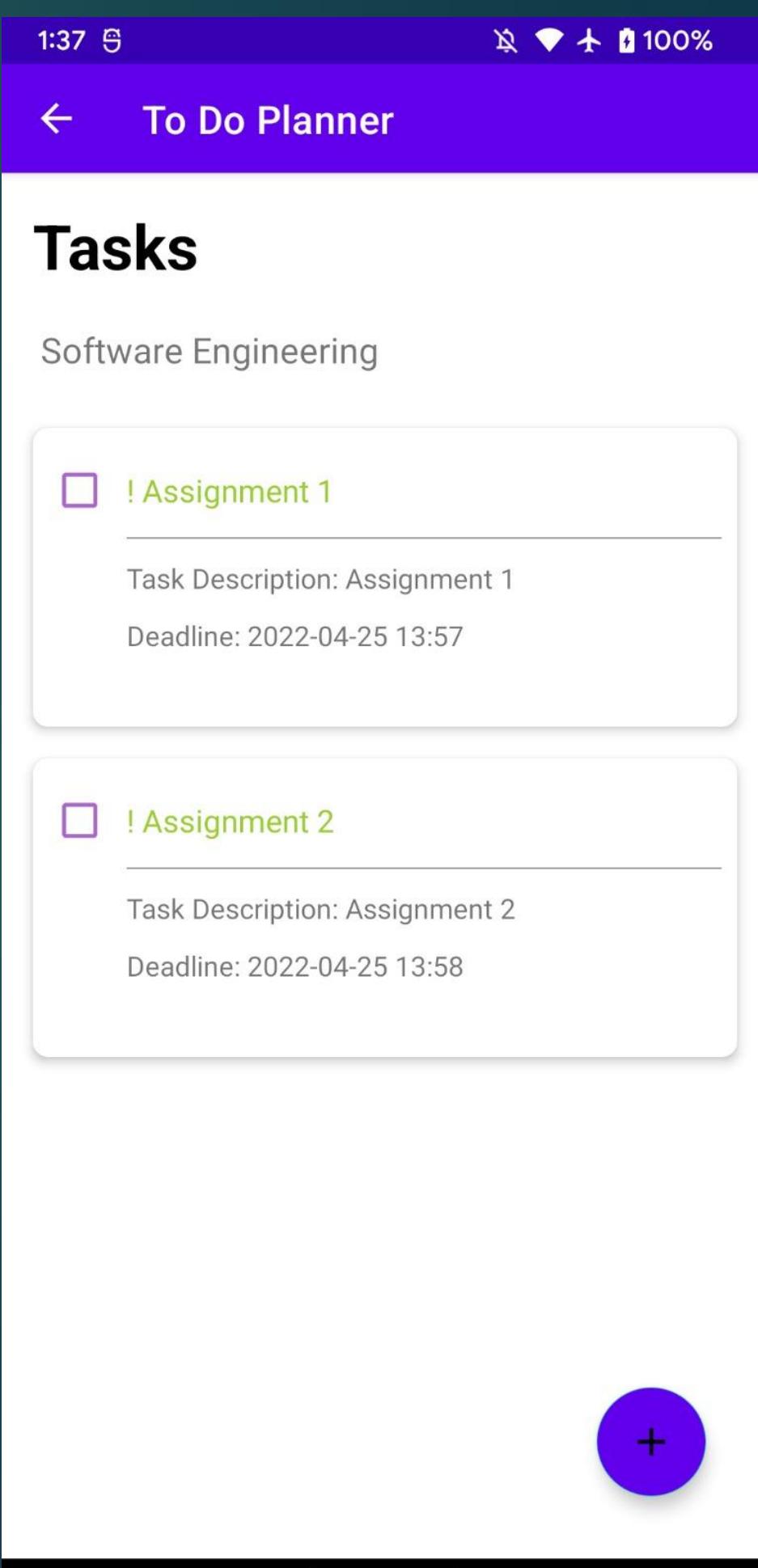
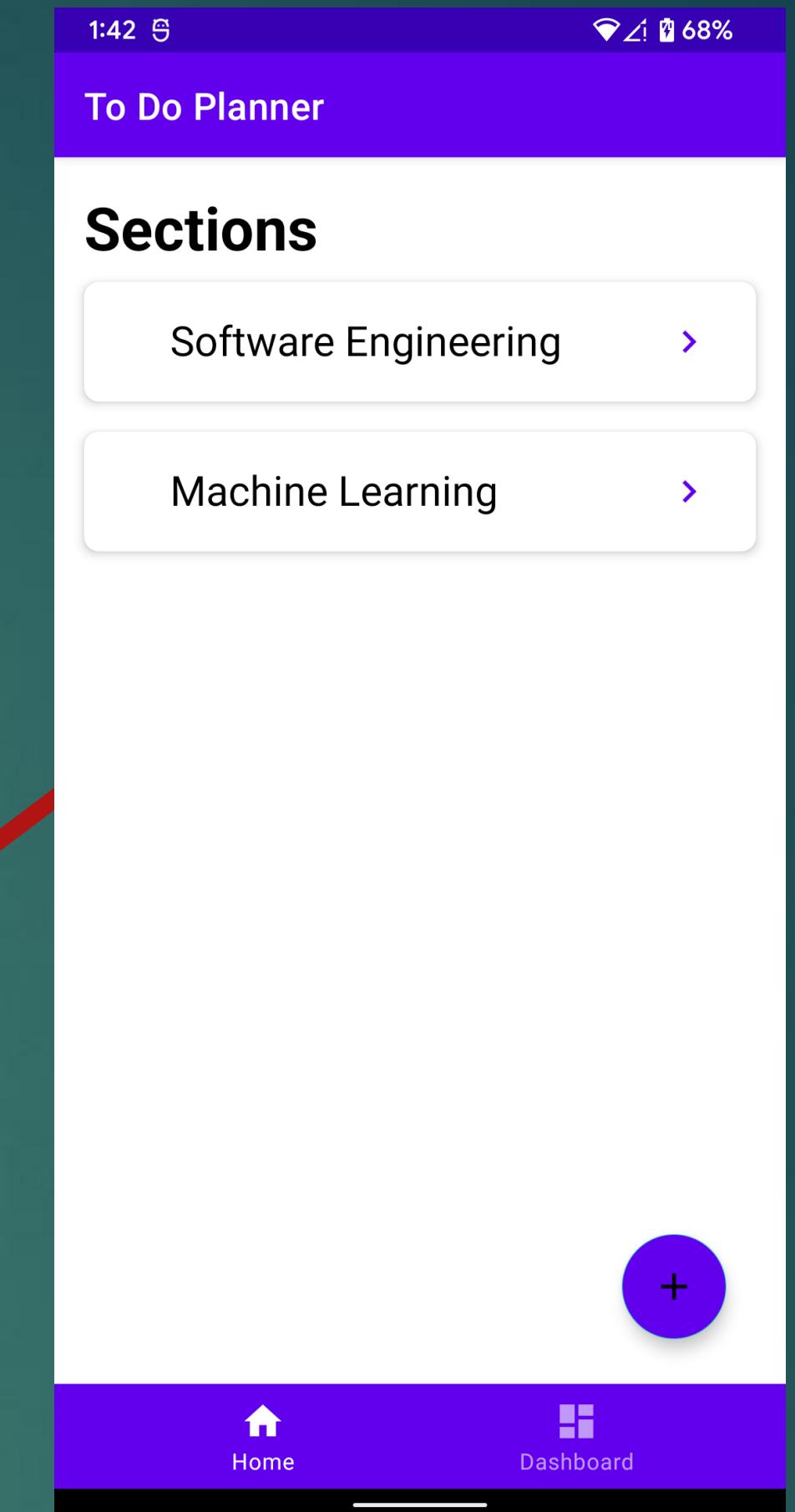
1. **TUCBW** the user clicks on button of the section list in application.

