




































































































































ID		Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names
1			Learn required technologies	20 hrs	Mon 1/14/19	Wed 1/23/19		
2			Learn Android development platform	20 hrs	Mon 1/14/19	Wed 1/23/19		Resource 1
3			Libraries	17.5 hrs	Mon 1/14/19	Tue 1/22/19		
4			Identify libraries to implement petri net	5 hrs	Mon 1/14/19	Tue 1/15/19		Resource 1
5			Learn Petri net java library	15 hrs	Mon 1/14/19	Tue 1/22/19	4	Resource 1
6			Learn TTS REST API	10 hrs	Mon 1/14/19	Thu 1/17/19		Resource 1
7			Design app interface	27 hrs	Mon 1/14/19	Mon 1/28/19		
8			Storyboard mobile interaction	4 hrs	Mon 1/14/19	Tue 1/15/19		Resource 1
9			Create Wireframe	6 hrs	Mon 1/14/19	Wed 1/16/19	8	Resource 1
10			Create Mock-ups	8 hrs	Mon 1/14/19	Mon 1/21/19	9	Resource 1
11			Confirm interface design with client	14 hrs	Mon 1/21/19	Mon 1/28/19	10	
12			Present mock-ups to client	2 hrs	Mon 1/21/19	Mon 1/21/19		Resource 1
13			Review client feedback	2 hrs	Tue 1/22/19	Tue 1/22/19	12	Resource 1
14			Adjust mock-ups based on client feedback	3 hrs	Tue 1/22/19	Wed 1/23/19	13	Resource 1
15			Second presentation to client	2 hrs	Thu 1/24/19	Thu 1/24/19	14	Resource 1
16			Review client feedback	2 hrs	Thu 1/24/19	Fri 1/25/19	15	Resource 1
17			Adjust mock-ups based on client feedback	3 hrs	Fri 1/25/19	Mon 1/28/19	16	Resource 1
18			Schedule project	13 hrs	Mon 1/14/19	Mon 1/21/19		
19			Identify milestones	2 hrs	Mon 1/14/19	Mon 1/14/19		Resource 1
20			Identify resources	2 hrs	Mon 1/14/19	Mon 1/14/19	19	Resource 1
21			Identify and estimate tasks for deliverables	8 hrs	Mon 1/14/19	Thu 1/17/19	20	Resource 1
22			Identify sequence and dependencies	5 hrs	Mon 1/14/19	Fri 1/18/19	21	Resource 1
23			Create WBS	5 hrs	Mon 1/14/19	Mon 1/21/19	22	Resource 1
24			Develop GLOSA application	188.5 hrs	Mon 1/14/19	Mon 5/20/19	18	
25			Create prototype app	92 hrs	Mon 1/14/19	Tue 3/5/19	7,18	
26			Develop android app	66 hrs	Mon 1/14/19	Tue 2/19/19	2	
27			Build app	66 hrs	Mon 1/14/19	Tue 2/19/19		
28			Configure app development environment	4 hrs	Mon 1/14/19	Tue 1/29/19		Resource 1
29			Build components	66 hrs	Mon 1/14/19	Tue 2/19/19	28	
30			Build views	49 hrs	Mon 1/14/19	Fri 2/8/19		

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names
31			Write codes for views	20 hrs	Mon 1/14/19	Thu 2/7/19		Resource 1
32			Write unit test	8 hrs	Mon 2/4/19	Thu 2/7/19	31FF	Resource 1
33			Perform unit testing	3 hrs	Thu 2/7/19	Fri 2/8/19	31FF	Resource 1
34			Perform code reviews	2 hrs	Thu 2/7/19	Fri 2/8/19	31FF	Resource 1
35			Build event handlers	51 hrs	Mon 1/14/19	Mon 2/11/19		
36			Write codes for handlers	20 hrs	Mon 1/14/19	Thu 2/7/19		Resource 1
37			Write handlers unit test	8 hrs	Mon 2/4/19	Thu 2/7/19	36FF	Resource 1
38			Perform unit testing	3 hrs	Thu 2/7/19	Fri 2/8/19	36FF	Resource 1
39			Perform code reviews	2 hrs	Fri 2/8/19	Mon 2/11/19	36FF	Resource 1
40			Build data models	66 hrs	Mon 1/14/19	Tue 2/19/19		
41			Write codes for data models	20 hrs	Mon 1/14/19	Tue 2/19/19		Resource 1
42			Write unit test	8 hrs	Wed 2/13/19	Tue 2/19/19	41FF	Resource 1
43			Perform unit testing	3 hrs	Mon 2/18/19	Tue 2/19/19	41FF	Resource 1
44			Perform code reviews	2 hrs	Mon 2/18/19	Tue 2/19/19	41FF	Resource 1
45			Implement petri net controller	28 hrs	Mon 1/28/19	Tue 2/12/19		
46			Design petri net structure and usage in app	8 hrs	Mon 1/28/19	Thu 1/31/19	5	Resource 1
47			Convert workflow diagram to petri net library format	8 hrs	Mon 1/28/19	Thu 1/31/19	5	Resource 1
48			Implement petri net with the chosen library	20 hrs	Fri 2/1/19	Tue 2/12/19	46,47	
49			Write code for petri net	20 hrs	Fri 2/1/19	Tue 2/12/19		Resource 1
50			Write unit test	8 hrs	Thu 2/7/19	Tue 2/12/19	49FF	Resource 1
51			Perform unit testing	3 hrs	Mon 2/11/19	Tue 2/12/19	49FF	Resource 1
52			Perform code reviews	2 hrs	Tue 2/12/19	Tue 2/12/19	49FF	Resource 1
53			Integrate petri net controller with android app	12 hrs	Tue 2/19/19	Tue 2/26/19	26,45	
54			Determine use cases to test	2 hrs	Tue 2/19/19	Wed 2/20/19		Resource 1
55			Determine mock data for use cases	2 hrs	Wed 2/20/19	Wed 2/20/19	54	Resource 1
56			Test use cases with mock data	2 hrs	Thu 2/21/19	Thu 2/21/19	55	Resource 1
57			Make adjustments based on test results	6 hrs	Thu 2/21/19	Tue 2/26/19	56	Resource 1
58			Confirm prototype suitability with client	14 hrs	Tue 2/26/19	Tue 3/5/19	53	
59			Present prototype to client	2 hrs	Tue 2/26/19	Tue 2/26/19		Resource 1
60			Review client feedback	2 hrs	Wed 2/27/19	Wed 2/27/19	59	Resource 1

