

SE324

Software Project Management and  
Economics

HW 3

2022-23 Spring

"Online Operator System"

Group 11

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Ankara

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# 1 Resource Allocation

The project's initial step involved defining the group's members and their responsibilities. The responsibilities assigned to each group member are listed separately in the table that is provided below. In addition to task allocations, we can also view the time allotted to each task and how those tasks are related. There are instances where one work must be finished before beginning another. Assignments due before the current date are also displayed in red, while those due after are displayed in green. Days off or unworked are indicated by yellow boxes. Last but not least, the first of the two numerical figures placed between parentheses represents the time permitted, while the second indicates how much of that time has really been spent on the project.

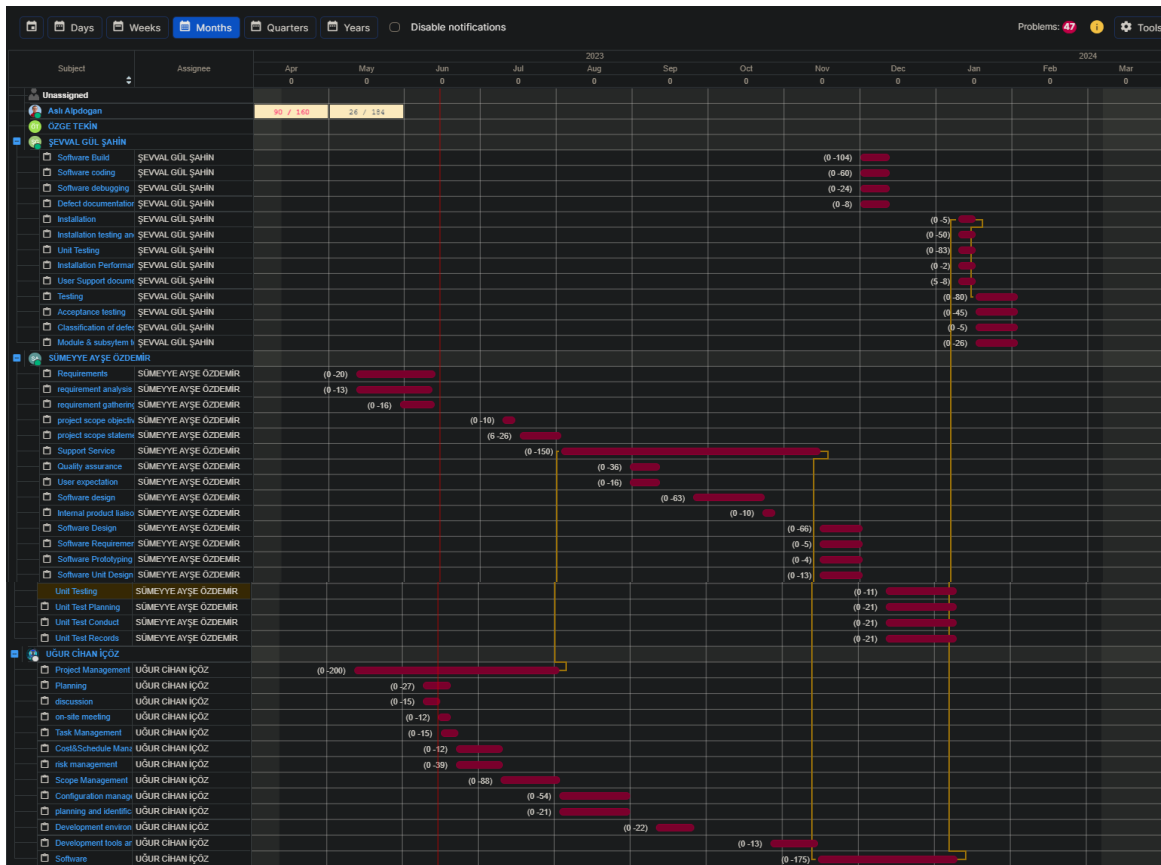


Figure 1

## 2 Budgets and Spent Time

After the project's second phase was completed, it was asked to create a budget planning. Knowing whether employees are paid hourly or daily and how long they work is crucial in order to estimate the budget. We decided to pay the employees an hourly wage in the study we produced, and we set this wage at 78 Euros. The staff work ten hours each day during the weekdays and are off on weekends. This implies that a person who works a full-time job will put in 70 hours each week. The working time is multiplied by the rate to determine the wage that each employee will get. If the employee is specific, his position affects the rate of the transaction. Cost calculations can be done for each of the three group members once their working hours and pay rates have been established. The rate is set at 78 as you do this.

*task without assignee(estimated hours \* planned hourly rate)*

*task with assignee(estimated hours \* rate by hierarchy )*

Planned and real costs are two distinct notions for income and cost that exist concurrently. The other is based on real data collected, whereas the first is based on estimates.