5. **TUCEW** the application displaying a list view of tasks.

Postcondition: All available tasks are displayed in list view.

System: To Do Planner

0. App displays Add launch screen.
2. The app calls the required list from database and displays tasks in list view.

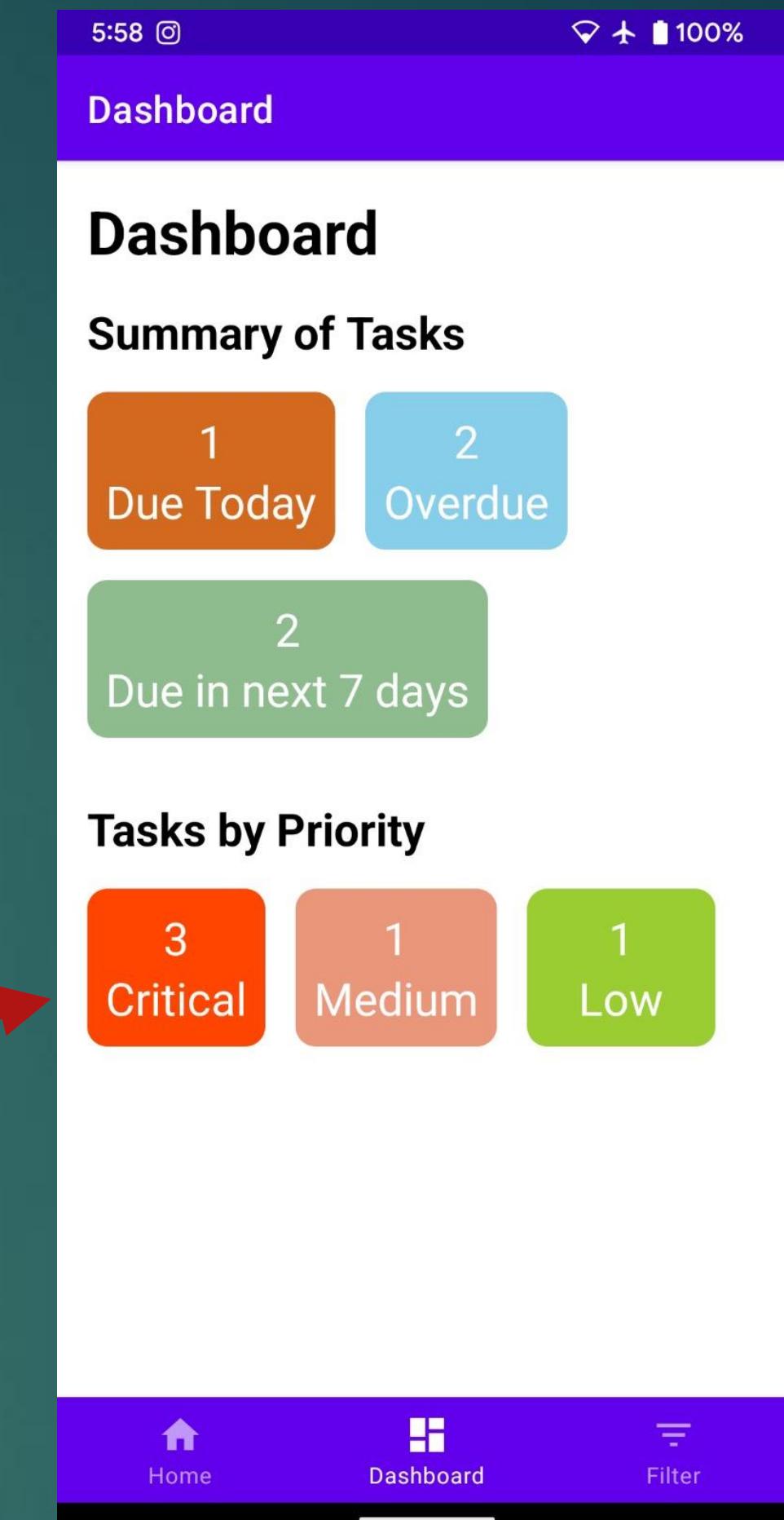


EUC 9: Display Dashboard

Pre Condition: This use case assumes that the user has created one or more tasks.

Actor: User	System: To Do Planner
	0. App displays launch screen. 2.* App displays summary of tasks fetching the data from database.
1. TUCBW the user clicks on the dashboard icon. 3. TUCEW the application displays summary of tasks and tasks by due date are displayed in grid view.	

Postcondition: The app displays summary of tasks and tasks by due date are displayed in grid view.



EUC 10: Filter Tasks

Pre Condition: This use case assumes that the user has created one or more tasks.

Actor: User

1. **TUCBW** the user clicks on the filter menu.

3. The user selects desired sorting condition.

5. **TUCEW** application displays the list view of tasks based on a selected category of priorities.

