

Project Design - 1st half

Part I. Reason for Choosing the Project

The project we decided to work on was a task organizer/schedule. It will help students manage their time for academics and other endeavors. We chose this project out of the others for a few reasons. The first reason was because it was the most simple project proposal out of everyone from the group. The second reason was because it was the most in-depth in terms of planning out its functions. The member who created it has also already worked on some CRC cards and a short UML diagram based on it for a previous exercise.

Part II. CRC Cards and 3 Scenarios

Abstract	
Task	
SchoolReqs, Extracurriculars	
<ul style="list-style-type: none">• Has a name• Has a deadline• isFinished = false• inProgress (boolean)• Has a description (optional)• Has importance• totalTime (integer)• Can be marked as done (with markDone(task) - sets isFinished to true)• Can be assigned to a student	<ul style="list-style-type: none">• Student• Subject• Section• SchoolReqs• Extracurriculars

Extracurriculars	
Task	
<ul style="list-style-type: none">• Has difficulty (integer)• Has type of club/organization (string)• Has name of club/organization (string)• addsToGrade (boolean)	<ul style="list-style-type: none">• Task

SchoolReqs		Task
<ul style="list-style-type: none"> • Has type of activity (string) • Has a subject (string) • isRequired (boolean) • isIndiv (boolean) 		<ul style="list-style-type: none"> • Task

Teacher		
<ul style="list-style-type: none"> • Has a name (String) • Has a specialization (Subject) • Has an ArrayList section (Sections, TeacherList) • Can assign tasks to students 		<ul style="list-style-type: none"> • Task • Section • Student • Subject

Subject		
<ul style="list-style-type: none"> • Has a subName (string) • Has a unit (float) • Has SubjTeachers (ArrayList<teacher>) • Can categorize the tasks 		<ul style="list-style-type: none"> • SchoolReqs • Teacher

Student		
<ul style="list-style-type: none"> • Has a name • Has a TaskList (ArrayList<Task>) • Has AppUsers (ArrayList<Student>) • Can generate a task list and number of tasks • Can sort tasks by deadline and subject 		<ul style="list-style-type: none"> • Teacher • Section • Task

Section	
<ul style="list-style-type: none"> • Has a name • Has students (ArrayList) • Has list of sections (ArrayList) • Can add a student • Can be given tasks by a teacher 	<ul style="list-style-type: none"> • Student • Teacher

wiseWords	
<ul style="list-style-type: none"> • Has 3 categories with pre-set quotes for each • burnOut: ["Get some sleep", "Don't burn the midnight oil", "take a break"] (array) • unsatisfied: ["Better luck next time", "move forward", "no one is perfect"] (array) • failedAssessment: ["One assessment won't be the end of you", "Bawi next life", "Move on"] (array) • Can print motivational quote from specified category [motivate(category)] • Can add quotes using addWisdom() method 	<ul style="list-style-type: none"> • Student

Part III. Scenarios

I: task creation and completion

Scenario A: When user updates task's startTask status

1. SchoolReqs is created
2. It gets added to User's taskList
3. inProgress=false
4. Declaring startTask(s) sets inProgress to true
5. User completes task markDone(s), isFinished is set to true, inProgress set again to false
6. SchoolReqs is removed from the user's TaskList
7. A congratulatory message pops up.

Scenario B: When startTask is not declared

1. SchoolReqs is created
2. It gets added to User's TaskList
3. inProgress=false
4. When inProgress is checked, it is still false
5. User completes task markDone(s), isFinished is set to true, inProgress remains false
6. SchoolReqs is removed from the user's TaskList
7. A congratulatory message pops up.

Scenario C:

1. Extracurriculars is created
2. addsToGrade=true
3. It gets added to User's TaskList
4. inProgress=true
5. User completed task markDone(s), isFinished is set to true
6. Extracurriculars is removed from the user's TaskList
7. A congratulatory message pops up.