In addition to the responsibilities, we have included a new expense called rent to our financial planning. It is clear that the anticipated and actual components of this additional expense vary.

Project budget: Online Operator System			Euro
	PLAN	REALITY	
Incomes:	52,585 €	147,068 €	
Total costs:	33,245 €	99,550 €	
Personnel costs:	550 €	Spent time 1715.0 hrs. / 85,750 €	
Expenses:	32,695 €	13,800 €	
Profit:	19,340 €	47,518 €	

Figure 2

Spent time (48)						
<a href="#">My montly report 20</a> <a href="#">My yearly report 20</a> <a href="#">Team members report 48</a>						
<a href="#">Filters active</a> <a href="#">Options</a>						
Details	Report	Timesheet				
✓	DATE	PROJECT	TASK	ACTIVITY	COMMENT	SPENT TIME
Total:						1,715.00 h
SE	ŞEVAL GÜL ŞAHİN	(16)	(29.15%)			500.00 h
SA	SÜMEYYE AYŞE ÖZDEMİR	(19)	(30.44%)			522.00 h
U	UĞUR CİHAN İÇÖZ	(13)	(40.41%)			693.00 h

Figure 3

		MAY 2023	JUNE 2023	TOTAL	
ŞEVAL GÜL ŞAHİN	Online Operator System	5.00 h	509.00 h	514.00 h	
SÜMEYYE AYŞE ÖZDEMİR	Online Operator System	-	523.00 h	523.00 h	
UĞUR CİHAN İÇÖZ	Online Operator System	-	678.00 h	678.00 h	
Total		5.00 h	1,710.00 h	1,715.00 h	
✓	DATE	PROJECT	TASK	ACTIVITY	SPENT TIME
Total:					1,715.00 h

Figure 4



Figure 5


### 3 Example of Possible Problem

Employee health problems are one of the most livable problems. If an employee is unable to work due to such a situation, this has different effects and consequences.

In our example, due to the inability of one of the employees to work for a certain period of time due to health problems, the term of office was extended and the other two employees had to do the work of the sick employee. In addition, due to the postponed task, it caused the project to be shifted for a while and increased expenditure. This resulted in a change in both the Gantt chart and the budget. The results of the changes can be seen in the figures below.




Figure 6

 **Spent time**

DATE\*

16 Jun 2023

HOURS\* 

0

COMMENT

Comment

ACTIVITY\*

Work

☒ BILLABLE?

Log time









DATE	USER	COMMENT	SPENT TIME	
TOTAL TIME			150.00 H	
02 Jun 2023	SÜMEYYE AYŞE ÖZDEMİR		10.00	 
14 Jun 2023	SÜMEYYE AYŞE ÖZDEMİR		10.00	 
05 Jun 2023	SÜMEYYE AYŞE ÖZDEMİR		10.00	 
16 Jun 2023	SÜMEYYE AYŞE ÖZDEMİR		10.00	 

Figure 7