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names	
61			Adjust prototype based on client feedback	3 hrs	Wed 2/27/19	Thu 2/28/19	60		
62			Make adjustments to app	3 hrs	Wed 2/27/19	Thu 2/28/19		Resource 1	
63			Make adjustments to petri net	3 hrs	Wed 2/27/19	Thu 2/28/19		Resource 1	
64			Second Presentation of prototype to client	2 hrs	Fri 3/1/19	Fri 3/1/19	61	Resource 1	
65			Review client feedback	2 hrs	Fri 3/1/19	Mon 3/4/19	64	Resource 1	
66			Adjust prototype based on client feedback	3 hrs	Mon 3/4/19	Tue 3/5/19	65		
67			Make adjustments to app	3 hrs	Mon 3/4/19	Tue 3/5/19		Resource 1	
68			Make adjustments to petri net	3 hrs	Mon 3/4/19	Tue 3/5/19		Resource 1	
69			Prototype app created and accepted by client	0 hrs	Tue 3/5/19	Tue 3/5/19	25		
70			Review design documentation	2 hrs	Tue 3/5/19	Wed 3/6/19	69	Resource 1	
71			Update design documentation	2 hrs	Tue 3/5/19	Wed 3/6/19	70FF	Resource 1	
72			Review schedule	2 hrs	Wed 3/6/19	Thu 3/7/19	71	Resource 1	
73			Integrate app with TTS data	188.5 hrs	Mon 1/14/19	Mon 5/20/19	72		
74			Build TTS library wrappers	133.5 hrs	Mon 1/14/19	Thu 4/4/19	6		
75			Build interfaces and abstractions	113.5 hrs	Mon 1/14/19	Mon 3/25/19			
76			Write codes	20 hrs	Mon 1/14/19	Mon 3/25/19		Resource 1	
77			Write unit test	8 hrs	Mon 1/14/19	Mon 3/25/19	76FF	Resource 1	
78			Perform unit testing	3 hrs	Mon 1/14/19	Mon 3/25/19	76FF	Resource 1	
79			Perform code reviews	2 hrs	Mon 1/14/19	Mon 1/14/19	76FF	Resource 1	
80			Build concrete classes	20 hrs	Mon 3/25/19	Thu 4/4/19	75		
81			Write codes	20 hrs	Mon 3/25/19	Thu 4/4/19		Resource 1	
82			Write unit test	8 hrs	Mon 4/1/19	Thu 4/4/19	81FF	Resource 1	
83			Perform unit testing	3 hrs	Wed 4/3/19	Thu 4/4/19	81FF	Resource 1	
84			Perform code reviews	2 hrs	Wed 4/3/19	Thu 4/4/19	81FF	Resource 1	
85			Integrate TTS library with petri net controller and android app	20 hrs	Thu 4/4/19	Tue 4/16/19	61,74		
86			Write codes	20 hrs	Thu 4/4/19	Tue 4/16/19		Resource 1	
87			Write unit test	8 hrs	Thu 4/11/19	Tue 4/16/19	86FF	Resource 1	
88			Perform unit testing	3 hrs	Mon 4/15/19	Tue 4/16/19	86FF	Resource 1	
89			Perform code reviews	2 hrs	Mon 4/15/19	Tue 4/16/19	86FF	Resource 1	

