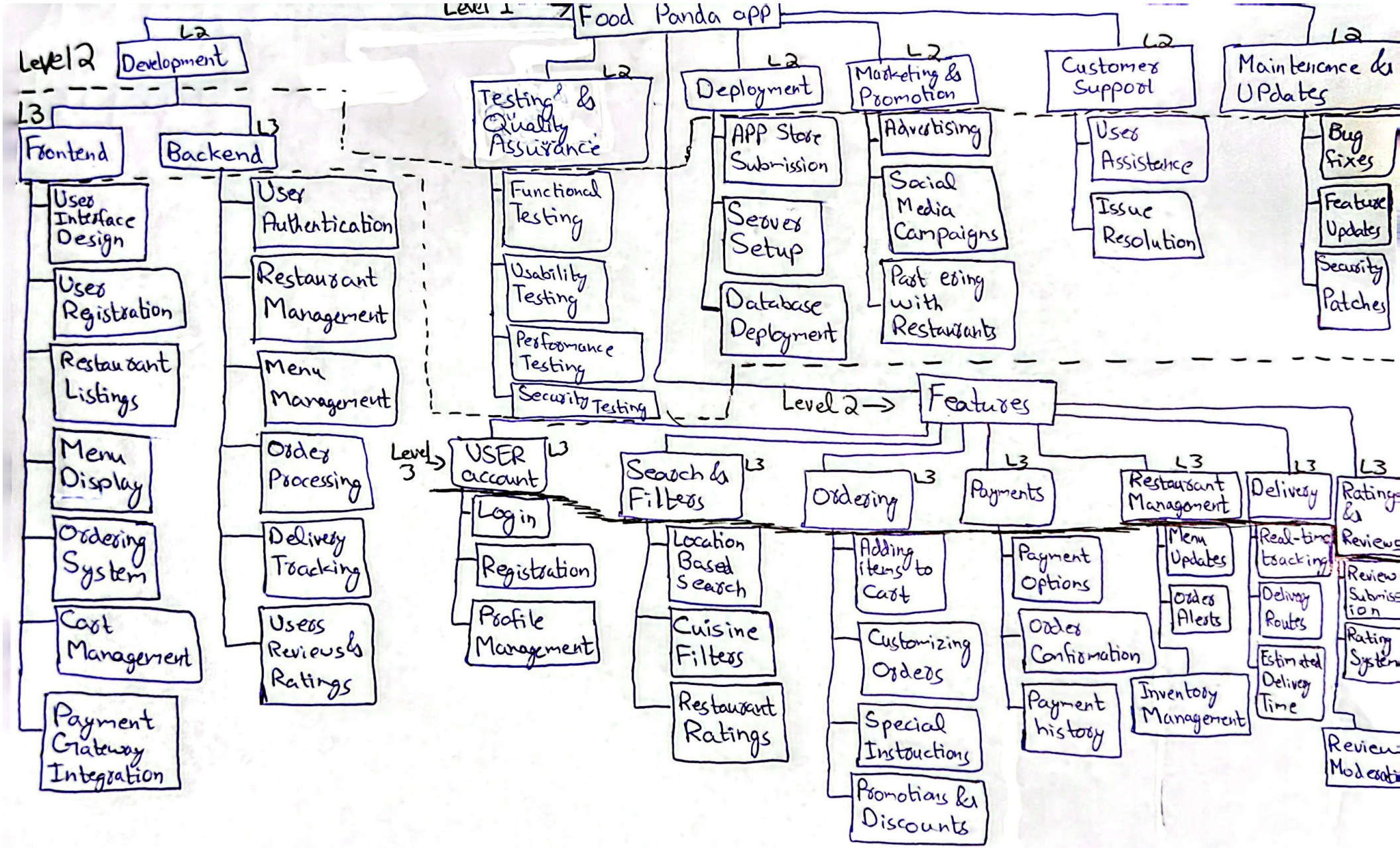