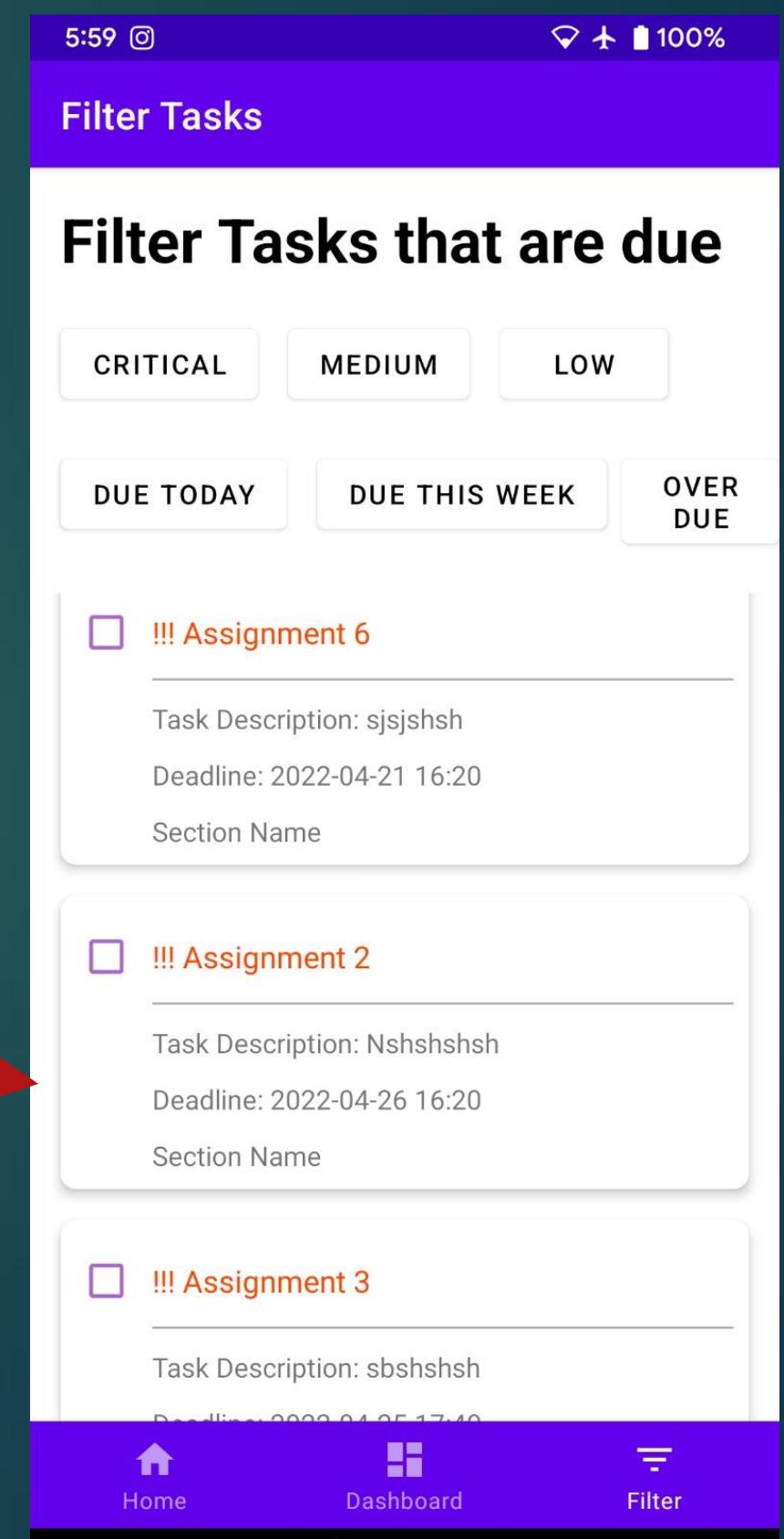
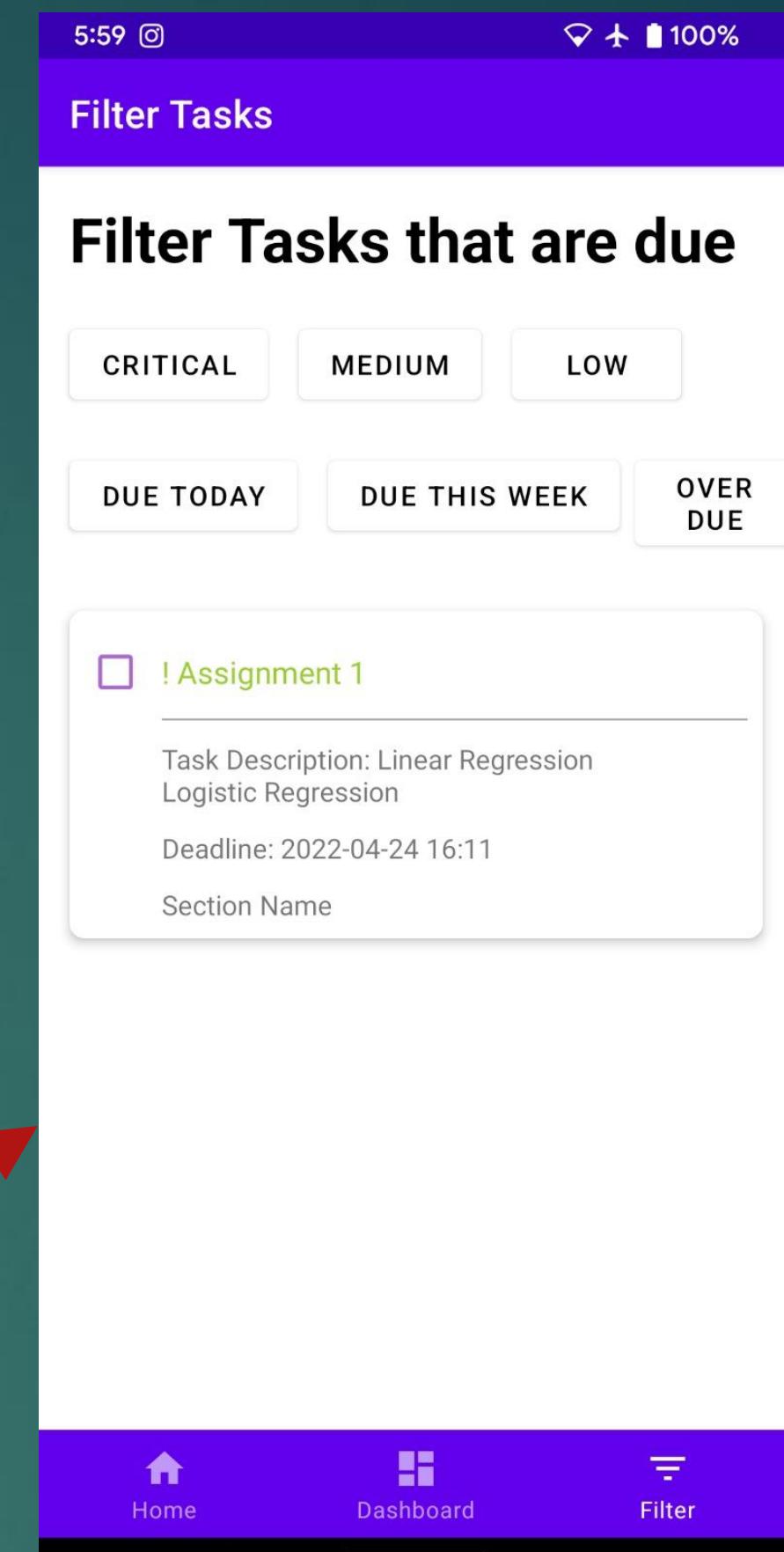
Postcondition: The created task is added to the task list.