II. Self-assigned vs. Teacher-assigned

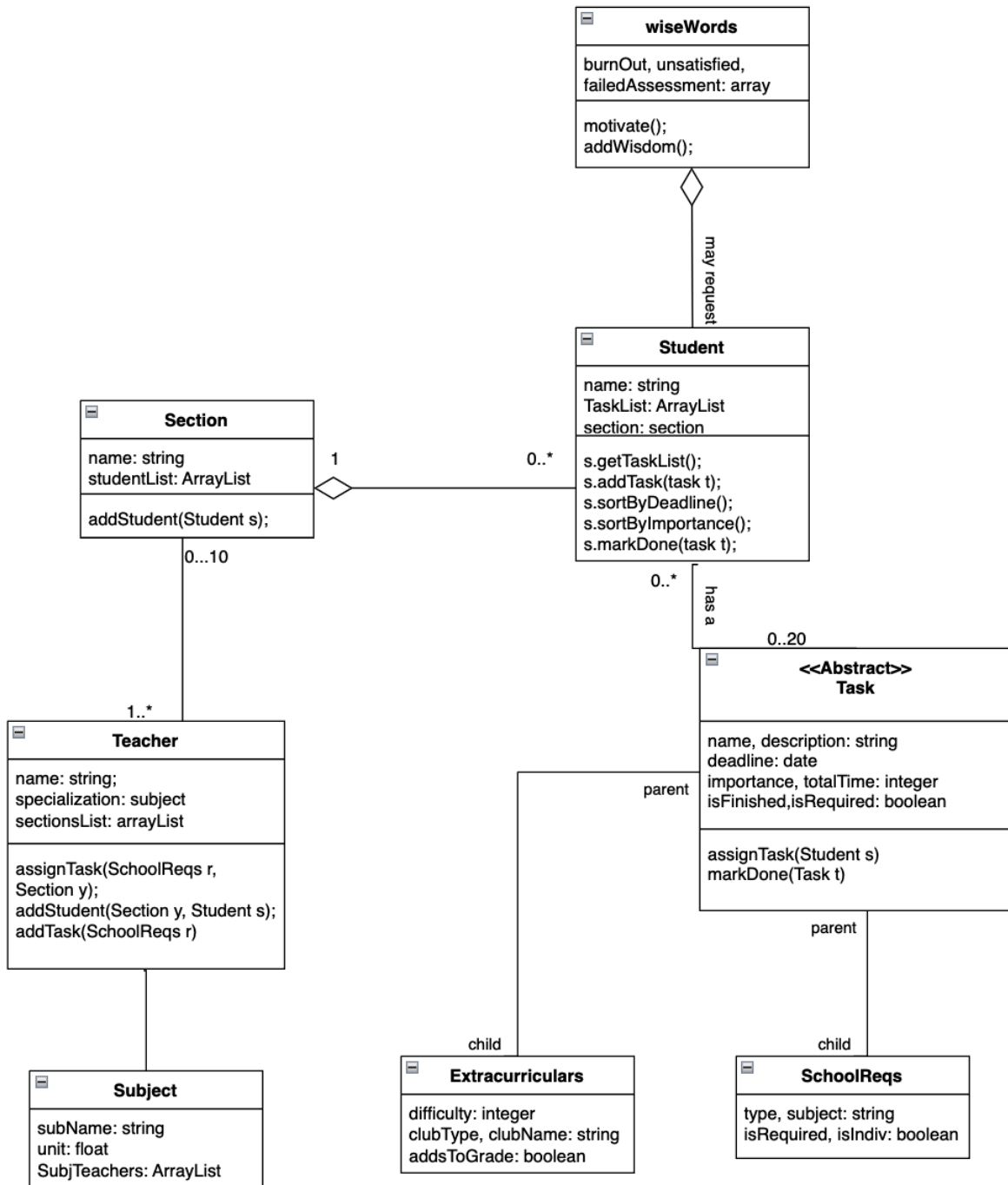
Self-Assigned

1. User creates a new task t (may be SchoolReq, Extracurriculars, or Personal) and specifies all the required fields.
2. The task is added to the student's List.
3. Task is completed with markDone(t)
4. Congratulatory message pops up. Removed from student's list.

