Group 8 Milestone 4 Decision Support Tool

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Introduction

- Many occasions throughout university and in the workplace require group work
- There are many benefits to working with a group, however it can also be difficult to get everyone on the same page
- The purpose of the MSCI 100 term project is to create a decision support tool in Excel to help students plan and execute group projects
- The goal for the decision support tool is to optimize the amount of effort and time each group member puts into the project so that the team works as effectively and efficiently as possible

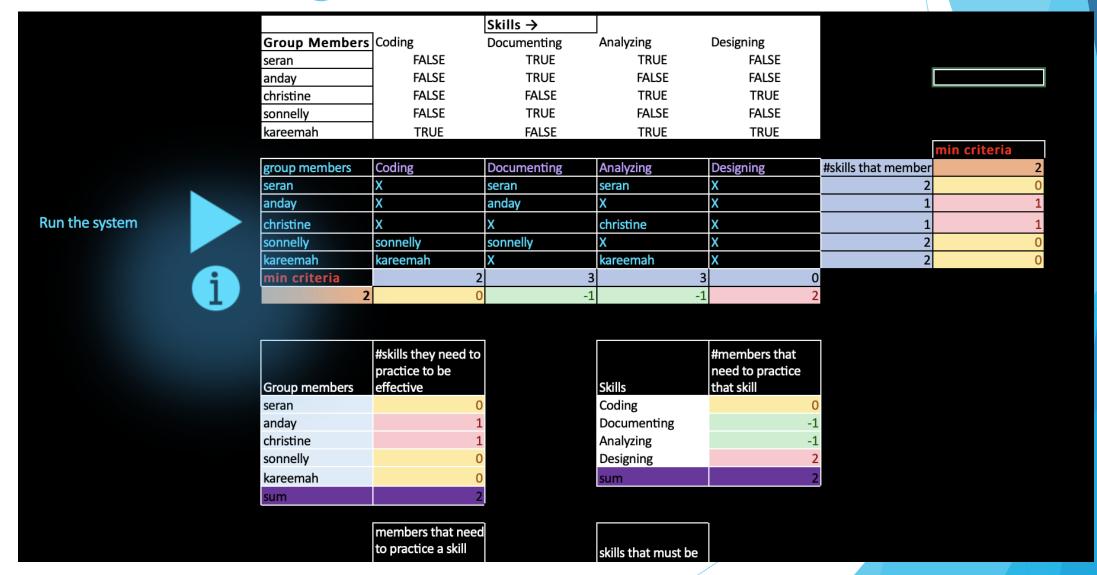
Identifying the Problem

- Inability to create a proper schedule/timeline for the project.
- Group members lacking time management towards their individual tasks.
- Lack of communication between group members.
- Assigning tasks to group members who lack the skills to complete said tasks.
- Poor monitoring of project progress.

The Decision Support Tool

- Skills Manager
 - Overview on required skills that should be learned or developed more
- Schedule Manager
 - Displays availability of group members and identifies the optimal time to schedule a group meeting
- Task Assigner
 - Delegates tasks to team members based on skills
- Activities Sheet
 - Updates progress status as checkpoints are met, counts down days until deliverables are due, indicates urgency/priorities
- Gantt Chart
 - Visual representation of overall progress

Skills Manager



Schedule Manager

Monday			MEMBERS				Tuesday			MEMBERS			
time	anday	seran	christine	sonnelly	kareemah		time	anday	seran	christine	sonnelly	kareemah	1
7:00	busy	FREE	FREE	FREE	FREE		7:00	busy	FREE	FREE	FREE	FREE	
8:00	FREE	busy	busy	busy	busy		8:00	Free	busy	busy	busy	busy	
9:00	busy	FREE	busy	FREE	FREE		9:00	busy	FREE	busy	FREE	FREE	
10:00	busy	busy	FREE	busy	busy		10:00	busy	busy	FREE	busy	busy	
11:00	FREE	FREE	busy	FREE	FREE		11:00	Free	FREE	busy	FREE	busy	
12:00	busy	busy	FREE	busy	busy		12:00	busy	busy	FREE	busy	busy	
13:00	busy	FREE	busy	busy	busy		13:00	busy	FREE	busy	busy	FREE	
14:00	FREE	busy	busy	FREE	FREE		14:00	Free	busy	busy	FREE	busy	
15:00	FREE	FREE	FREE	busy	busy		15:00	Free	FREE	FREE	busy	FREE	
16:00	busy	busy	busy	FREE	FREE		16:00	busy	busy	busy	FREE	busy	
17:00	busy	FREE	FREE	busy	busy		17:00	busy	FREE	FREE	busy	busy	
18:00	FREE	free	FREE	FREE	FREE		18:00	FREE	busy	FREE	FREE	FREE	
19:00	busy	FREE	busy	busy	busy		19:00	busy	FREE	busy	busy	busy	
20:00	busy	busy	FREE	busy	busy		20:00	busy	busy	FREE	busy	FREE	
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Task Assigner