System: To Do Planner

0. App displays launch screen.

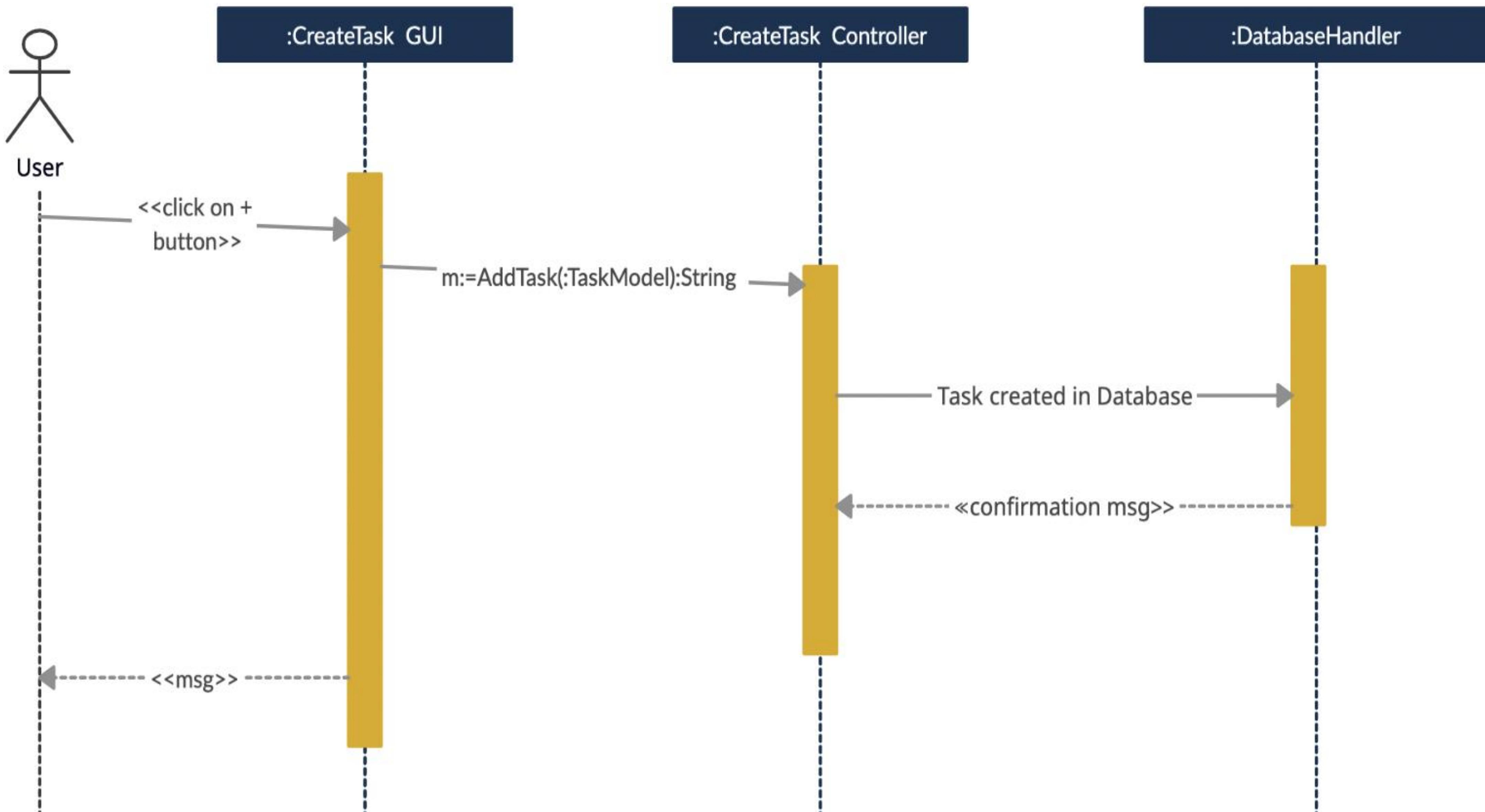
2. App displays filter condition window.

4.* App displays list of tasks according to the filtering condition.