Teacher-assigned

1. Teacher t creates a new task r (can ONLY be a SchoolReq) and specifies the required fields
2. Teacher assigns task r to sections
3. Users in the sections get notified
4. Tasks get added to users' lists
5. User completes task
6. Congratulatory message pops up. Removed from student's list.
7. Teacher t gets notified of the student's completion every time a student completes the task

Part IV. UML Diagram



Part V. List of Exceptions

1. InvalidInputException

- a. This exception occurs when the input is invalid for a specific box. It handles an invalid input that does not fall in any of the given categories **by highlighting the box in red** to emphasize it to the user. This allows them to know which error to correct.
 - i. “The section ____ does not exist”

2. DeadlineInvalidException

- a. This exception occurs when a date that was set is not a valid date. It ensures that the deadline is not a date that has already passed.
 - i. “05/13/2023 is an invalid date !!!”

3. TasksInputException

- a. This exception occurs when the limit number of tasks has been reached. This happens when a student has more than 3 tasks for one subject per day. When this occurs, there will be a **pop-up in red** that indicates that the limit has been reached.
 - i. “The student ____ has exceeded the maximum amount of tasks in the subject ____ on the date ____!”

4. ExtracurricularLimitException

- a. This exception occurs when the limit to the number of extracurricular activities a student can participate in has exceeded. A student is limited to 3 extracurriculars per elective. When the limit is exceeded, there will be a **pop-up in red** that indicates that the limit has been reached.
 - i. “The student ____ has exceeded the max amount of tasks in the elective ____!”

Part VI. Initial Design of User Interface

Pro - Tasktinate

Tasks SchoolReqs Extracurriculars +

Type ▾ Status ▾ Due ▾ Teacher ▾ Section ▾ Name of EC ▾ Type of EC ▾

Student Council

Aa Task Name	Student / s	Deadline	In Progress	Is Finished	Importance	Time	Description
Setting up of props	Lumbres	09 / 04 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	High	5 hrs. 45 mins	masakit sa ulo
Meeting Notes	Lumbres	04 / 10 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Low	2 hrs. 20 mins	masakit sa ulo
Implementation of plans	Fulo	09 / 24 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Medium	2 hrs. 20 mins	masakit sa ulo
Project set-up	Gellido	02 / 15 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	High	5 hrs. 45 mins	masakit sa ulo
Planning of next event	Lumbres	09 / 04 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Low	2 hrs. 20 mins	masakit sa ulo
Procurement of materials	Lumbres	09 / 07 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Medium	2 hrs. 20 mins	masakit sa ulo
+ New							

ALERT

The student "Lumbres" has exceeded the max amount of tasks in the elective "Student Council" !!!

Kandili

Aa Task Name	Student / s	Deadline	In Progress	Is Finished	Importance	Time	Description
Setting up of materials	Lumbres	01 / 24 / 2023	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	High	5 hrs. 45 mins	masakit sa ulo
	Gellido, Sison, ...	02 / 10 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Low	2 hrs. 20 mins	masakit sa ulo
	Fulo	02 / 10 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Medium	2 hrs. 20 mins	masakit sa ulo
	Gellido	01 / 24 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	High	5 hrs. 45 mins	masakit sa ulo
	Lumbres	02 / 10 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Low	2 hrs. 20 mins	masakit sa ulo
	Lumbres	02 / 15 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Medium	2 hrs. 20 mins	masakit sa ulo
+ New							

Student Council

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Setting up of materials	Lumbres	01 / 24 / 2023	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	High	5 hrs. 45 mins	masakit sa ulo
	Gellido, Sison, ...	02 / 10 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Low	2 hrs. 20 mins	masakit sa ulo
	Fulo	02 / 15 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Medium	2 hrs. 20 mins	masakit sa ulo
	Gellido	01 / 24 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	High	5 hrs. 45 mins	masakit sa ulo
	Lumbres	02 / 10 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Low	2 hrs. 20 mins	masakit sa ulo
	Lumbres	02 / 15 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Medium	2 hrs. 20 mins	masakit sa ulo
+ New							

Student Council

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	Gellido, Sison, ...	02 / 10 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Low	2 hrs. 20 mins	masakit sa ulo
	Fulo	02 / 15 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Medium	2 hrs. 20 mins	masakit sa ulo
	Gellido	01 / 24 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	High	5 hrs. 45 mins	masakit sa ulo
	Lumbres	02 / 10 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Low	2 hrs. 20 mins	masakit sa ulo
	Lumbres	02 / 15 / 2024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Medium	2 hrs. 20 mins	masakit sa ulo
+ New							