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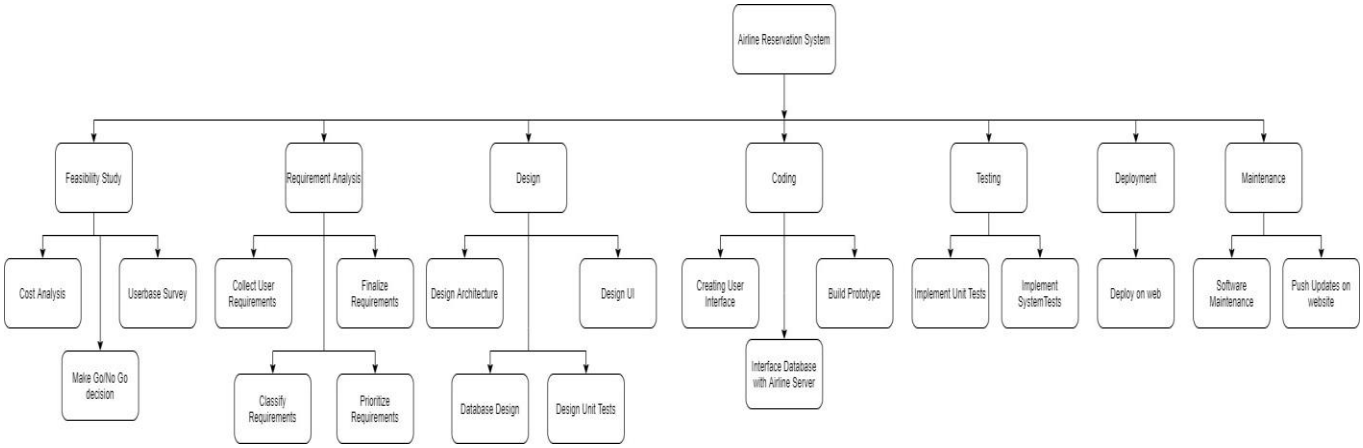
Batch: B

TE-IT

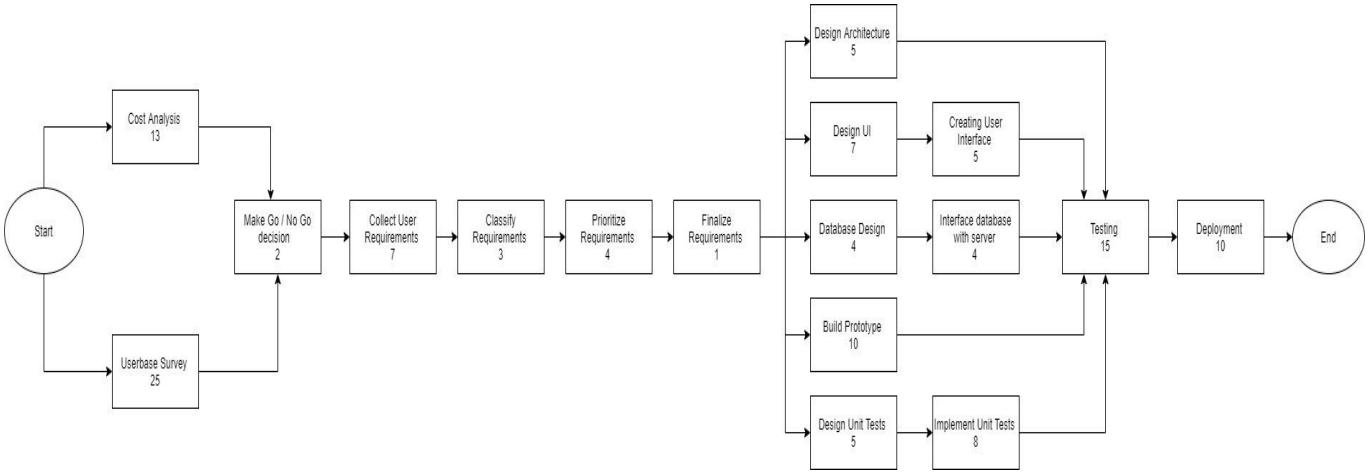
Airline Reservation System

Aim: Prepare WBS structure, Activity Network Diagram, Gantt chart. Also, find critical Path and slack time for the case study.

