



	Name	Duration	Start	Finish	Predecessor	
1		Communication	1 day	15. 3. 30 8:00	15. 3. 30 5:00		
2		Customer Meeting	1 day	15. 3. 30 8:00	15. 3. 30 5:00		
3		Get Requirement	1 day	15. 3. 30 8:00	15. 3. 30 5:00		
4		Planning	1 day	15. 3. 31 8:00	15. 3. 31 5:00	1	
5		Writing project plan	1 day	15. 3. 31 8:00	15. 3. 31 5:00		
6		Scheduling	1 day	15. 3. 31 8:00	15. 3. 31 5:00		
7		Making WBS	1 day	15. 3. 31 8:00	15. 3. 31 5:00		
8		Allocating human resource	1 day	15. 3. 31 8:00	15. 3. 31 5:00		
9		Modeling	4 days	15. 4. 1 8:00	15. 4. 6 5:00	4	
10		GUI Design	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
11		Java Program	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
12		Design application	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
13		Android Application	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
14		Design application depth	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
15		Design sign in layout	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
16		Design menu&order layout	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
17		Design pop-up window	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
18		Database	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
19		Design database schema	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
20		Define what database functions are required for each activity.	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
21		Security	4 days	15. 4. 1 8:00	15. 4. 6 5:00		
22		Determine security degree	1 day	15. 4. 1 8:00	15. 4. 1 5:00		

		Name	Duration	Start	Finish	Predecessor	
23		Design network security protocols	3 days	15. 4. 2 8:00	15. 4. 6 5:00	22	
24		Data structure	0.5 days	15. 4. 1 8:00	15. 4. 1 1:00		
25		Select data structure	0.5 days	15. 4. 1 8:00	15. 4. 1 1:00		
26		Algorithms	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
27		Design algorithms & mechanisms	1 day	15. 4. 1 8:00	15. 4. 1 5:00		
28		Construction	46 days	15. 4. 7 8:00	15. 6. 9 5:00	9	
29		WBS 1 Implement GUI	5 days	15. 4. 7 8:00	15. 4. 13 5:00		
30		WBS 1.1 Home	5 days	15. 4. 7 8:00	15. 4. 13 5:00		
31		WBS 1.1.2 Make background Image & Button Design	2 days	15. 4. 7 8:00	15. 4. 8 5:00		
32		WBS 1.1.3 Apply media player for advertising	5 days	15. 4. 7 8:00	15. 4. 13 5:00		
33		WBS 1.1.4 Implement blank activities and link it each button ac...	1 day	15. 4. 7 8:00	15. 4. 7 5:00		
34		WBS 1.2 Sign In	3 days	15. 4. 7 8:00	15. 4. 9 5:00		
35		WBS 1.2.1 Implement sign in layout	3 days	15. 4. 7 8:00	15. 4. 9 5:00		
36		WBS 1.3 Menu&Order	4 days	15. 4. 7 8:00	15. 4. 10 5:00		
37		WBS 1.3.1 Implement Android custom list view	2 days	15. 4. 7 8:00	15. 4. 8 5:00		
38		WBS 1.3.2 Implement menu&order layout	2 days	15. 4. 9 8:00	15. 4. 10 5:00	37	
39		WBS 1.4 Coupon Check	1 day	15. 4. 7 8:00	15. 4. 7 5:00		
40		WBS 1.5 Pop-up notification	4 days	15. 4. 7 8:00	15. 4. 10 5:00		
41		WBS 1.5.1 Implement pop-up window	2 days	15. 4. 7 8:00	15. 4. 8 5:00		
42		WBS 1.5.2 Implements pop-up window's alarm music	2 days	15. 4. 9 8:00	15. 4. 10 5:00	41	
43		WBS 2 Implement Functions	25 days	15. 4. 7 8:00	15. 5. 11 5:00	24	
44		WBS 2.1 Database	2 days	15. 4. 7 8:00	15. 4. 8 5:00		