max hours a day to work on the project

2

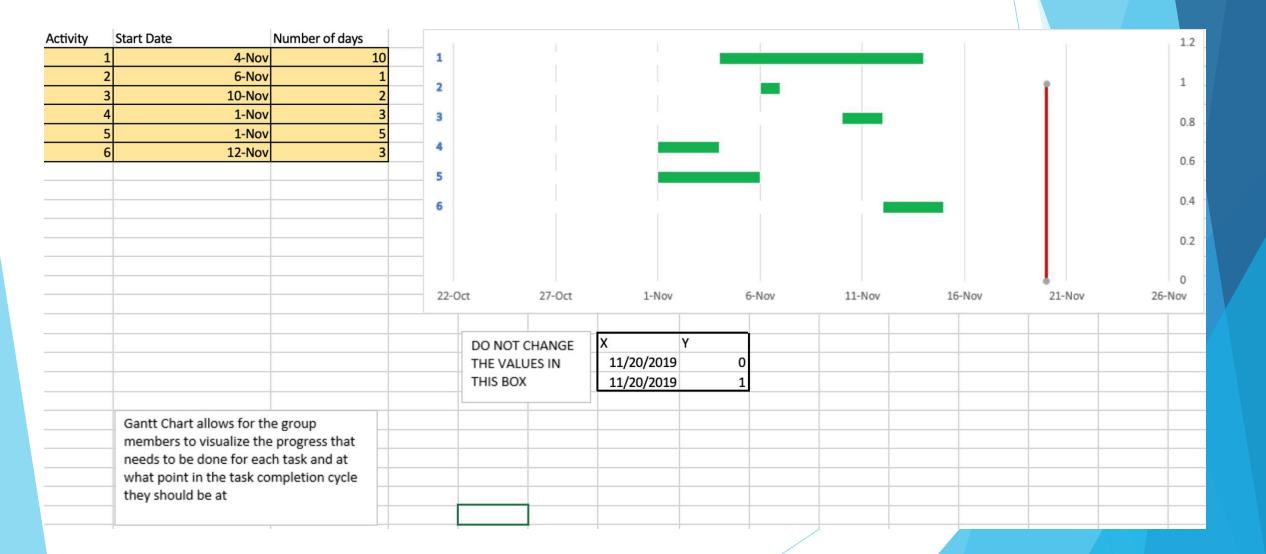
TASKS	hours	today's date	deadline	days remain	Hours per da	# of individu	Coding	Documenting	Analyzing	Designing	
TASK1	20	11/20/2019	11/22/2019	2.00	10.00	6					
TASK2	5	11/20/2019	11/23/2019	3.00	1.67	1					
TASK3	15	11/20/2019	11/24/2019	4.00	3.75	2					
TASK4	20	11/20/2019	11/25/2019	5.00	4.00	3					
TASK5	11	11/20/2019	11/26/2019	6.00	1.83	1					
TASK6	9	11/20/2019	11/27/2019	7.00	1.29	1					
TASK7	8	11/20/2019	11/28/2019	8.00	1.00	1					
TASK8	4	11/20/2019	11/29/2019	9.00	0.44	1					

FALSE	TRUE	TRUE	FALSE
FALSE	TRUE	FALSE	FALSE
FALSE	FALSE	TRUE	TRUE
FALSE	TRUE	FALSE	FALSE
TRUE	FALSE	TRUE	TRUE

Activities

Start Date	Finish Date	Days Left	Group member r	Checkpoint 1 cor	Checkpoint 2 cor	Checkpoint 3 cor	Checkpoint 4 cor	# Checkpoints do	Total # checkpoi	ı Progress	Urgency N	STATUS
4-Nov	14-Nov	-6.00	Group	TRUE	FALSE			1	2	50%	-6.00	LATE
6-Nov	7-Nov	-13.00	Anday	TRUE	TRUE	TRUE		3	3	100%	-6.49	LATE
10-Nov	12-Nov	-8.00	Christine					0		#DIV/0!	#DIV/0!	#DIV/0!
1-Nov	4-Nov	-16.00	Kareemah					0		#DIV/0!	#DIV/0!	#DIV/0!
1-Nov	6-Nov	-14.00	Seran					0		#DIV/0!	#DIV/0!	#DIV/0!
12-Nov	15-Nov	-5.00	Sonnelly					0		#DIV/0!	#DIV/0!	#DIV/0!

Gantt Chart



Conclusion

- The decision support tool increases the effectiveness and efficiency of working on a group project
- ► The tool is easy to follow and user friendly
- Helps alleviate some common issues when working in groups
 - Time management, communication, delegation of tasks etc.