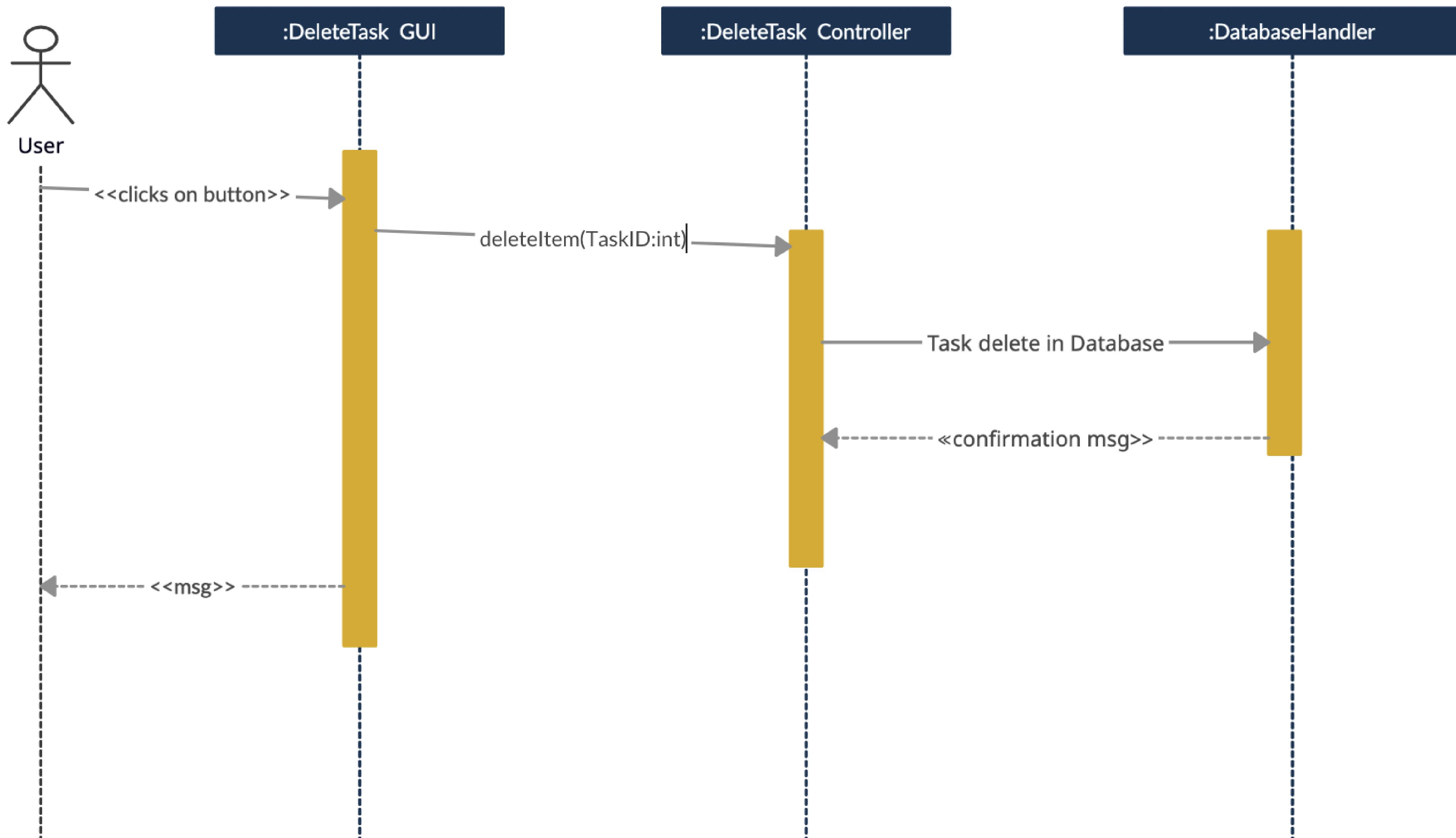


Sequence Diagrams

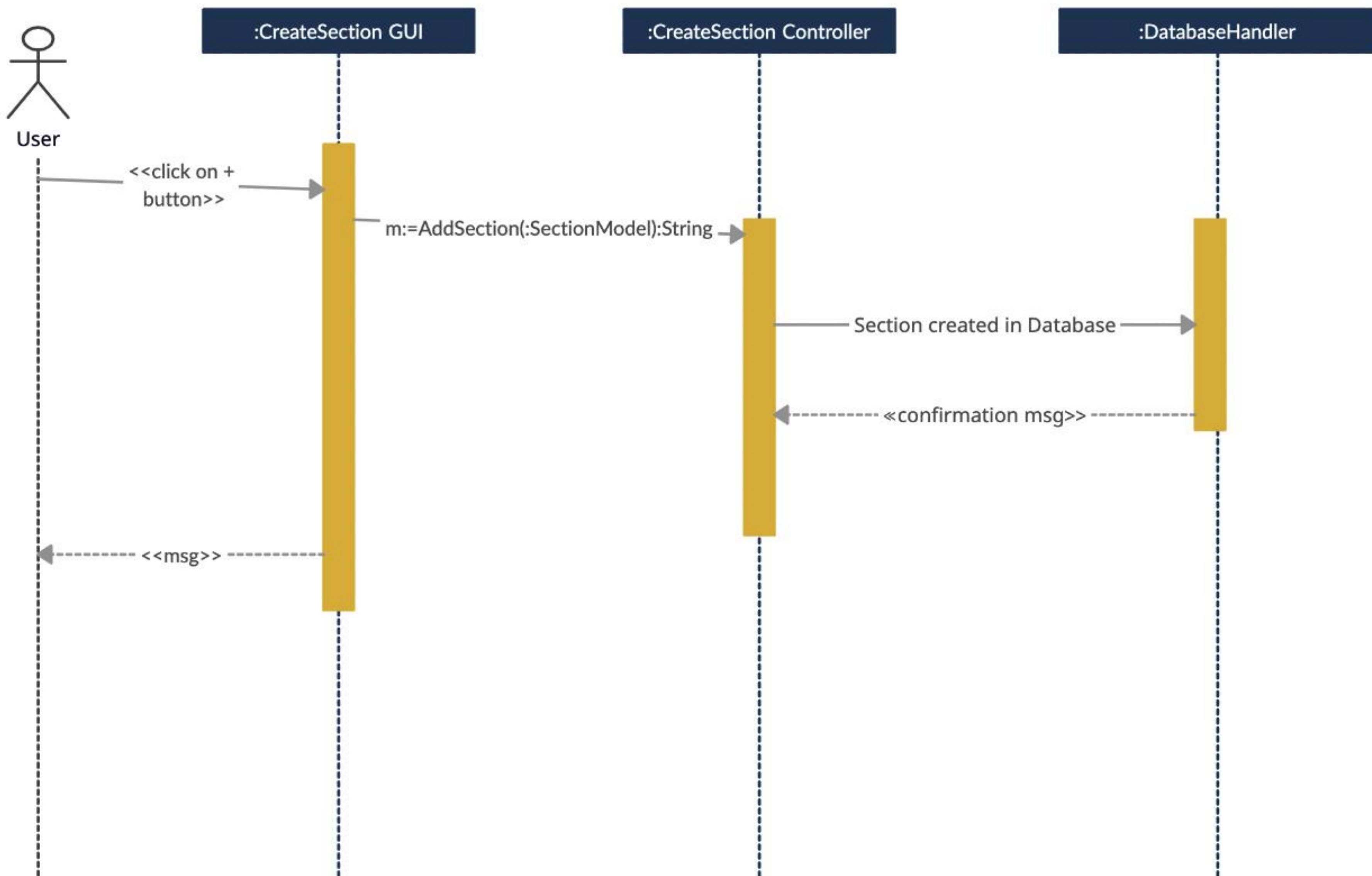
Use Case 1: Create Task



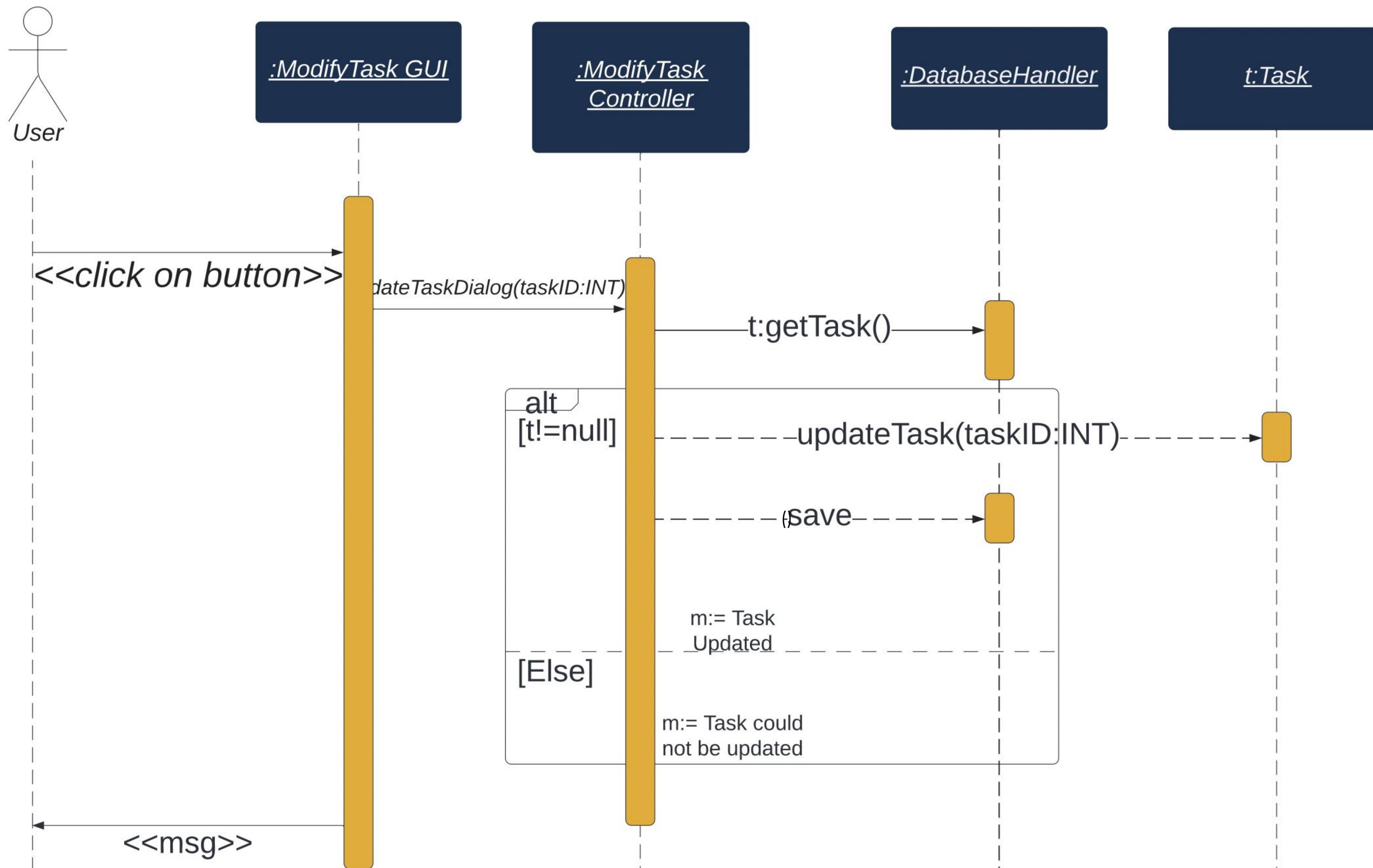
Use Case 2: Delete Task



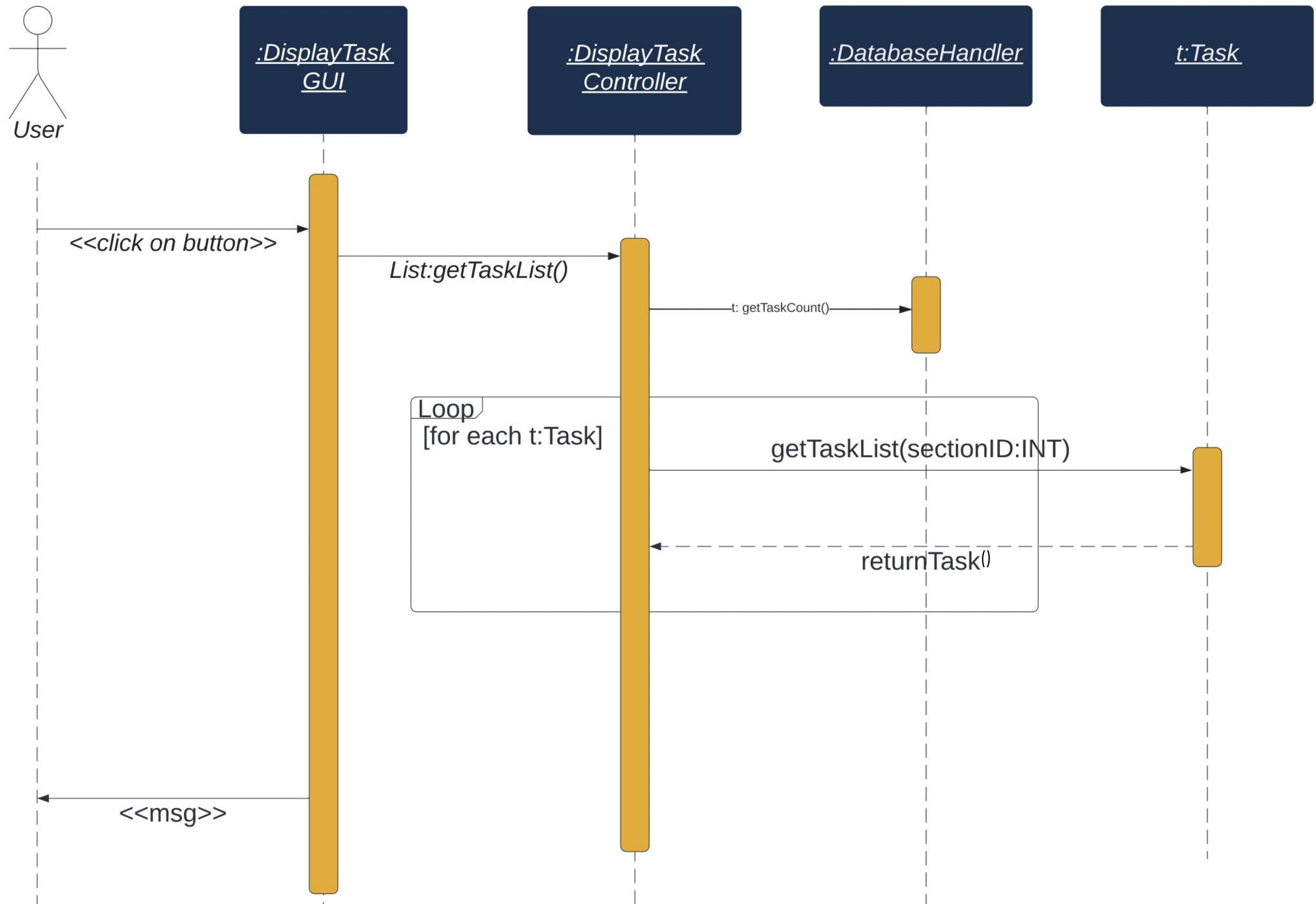
Use Case 4: Create Section