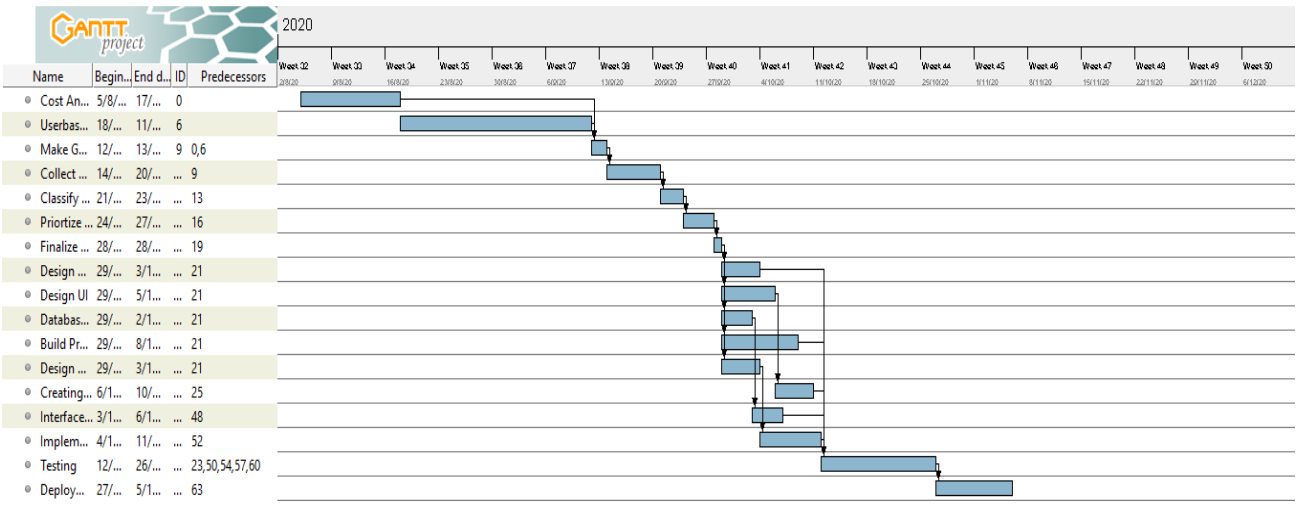
WBS:

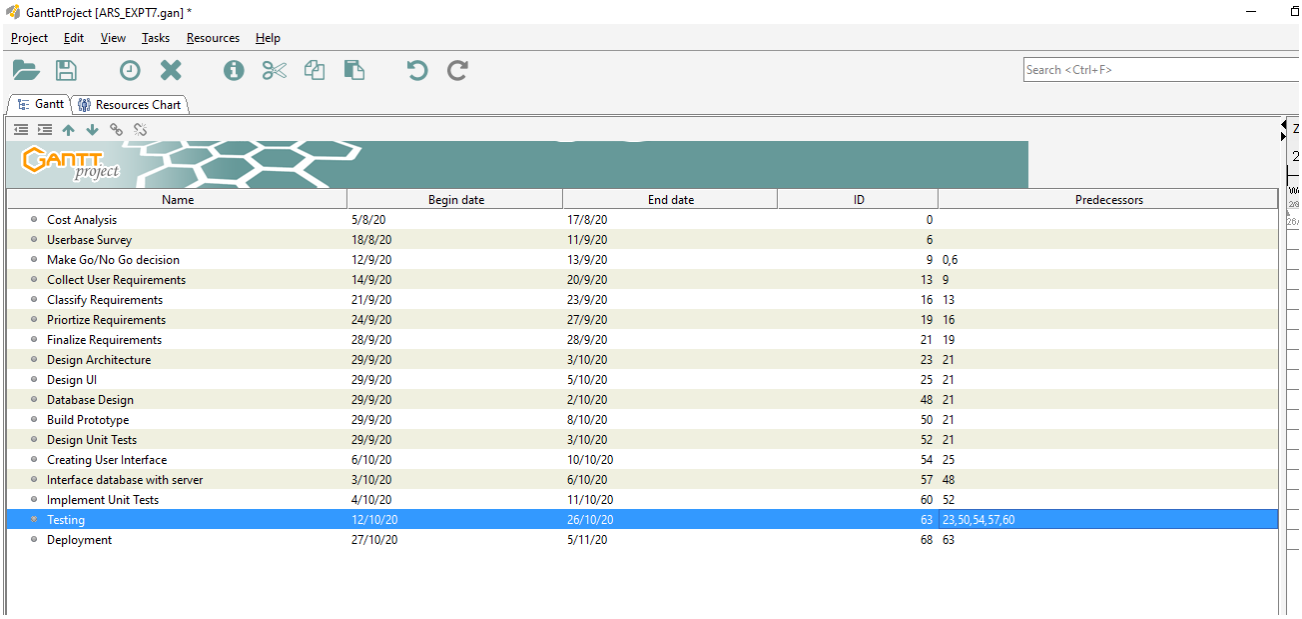


Activity Network Diagram:



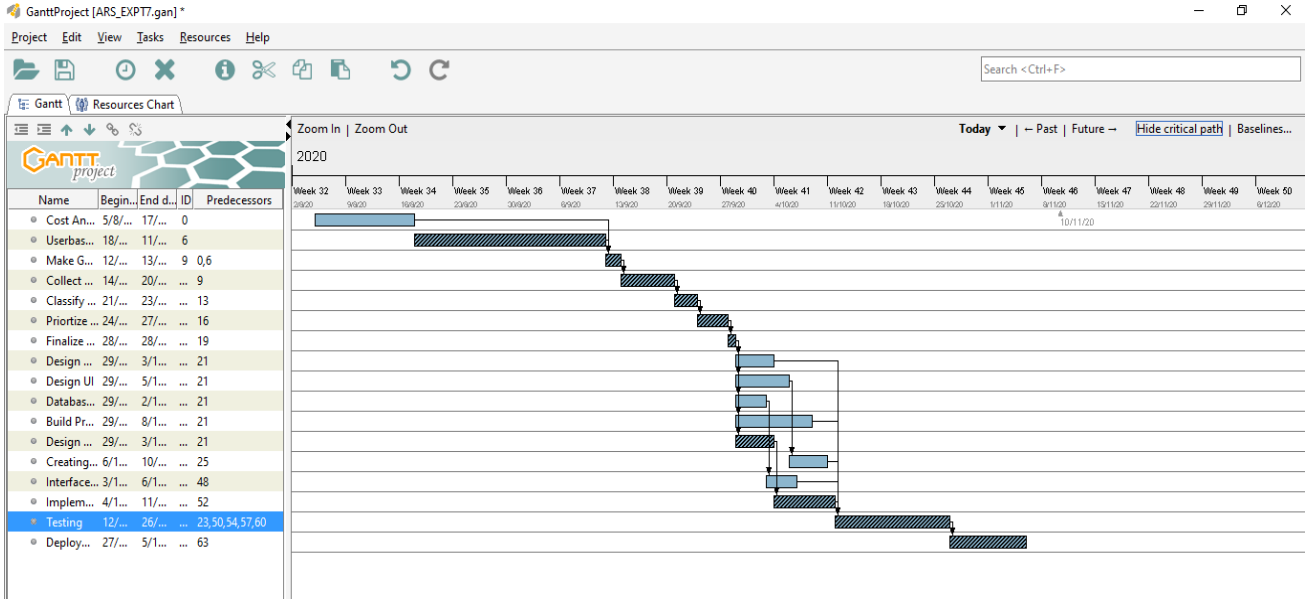
Gantt Chart:

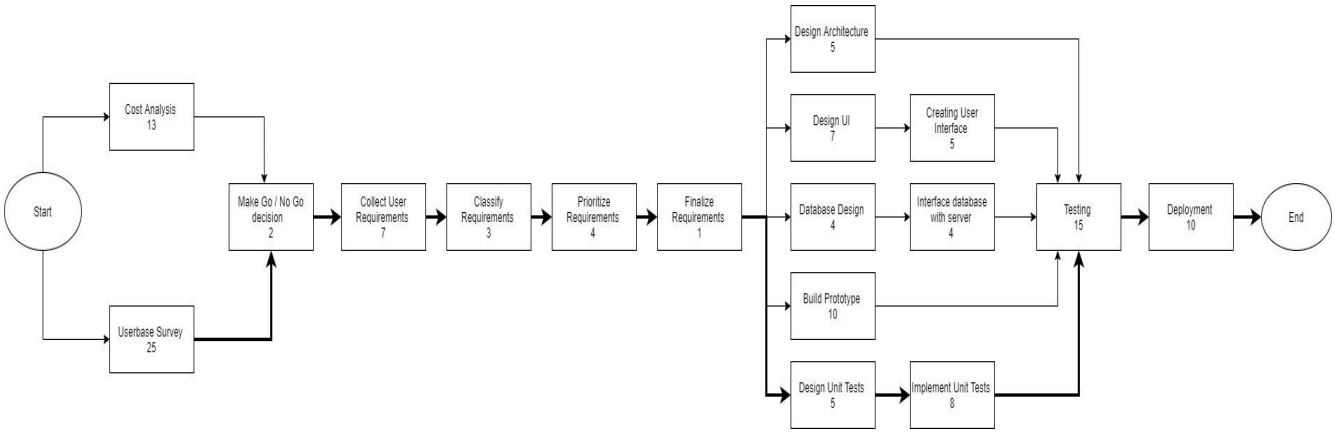




Name	Begin date	End date	ID	Predecessors
Cost Analysis	5/8/20	17/8/20	0	
Userbase Survey	18/8/20	11/9/20	6	
Make Go/No Go decision	12/9/20	13/9/20	9	0,6
Collect User Requirements	14/9/20	20/9/20	13	9
Classify Requirements	21/9/20	23/9/20	16	13
Priortize Requirements	24/9/20	27/9/20	19	16
Finalize Requirements	28/9/20	28/9/20	21	19
Design Architecture	29/9/20	3/10/20	23	21
Design UI	29/9/20	5/10/20	25	21
Database Design	29/9/20	2/10/20	48	21
Build Prototype	29/9/20	8/10/20	50	21
Design Unit Tests	29/9/20	3/10/20	52	21
Creating User Interface	6/10/20	10/10/20	54	25
Interface database with server	3/10/20	6/10/20	57	48
Implement Unit Tests	4/10/20	11/10/20	60	52
Testing	12/10/20	26/10/20	63	23,50,54,57,60
Deployment	27/10/20	5/11/20	68	63

Critical Path:





Slack:

ID	Task	Duration	Start	Finish	Predecessor	Critical	Slack
0	Cost Analysis	13	0	13	-		12
6	Userbase Survey	25	0	25	-	Critical	0
9	Make Go/No Go decision	2	25	27	0,6	Critical	0
13	Collect User Requirements	7	27	34	9	Critical	0
16	Classify Requirements	3	34	37	13	Critical	0
19	Prioritize Requirements	4	37	41	16	Critical	0

21	Finalize Requirements	1	41	42	19	Critical	0
23	Design Architecture	5	42	47	21		8
25	Design UI	7	42	49	21		1
48	Database Design	4	42	46	21		5
50	Build Prototype	10	42	52	21		3
52	Design Unit Tests	5	42	47	21	Critical	0
54	Creating User Interface	5	49	54	25		1
57	Interface database with server	4	46	50	48		5
60	Implement Unit Tests	8	47	55	52	Critical	0
63	Testing	15	55	70	23,50,54,57,60	Critical	0
68	Deployment	10	70	80	63	Critical	0

Conclusion:

Hence, we learnt the basis of project scheduling. We created WBS structure, used activity network diagram to create a Gantt chart and calculated the critical path and slack time.