



ESTIMATING TIME (EXPECTED TIME & CRITICAL PATH)

Egypt Foods Sales System



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EGYPT FOODS

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Task Number	Task Name	Optimistic Time	Realistic Time	Pessimistic Time	Expected Time $Ex = \frac{o+4r+p}{6}$	Dependency
1	System Planning	2	3	4	3	–
2	Stakeholder Requirement	1	2	3	2	1
3	Analysis Requirement	3	4	6	5	2
4	Stakeholder feedback	1	2	2	2	3
5	Test environment	2	3	4	3	3
6	Database design	4	5	6	5	3
7	Interface design	3	4	5	4	6
8	Take an approval	1	2	2	2	7
9	License Contracts	4	5	6	5	8
10	Hardware Contracts	4	5	6	5	8
11	Mobil Control Contract	4	5	6	5	9
12	E-Payment contract	4	5	6	5	11
13	Divide the sales system for software configuration	3	4	4	4	9, 11
14	Hiring android developers for mobile application	4	5	6	5	11
15	Hiring IT technical	4	5	6	5	10
16	Implementing the mobile application	5	6	7	6	14
17	Configure the sales buzz software	4	5	6	5	15, 6
18	Setup the handheld devices	2	3	4	3	17
19	Testing the mobile application and sales buzz	3	4	6	5	18
20	Take the feedback to complete the rest of the tasks	1	2	2	2	19
21	Installation of the system	3	4	4	4	20
22	Testing	3	4	6	5	21
23	Connections	5	6	6	6	22
24	Prepare the use of guidance document	4	5	6	5	23
25	Training	4	5	7	6	24
26	Feedback	1	2	2	2	24, 25
27	Present the mobile application for customers on google play	3	4	4	4	26
28	Get feedback from customers on the mobile application	1	2	2	2	27

Task Num	Task Name	Latest Time (LS:LF)		Earliest Time (ES:EF)		Slack Time	Critical Path	Dependency	Duration
1	System Planning	0	3	0	3	0	√	—	3
2	Stakeholder Requirement	3	5	3	5	0	√	1	2
3	Analysis Requirement	5	10	5	10	0	√	2	5
4	Stakeholder feedback	76	78	10	12	66	0	3	2
5	Test environment	75	78	10	13	65	0	3	3
6	Database design	10	15	10	15	0	√	3	5
7	Interface design	15	19	15	19	0	√	6	4
8	Take an approval	19	21	19	21	0	√	7	2
9	License Contracts	57	62	21	26	36	0	8	5
10	Hardware Contracts	19	24	19	24	0	√	8	5
11	Mobil Control Contract	62	67	26	31	36	0	9	5
12	E-Payment contract	73	78	31	36	42	0	11	5
13	Divide the sales system for software configuration	74	78	31	35	43	0	9, 11	4
14	Hiring android developers for mobile application	67	72	31	36	36	0	11	5
15	Hiring IT technical	24	29	24	29	0	√	10	5
16	Implementing the mobile application	72	78	36	42	36	0	14	6
17	Configure the sales buzz software	29	34	29	34	0	√	15, 6	5
18	Setup the handheld devices	34	37	34	37	0	√	17	3
19	Testing the mobile application and sales buzz	37	42	37	42	0	√	18	5
20	Take the feedback to complete the rest of the tasks	42	44	42	44	0	√	19	2
21	Installation of the system	44	48	44	48	0	√	20	4
22	Testing	48	53	48	53	0	√	21	5
23	Connections	53	59	53	59	0	√	22	6
24	Prepare the use of guidance document	59	64	59	64	0	√	23	5
25	Training	64	70	64	70	0	√	24	6
26	Feedback	70	72	70	72	0	√	24, 25	2
27	Present the mobile application for customers on google play	72	76	72	76	0	√	26	4
28	Get feedback from customers on the mobile application	76	78	76	78	0	√	27	2