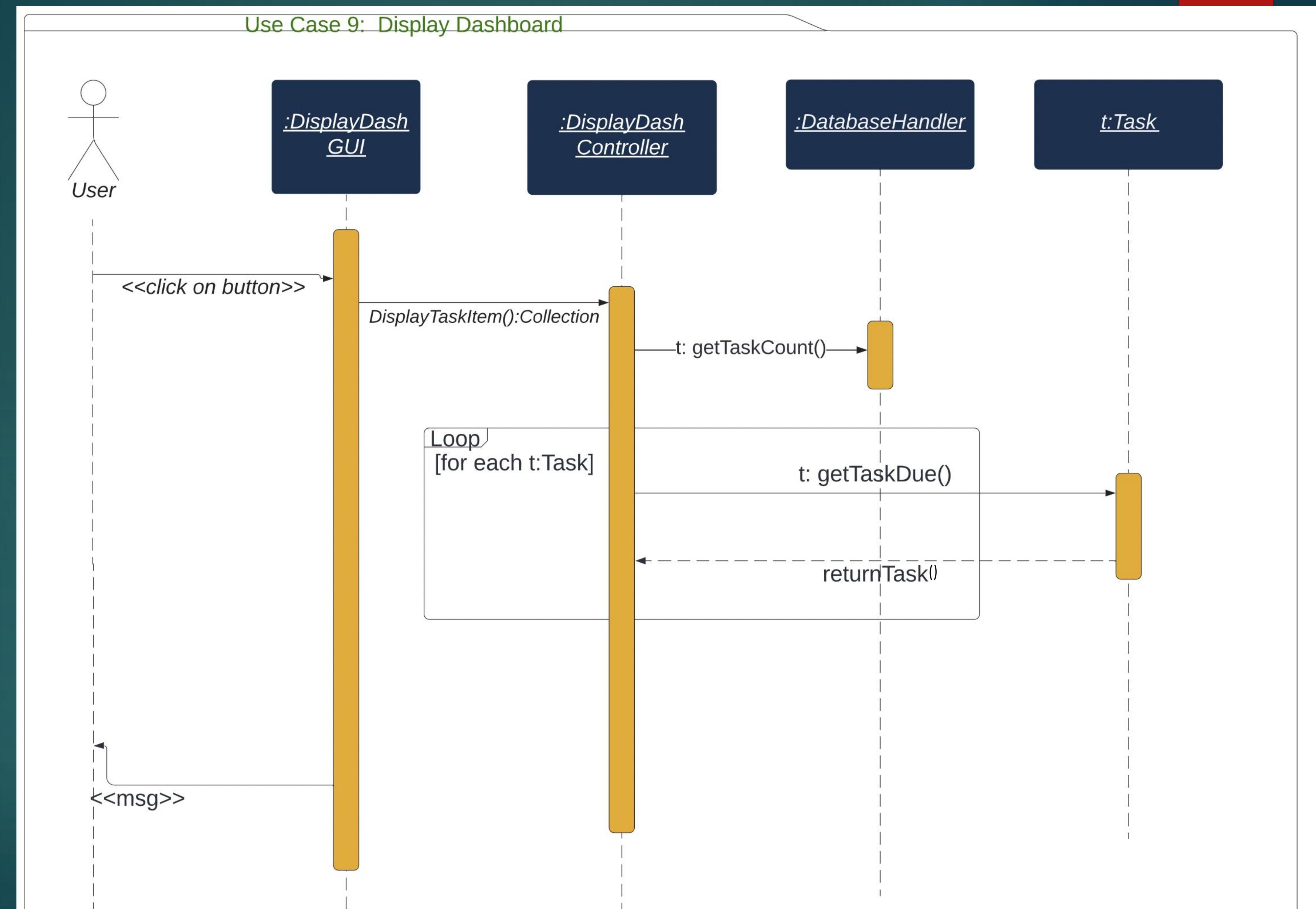


Use Case 3: Modify Task

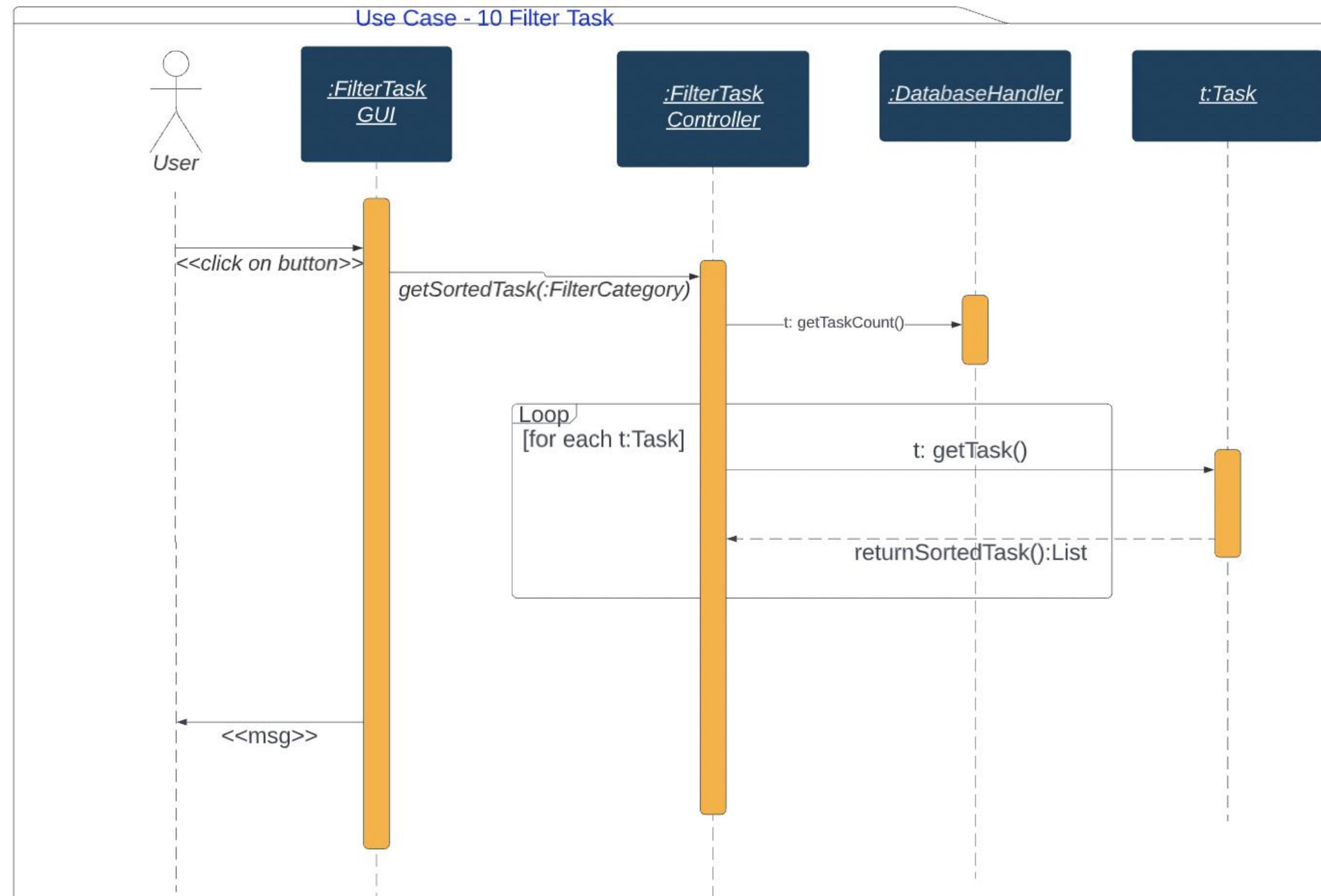


Use Case 8: Display Task List

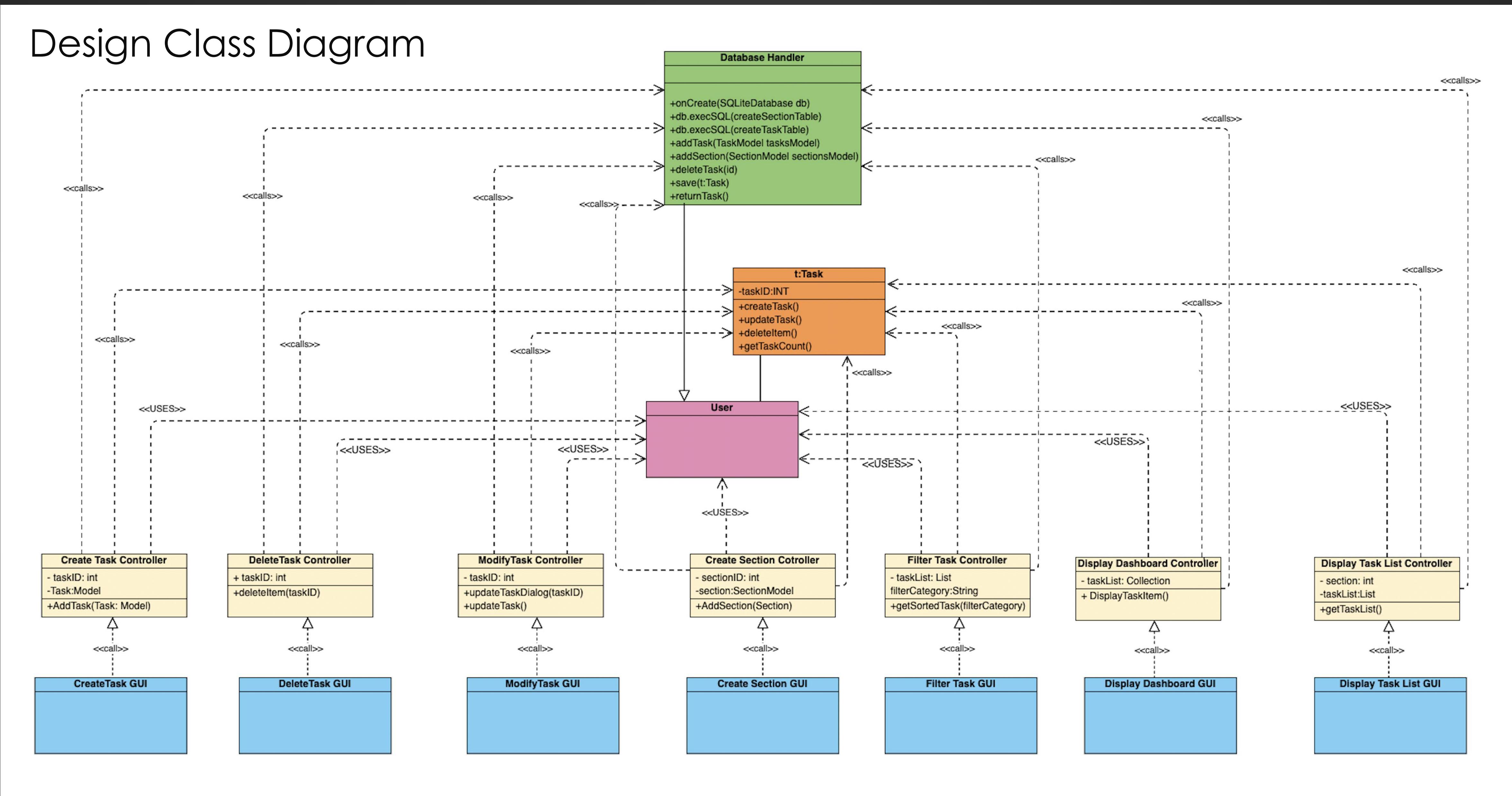




Use Case - 10 Filter Task



Design Class Diagram



App Demo:



Summary

Topics that we have discussed so far:

- ▶ To sum up, we showed our progress of the Agile process, from iterations-1 through 3.
- ▶ The requirements, High level use cases, RUCTM, Iteration Matrix and Domain Model that correspond to the use cases we highlighted.
- ▶ EUC, SD and DCD of use cases that were not implemented in IT-2 are completed in IT-3.
- ▶ We demonstrated working of our app on a real-time device.
- ▶ Moving forward, we would be doing narrative YouTube video.

Q & A Time

- ▶ Shoot some questions but do not kill us!



THANK YOU!