

# BINUS University

<b>Academic Career:</b> <i>Undergraduate / <del>Master</del> / <del>Doctoral</del> *)</i>		<b>Class Program:</b> <i>International/Regular/Smart Program/Global Class*)</i>	
<input type="checkbox"/> Mid Exam <input checked="" type="checkbox"/> Final Exam <input type="checkbox"/> Short Term Exam <input type="checkbox"/> Others Exam : _____		<b>Term : Odd/Even/Short *)</b>	
<input checked="" type="checkbox"/> Kemanggisan <input checked="" type="checkbox"/> Alam Sutera <input type="checkbox"/> Bekasi <input type="checkbox"/> Senayan <input type="checkbox"/> Bandung <input type="checkbox"/> Malang		<b>Academic Year :</b> <b>2020 / 2021</b>	
Faculty / Dept. : School of Computer Science		Deadline	Day / : Wednesday / Feb 10 <sup>th</sup> , Date 2021 Time : 13.00
Code - Course : COMP6107 - Agile Software Development		Class : All Classes	
Lecturer : Team		Exam Type : Online	
*) <i>Strikethrough the unnecessary items</i>			
<b>The penalty for CHEATING is DROP OUT!!!</b>			

## I. Case (100%)

A restaurant owner is planning to computerize their business. This restaurant provides dine-in, take-away and delivery services. The restaurant owner needs to have monthly reports on how the restaurant performs (sales reports).

The restaurant owner has asked you to develop the system. You (as the scrum master) brought your team to work on this application.

Below are the results from the sprint planning activity: Note that the number inside the brackets shows the task number.

Login	UI (1)	Database Preparation (2)	Passwd Validation (3)	Testing (4)	
	Donald	Mickey	Louie	Minnie	
	3 hrs	3 hrs	4 hrs	3 hrs	
Food Order	UI (5)	Dine in (6)	Take Away (7)	Delivery Service (8)	Testing (9)
	Minnie	Dewey	Mickey	Huey	Daisy
	8 hrs	15 hrs	8 hrs	6 hrs	4 hrs
Menu Preparation	UI (10)	CRUD Menu (11)	Testing (12)		
	Donald	Louie	Minnie		
	6 hrs	15 hrs	4 hrs		
Payment	UI (13)	Process Payment (14)	Prepare for delivery (15)	Testing (16)	
	Minnie	Huey	Dewey	Daisy	
	4 hrs	14 hrs	3 hrs	4 hrs	
Reporting	UI (17)	Reports (18)	Testing (19)		
	Donald	Mickey	Daisy		
	4 hrs	15 hrs	5 hrs		

Verified by,  <i>Alvina Aulia, S.Kom., M.T.I. (D4554) and sent to Program on Jan 18, 2021</i>
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The following shows the daily plan for the sprint:

Plan	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14
Task 1 (Donald)	3	2	1	0	0	0	0	0	0	0	0	0	0	0
Task 2 (Mickey)	3	2	1	0	0	0	0	0	0	0	0	0	0	0
Task 3 (Louie)	4	2	1	0	0	0	0	0	0	0	0	0	0	0
Task 4 (Minnie)	3	2	1	0	0	0	0	0	0	0	0	0	0	0
Task 5 (Minnie)	8	6	6	5	3	3	2	0	0	0	0	0	0	0
Task 6 (Dewey)	15	13	13	10	8	6	6	5	4	4	3	2	1	0
Task 7 (Mickey)	8	7	7	5	5	4	2	2	0	0	0	0	0	0
Task 8 (Huey)	6	5	3	3	1	0	0	0	0	0	0	0	0	0
Task 9 (Daisy)	4	3	3	2	1	0	0	0	0	0	0	0	0	0
Task 10 (Donald)	6	6	6	6	6	6	5	5	4	3	2	1	0	0
Task 11 (Louie)	15	15	15	12	12	8	8	6	5	3	3	2	1	0
Task 12 (Minnie)	4	4	4	4	4	3	3	2	2	1	1	1	1	0
Task 13 (Minnie)	4	4	4	4	4	4	2	2	0	0	0	0	0	0
Task 14 (Huey)	14	14	14	14	14	14	14	14	10	8	6	3	2	0
Task 15 (Dewey)	3	3	3	3	3	3	3	3	3	3	3	0	0	0
Task 16 (Daisy)	4	3	3	3	3	3	3	3	3	3	3	0	0	0
Task 17 (Donald)	4	4	4	4	4	4	4	4	4	2	2	1	0	0
Task 18 (Mickey)	15	15	15	15	15	15	15	15	10	8	5	3	2	0
Task 19 (Daisy)	5	5	5	5	5	5	5	5	5	3	2	2	1	0
	128	115	109	95	88	78	72	66	50	38	30	15	8	0

These are the conversation of the daily scrum meeting.

The development went according to schedule, with the exception of the following tasks:

Day 2 Dewey has a slight delay in task 6. The delay was for 1 hr.

Day 3 Minnie (task 4) an Louie task 3) have completed their tasks.

Day 5 Donald encountered problem, a delay of 1 hr, therefore the estimated completion is 6hrs. Huey also has a delay of 1 hr in task 8.

Day 9 Huey and Mickey encountered problems in task 14 and task 18 respectively. A delay of 4 hrs for Huey and delay of 3 hrs for Mickey.

Day 10 everyone manage to catch up except for Huey. He still needs 14 hours to complete his work.

Day 11 finally Huey caught up a little. At this point he needs 8 hrs to complete task 14. Donald has completed task 17

Day 12 Huey needs 6 hrs to complete task 14.

Day 13 Huey needs 3 hrs to complete task 14.

Day 14 everyone has completed their tasks.

### Question 1. [20%] Sprint Planning

Suppose you want to make this system in 2 sprints. How would you plan the tasks, (considering the features are the same)? Remember that after each sprint, most likely there will be releases.

### Question 2. [20%] Sprint Release

Prepare the activities that you require for release after the end of the sprint.

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**Question 3. [20%] Sprint Execution**

Prepare the burnt down chart for the planned and actual sprint.

**Question 4. [20%] Sprint Review**

You have noticed some delay occurs during the sprint execution. What are the possible causes of the delay, especially in the case of Huey, where the delay was quite large. How can you anticipate these problems in future?

**Question 5. [20%] Sprint Retrospective**

You need to identify insights in the following category: what worked well, what didn't work well and what are the opportunity to do things differently. Identify 5 insights for each category.

-- Good Luck --

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