

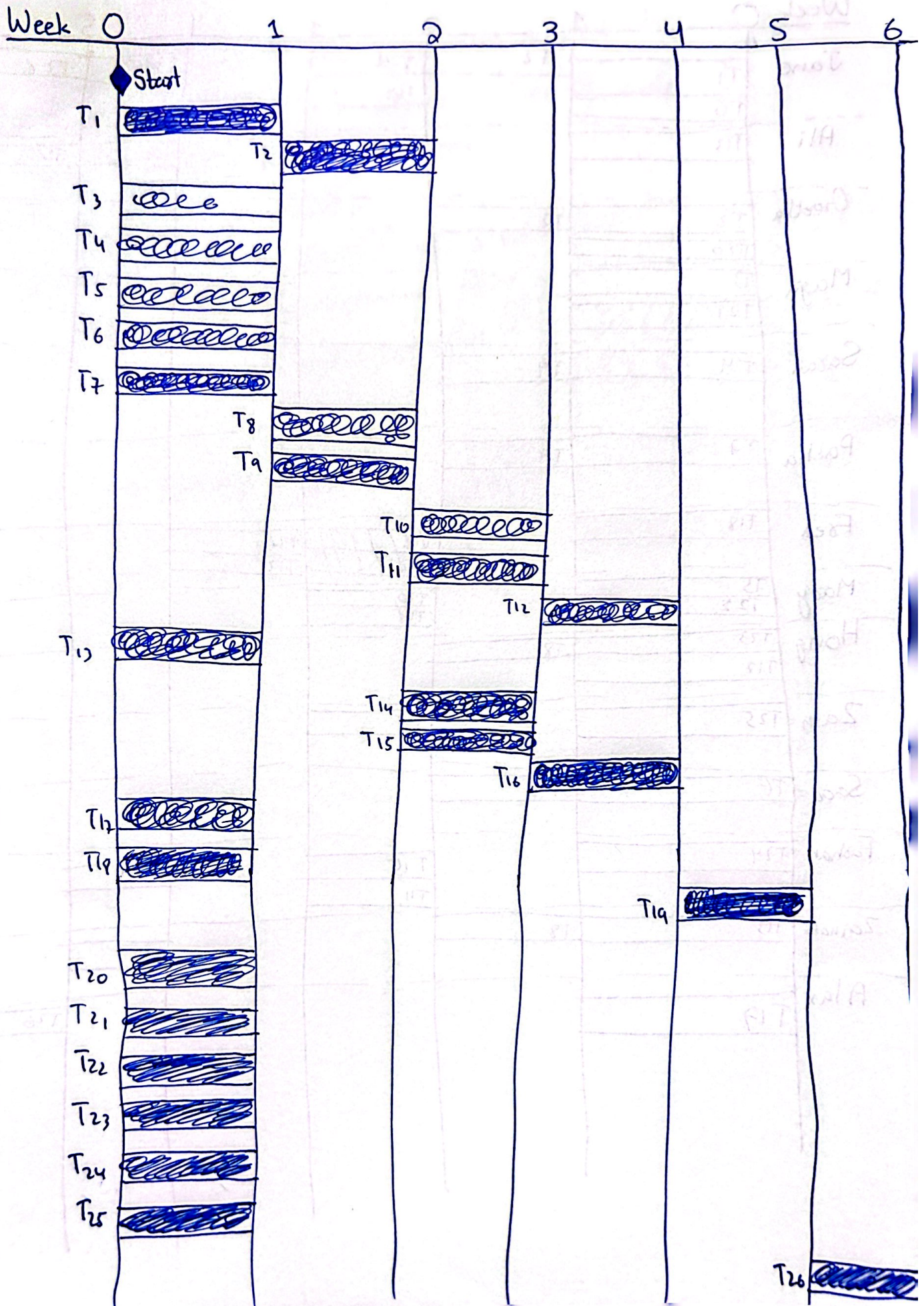


# Task, Durations & Dependencies

Task no.	Effort(person-days)	Duration(days)	Dependencies
T1	8	7	-
T2	5	3	T1
T3	5	3	-
T4	3	1	-
T5	3	1	-
T6	3	1	-
T7	3	1	-
T8	4	2	T1, T13
T9	6	4	T3 (M2)
T10	6	4	T9, T4 (M3)
T11	7	6	T8, T5 (M4)
T12	7	6	T10, T6 (M5)
T13	5	3	-
T14	6	4	T8
T15	6	4	T1, T6
T16	7	6	T2, T14
T17	8	7	-
T18	5	3	-
T19	5	3	T13, T12, T15
T20	6	5	-
T21	7	6	-



# Activity bar chart





# STAFF Allocation Chart.

Week 0	1	2	3	4	5	6
Jane	T1	T2	T11	T14	T26	
	T6		T10	T3		
Ali	T13			T19	T26	
Greetha	T2	T8				
	T20					
Maya	T3		T12			
	T21		T6			
Sarah	T4	T9				
Pasha	T7	T9				
Fred	T18	T16 T12	T16 T12			
Mary	T5 T22	T10 T14				
Hong	T23 T17	T8				
Zain	T25		T14			
Saad	T6	T2				
Faham	T24		T15 T11		T19	
Zainab	T13	T8			T19	
Alax	T17					T26

Q#3:-

For Food Panda app, our application will have an estimated 25000 lines of code. So, assumed KLOC = 25000

→ First find effort:-

$$\text{Effort} = a(\text{KLOC})^b = 3.6(25000)^{1.20} = 682072.45 \text{ PM}$$

→ Now find Development time:-

$$\text{Development time} = c(\text{Effort})^d = 2.5(682072.45)^{0.32} = 183.97 \text{ months}$$

$$\rightarrow \text{Average staff size} = \frac{\text{Effort}}{\text{dev time}} = 3707.51 \frac{\text{persons}}{\text{KLOC/PM}}$$

$$\rightarrow \text{Productivity} = \frac{\text{KLOC}}{\text{Effort}} = 0.036 \text{ KLOC/PM}$$