		Name	Duration	Start	Finish	Predecessor	
45		WBS 2.1.2 Implement database	1 day	15. 4. 7 8:00	15. 4. 7 5:00		
46		WBS 2.1.4 Implements common functions	1 day	15. 4. 8 8:00	15. 4. 8 5:00	45	
47		WBS 2.1.5 Implements functions for sign in activity	1 day	15. 4. 8 8:00	15. 4. 8 5:00	45	
48		WBS 2.1.6 Implements functions for coupon activity	1 day	15. 4. 8 8:00	15. 4. 8 5:00	45	
49		WBS 2.1.7 Implements functions for menu&order activity	1 day	15. 4. 8 8:00	15. 4. 8 5:00	45	
50		WBS 2.2 Network	25 days	15. 4. 7 8:00	15. 5. 11 5:00	21	
51		WBS 2.2.1 Build up Server	7 days	15. 4. 7 8:00	15. 4. 15 5:00		
52		WBS 2.2.2 Design network security protocols	3 days	15. 4. 16 8:00	15. 4. 20 5:00	51	
53		WBS 2.2.3 Optimize Server	15 days	15. 4. 21 8:00	15. 5. 11 5:00	52	
54		WBS 2.2.4 Implement network code	2 days	15. 4. 21 8:00	15. 4. 22 5:00	52	
55		WBS 2.3 Make order at table	1 day	15. 4. 21 8:00	15. 4. 21 5:00	52	
56		WBS 2.3.1 Implement a function for get the menu data from th...	1 day	15. 4. 21 8:00	15. 4. 21 5:00		
57		WBS 2.3.2 Implement a function for insert menu data into a dat...	1 day	15. 4. 21 8:00	15. 4. 21 5:00	49	
58		WBS 2.3.3 Implement show menu list function	1 day	15. 4. 21 8:00	15. 4. 21 5:00		
59		WBS 2.3.4 Implement a wish list	1 day	15. 4. 21 8:00	15. 4. 21 5:00		
60		WBS 2.3.5 Implement order function	1 day	15. 4. 21 8:00	15. 4. 21 5:00		
61		WBS 2.4 Give an information about all items and today coffee	10 days	15. 4. 9 8:00	15. 4. 22 5:00		
62		WBS 2.4.1 Receive information when the client get the menu da..	1 day	15. 4. 22 8:00	15. 4. 22 5:00	56	
63		WBS 2.4.2 Insert information into a database when the client st...	1 day	15. 4. 9 8:00	15. 4. 9 5:00	49	
64		WBS 2.4.3 Implements Android LongClickListener in custom list .	1 day	15. 4. 9 8:00	15. 4. 9 5:00	49	
65		WBS 2.4.4 Implement a function for get the information of toda..	1 day	15. 4. 9 8:00	15. 4. 9 5:00	49	
66		WBS 2.5 Customer can use coupon and managed automatica...	1 day	15. 4. 21 8:00	15. 4. 21 5:00	48;52	

		Name	Duration	Start	Finish	Predecessor	
67		WBS 2.5.1 Implement coupon function	1 day	15. 4. 21 8:00	15. 4. 21 5:00		
68		WBS 2.5.2 Customer can do another job until coupon list showed	1 day	15. 4. 21 8:00	15. 4. 21 5:00		
69		WBS 2.5.3 Customer can use coupon	1 day	15. 4. 21 8:00	15. 4. 21 5:00		
70		WBS 3 Optimize & Test	41 days	15. 4. 14 8:00	15. 6. 9 5:00		
71		WBS 3.4 First prototype test	4 days	15. 4. 14 8:00	15. 4. 17 5:00	29	
72		WBS 3.4.1 Check UI design with customer	4 days	15. 4. 14 8:00	15. 4. 17 5:00		
73		WBS 3.5 Second prototype test	7 days	15. 5. 12 8:00	15. 5. 20 5:00	43;71	
74		WBS 3.5.1 Check all functional requirements are satisfied with ...	2 days	15. 5. 12 8:00	15. 5. 13 5:00		
75		WBS 3.5.2 Check algorithms with customer	7 days	15. 5. 12 8:00	15. 5. 20 5:00		
76		WBS 3.6 Beta test	14 days	15. 5. 21 8:00	15. 6. 9 5:00	73	
77		WBS 3.6.1 Test error handling	1 day	15. 5. 21 8:00	15. 5. 21 5:00		
78		WBS 3.6.2 Test application with bunch of data	1 day	15. 5. 21 8:00	15. 5. 21 5:00		
79		WBS 3.6.3 Test application in very slow network environment	1 day	15. 5. 21 8:00	15. 5. 21 5:00		
80		WBS 3.6.4 Improve the weak point of test results	1 day	15. 5. 22 8:00	15. 5. 22 5:00	77;78;79	
81		WBS 3.6.5 Do beta test	7 days	15. 5. 25 8:00	15. 6. 2 5:00	80	
82		WBS 3.6.6 Improve the weak point of test results	5 days	15. 6. 3 8:00	15. 6. 9 5:00	81	
83		Deployment	11 days	15. 6. 3 8:00	15. 6. 17 5:00	43;81	
84		Make an instruction manual	10 days	15. 6. 3 8:00	15. 6. 16 5:00		
85		Make a meeting with buyer	1 day	15. 6. 17 8:00	15. 6. 17 5:00	82;84	