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# **XCRAM**

## **Use Case Diagram**

Submitted to:

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### **Unique Reference:**

The documents are stored in the <https://github.com/sharleengo/XCRAM>

<https://github.com/sharleengo/XCRAM/blob/master/02-Requirements-Engineering/XCRAM%20-%20Use%20Case%20Model.pdf>

### **Document Purpose:**

The purpose of this document is to give a simple, visual representation of the functionalities of our scheduling software(XCRAM) through a use-case model. This includes the use-case diagram, actor and use-case description.

### **Target Audience:**

Evaluators and Users.

### **Revision Control**

#### *History Revision:*

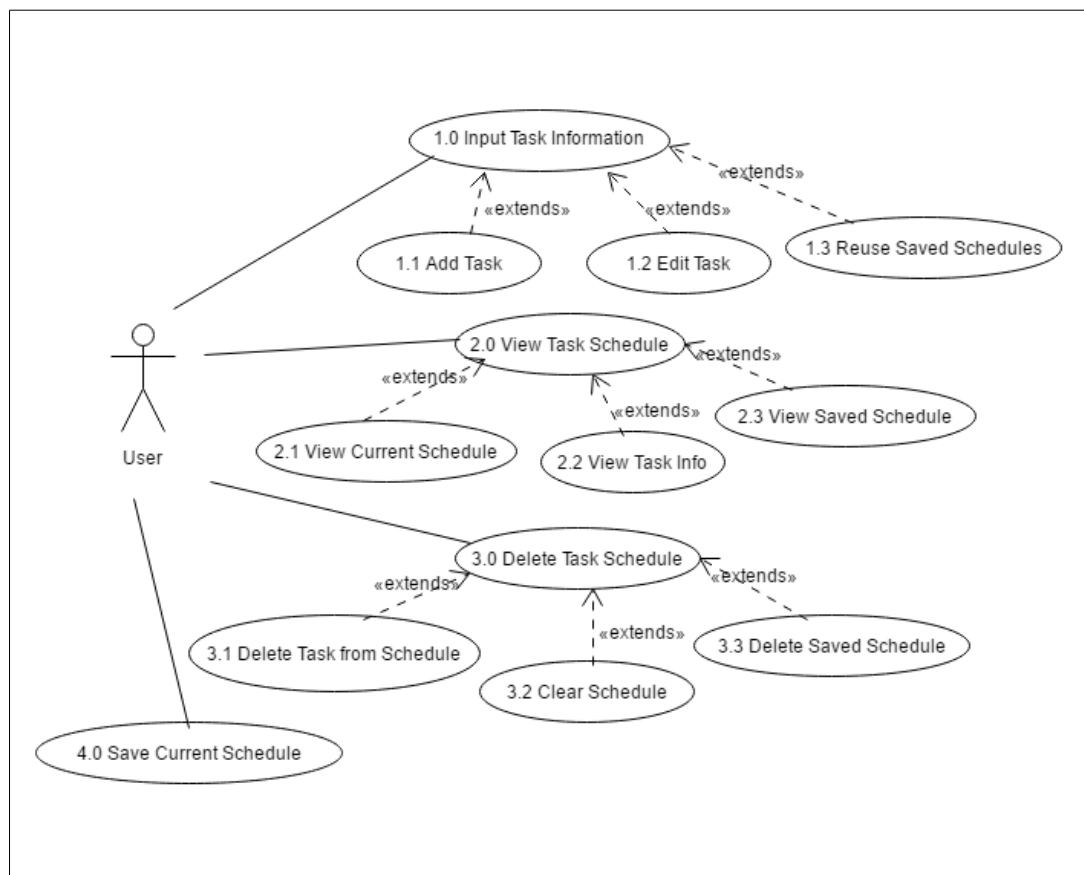
<b>Revision Date</b>	<b>Person Responsible</b>	<b>Version Number</b>	<b>Modification</b>
9/22/16	Gerry Agluba	1.0	Initial Document. Added the Document Purpose, Target Audience, Use-Case Diagram and System Description.
9/23/16	Sharleen Joy Go	2.0	Edited the Document Purpose and System Description. Added the Delete Saved Schedule and View Saved Schedules use-cases in the diagram. Wrote the description for each use-case.
9/28/16	Robelle Silverio	3.0	Changed the Use-Case Diagram.
9/28/16	Sharleen Joy Go	4.0	Added descriptions for Use-Cases Input Task Information, View Task Schedule and Delete Task Schedule. Edited the descriptions of use-cases Add Task and Edit Task. Changed the numbering of the use-cases. Added the link to this file.
10/08/16	Sharleen Joy Go	5.0	Edited the Description of the system

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**System Name:** Task Scheduling System

**Description:** The system is basically an interconnection between the user and all the functionalities provided by the task scheduler. The user feeds this system with a series of tasks information which are all for the current day: the system does scheduling on a daily basis. In return, this system's functionalities work together to provide the user with a one day schedule of tasks that satisfies all conditions inputted by the user for each task.