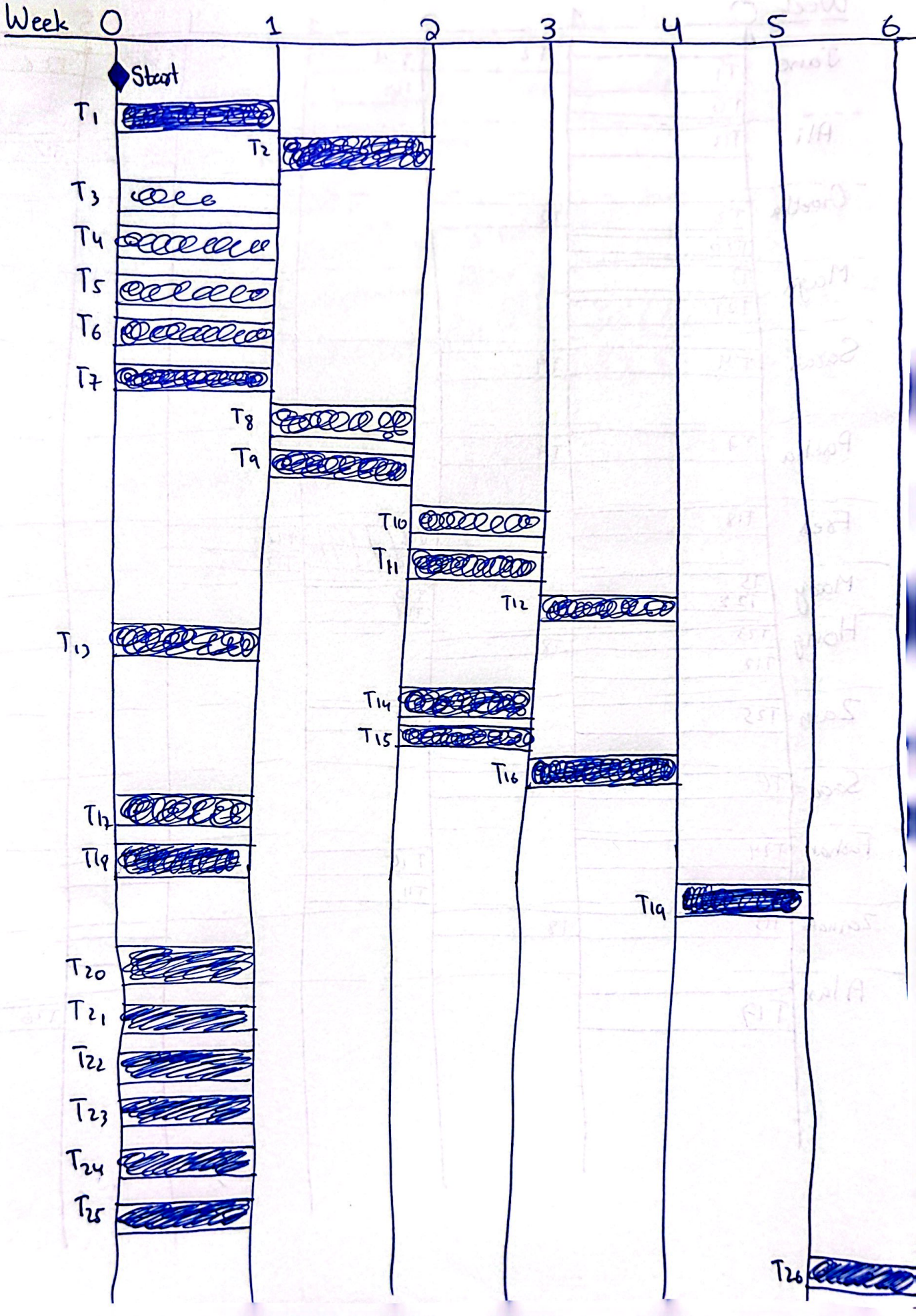


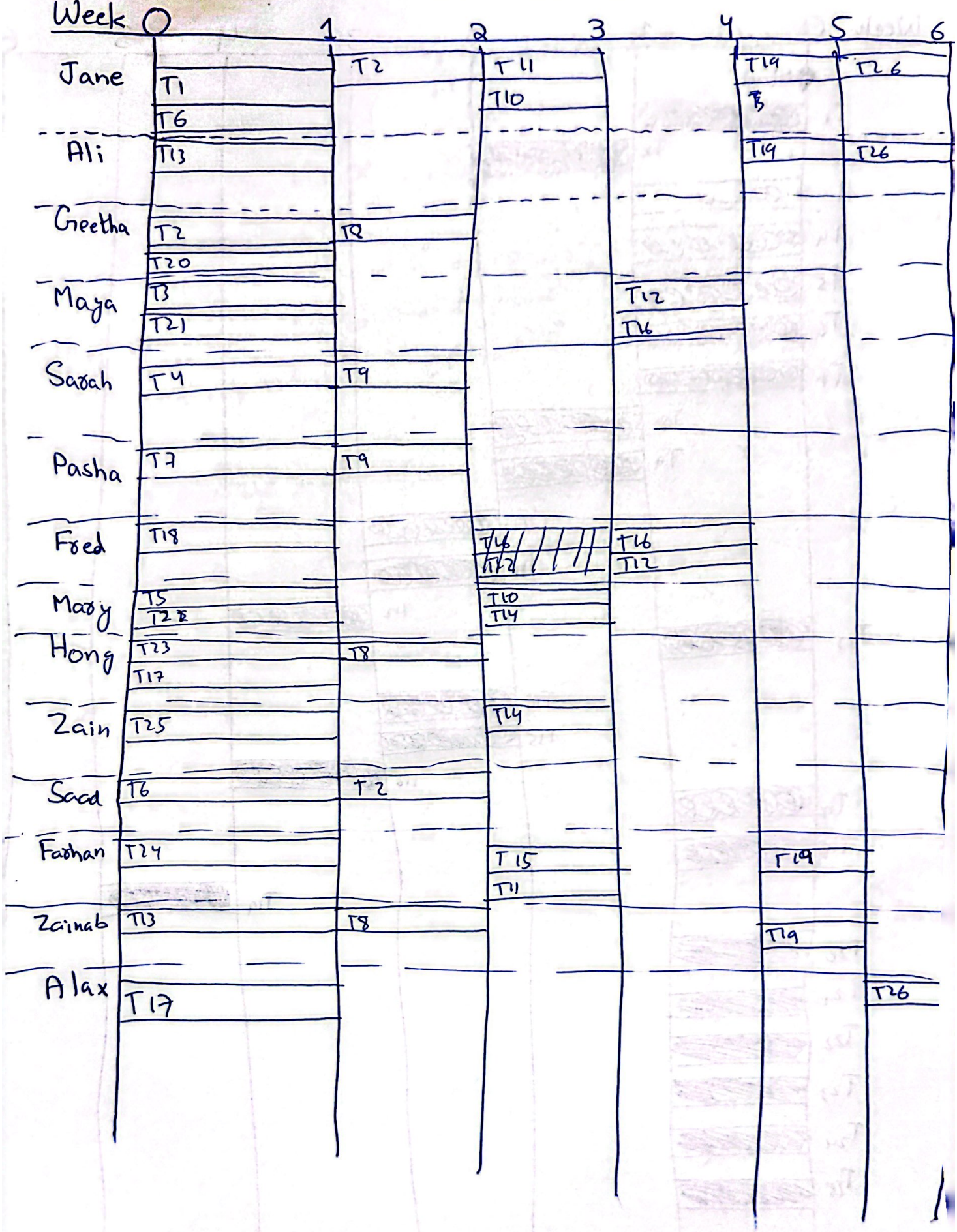
Task, Durations & Dependencies

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.



Q#3:-

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

→ First find effort:-

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

→ Now find Development time:-

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

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

→ Productivity = $\frac{KLOC}{Effort} = 0.036$ KLOC/PM.