**Use-Case Diagram:**



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*List of Actors:*

<b>Actors</b>	<b>Description</b>
User	This is any person who has a hand full of tasks but possibly doesn't have a sense of organization. He has access to all of the use-cases of the system. From this actor, the system receives commands such as: add a new task in the schedule, delete a task from the current schedule, edit a task's information from the current schedule, clear the current schedule, view a certain task's information, display the current schedule, save the current schedule, view a saved schedule, reuse a saved schedule and delete a schedule from the list of saved schedules. The system's major input, the tasks, will solely come from this actor. At the same time, this actor will receive the system's major output: the schedule.

*List of Use-cases:*

<b>Use-Case</b>	<b>Description</b>
Use-Case 1.0 Input Task Information	The purpose of this use-case is solely to obtain any sort of information from the user regarding the desired schedule.
Use-Case 1.1 Add Task	The purpose of this use-case is to allow the user to add a new task to the current schedule. The user will input the task title, type (fixed or flexible: fixed tasks must be done on a specific time while flexible tasks may be done at any time during the day but may be controlled to some extent by adding constraints), and duration. If the inputted task was fixed, the user will be asked to enter the start time of the task. If the inputted task was flexible, the user will be given options to add a priority and constraints such as a preferred time range for the task to be done and the possibility of partitioning the said task.
Use-Case 1.2 Edit Task	This use-case allows the user to edit the information of any task in the current schedule. For fixed tasks, its start time, title and/or duration may be changed. For flexible tasks, its title, priority and/or duration may be changed. Also, its constraints may be changed or deleted.
Use-Case 1.3 Reuse Saved Schedule	This use-case will allow the User to reuse any of his saved schedules. The saved schedules' names would be listed and the user would choose from one of them. Afterwards, the chosen schedule will be loaded as the current schedule. Without this use-case, the schedules stored by the Save Schedule use-case would be futile.
Use-Case 2.0 View Task Schedule	All sorts of information that the user is allowed to view is handled by this use-case. The purpose of this use-case is to allow the user to view any information that the user had previously entered into the system.
Use-Case 2.1 View Current Schedule	This use-case will allow the user to view the schedule that the system has made given all the user's inputs. Each task's title will appear along side its allotted time range and they will be sorted in increasing order of time.
Use-Case 2.2 View Task Info	The user may view a specific task's information through this use case. The task title, type, start time, end time, duration, priority and constraints will be displayed.

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<b><i>Use-Case</i></b>	<b><i>Description</i></b>
Use-Case 2.3 View Saved Schedules	This use-case will allow the user to view any of his saved schedules. The saved schedules' names would be listed and the user may choose to view any of them. The chosen schedule will be displayed in the same manner as the View Current Schedule use-case displays the current schedule.
Use-Case 3.0 Delete Task Schedule	This use-case handles all sorts of deletions that the user is allowed to make in the Task Scheduler System. The purpose of this use-case is to delete any information that the user had previously entered into the system.
Use-Case 3.1 Delete Task from Schedule	The user may delete any task from the current schedule through this use-case. After the selected task is deleted, the resulting schedule is exactly the same as the old one except for the absence of the deleted task.
Use-Case 3.2 Clear Schedule	If at some point the user wishes to create a completely new schedule, he may delete all the tasks from the current schedule through this use-case.
Use-Case 3.3 Delete Saved Schedule	This use-case will allow the user to removed any schedule from the list of saved schedule. The saved schedules' names will be listed. Afterwards, the chosen schedule will be permanently removed from the list and may no longer be viewed or reused.
Use-Case 4.0 Save Current Schedule	If the user wishes to save the current schedule for future use, he may do so through this use-case. The user will be asked to name the current schedule, then this use-case will add the schedule to the list of saved schedules. This use-case will come in handy when there is some set of tasks which needs to be repeated in the future given the exact same conditions for each task.