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names
90			Integration testing	10 hrs	Tue 4/16/19	Mon 5/6/19	85	
91			Setup testing configuration	2 hrs	Tue 4/16/19	Wed 4/17/19		Resource 1
92			Setup test data	2 hrs	Wed 4/17/19	Wed 4/17/19	91	Resource 1
93			Perform integration testing	6 hrs	Thu 4/18/19	Mon 5/6/19	92	Resource 1
94			Test app with live data	5 hrs	Mon 5/6/19	Wed 5/8/19	90	
95			Connect to TTS	1 hr	Mon 5/6/19	Mon 5/6/19		Resource 1
96			Test app with live data	4 hrs	Mon 5/6/19	Wed 5/8/19	95	Resource 1
97			Confirm operation of TTS-capable task with client	20 hrs	Wed 5/8/19	Mon 5/20/19	94	
98			Present to client	2 hrs	Wed 5/8/19	Thu 5/9/19		Resource 1
99			Review client feedback	2 hrs	Thu 5/9/19	Thu 5/9/19	98	Resource 1
100			Make adjustments based on client feedback	8 hrs	Fri 5/10/19	Wed 5/15/19	99	
101			Make adjustments to app	8 hrs	Fri 5/10/19	Wed 5/15/19		Resource 1
102			Make adjustments to petri net	8 hrs	Fri 5/10/19	Wed 5/15/19		Resource 1
103			Make adjustments to TTS library wrapper	8 hrs	Fri 5/10/19	Wed 5/15/19		Resource 1
104			Second Presentation to client	2 hrs	Wed 5/15/19	Wed 5/15/19	100	Resource 1
105			Review client feedback	2 hrs	Thu 5/16/19	Thu 5/16/19	104	Resource 1
106			Make adjustments based on client feedback	4 hrs	Thu 5/16/19	Mon 5/20/19	105	
107			Make adjustments to app	4 hrs	Thu 5/16/19	Mon 5/20/19		Resource 1
108			Make adjustments to petri net	4 hrs	Thu 5/16/19	Mon 5/20/19		Resource 1
109			Make adjustments to TTS library wrapper	4 hrs	Thu 5/16/19	Mon 5/20/19		Resource 1
110			App integrated with TTS data	0 days	Mon 5/20/19	Mon 5/20/19	73	
111			Review design documentation	2 hrs	Mon 1/21/19	Mon 1/21/19		Resource 1
112			Update design documentation	2 hrs	Mon 1/21/19	Mon 1/21/19	111FF	Resource 1
113			Review schedule	2 hrs	Tue 1/22/19	Tue 1/22/19	112	Resource 1
114			Integrate android app with advisory library	55 hrs	Tue 1/22/19	Thu 2/21/19	113	
115			Integrate app with advisory library	4 hrs	Tue 1/22/19	Thu 1/24/19		Resource 1
116			Integration testing	16.5 hrs	Thu 1/24/19	Fri 2/1/19	115	
117			Setup testing configuration	2 hrs	Thu 1/24/19	Fri 1/25/19		Resource 1
118			Setup test data	2 hrs	Fri 1/25/19	Fri 1/25/19	117	Resource 1
119			Perform integration testing	6 hrs	Mon 1/28/19	Fri 2/1/19	118	Resource 1

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names
120			Confirm app suitability with client	34.5 hrs	Mon 2/4/19	Thu 2/21/19	116	
121			Present app to client	2 hrs	Mon 2/4/19	Fri 2/8/19		Resource 1
122			Review client feedback	2 hrs	Fri 2/8/19	Mon 2/11/19	121	Resource 1
123			Adjust app based on client feedback	13 hrs	Mon 2/11/19	Mon 2/18/19	122	
124			Make adjustments to app	4 days	Mon 2/11/19	Mon 2/18/19		Resource 1
125			Make adjustments to petri net	4 hrs	Mon 2/11/19	Wed 2/13/19		Resource 1
126			Second presentation to client	2 hrs	Mon 2/18/19	Tue 2/19/19	123	Resource 1
127			Review client feedback	2 hrs	Tue 2/19/19	Wed 2/20/19	126	Resource 1
128			Adjust app based on client feedback	4 hrs	Wed 2/20/19	Thu 2/21/19	127	
129			Make adjustments to app	4 hrs	Wed 2/20/19	Thu 2/21/19		Resource 1
130			Make adjustments to petri net	4 hrs	Wed 2/20/19	Thu 2/21/19		Resource 1
131			Prototype created and accepted by client	0 hrs	Thu 2/21/19	Thu 2/21/19	114	
132			Review design documentation	2 hrs	Thu 2/21/19	Fri 2/22/19	131	Resource 1
133			Update design documentation	2 hrs	Thu 2/21/19	Fri 2/22/19	132FF	Resource 1
134			Review schedule	2 hrs	Fri 2/22/19	Mon 2/25/19	133	Resource 1
135			User acceptance testing	18 hrs	Mon 5/20/19	Wed 5/29/19	124	
136			Identify test users	1 hr	Mon 5/20/19	Mon 5/20/19	133	Resource 1
137			Install app on users devices	1 hr	Mon 5/20/19	Tue 5/21/19	136	Resource 1
138			Users test app	4 hrs	Tue 5/21/19	Wed 5/22/19	137	Resource 1
139			Obtain user feedback	2 hrs	Wed 5/22/19	Thu 5/23/19	138	Resource 1
140			Analyze feedback	2 hrs	Thu 5/23/19	Fri 5/24/19	139	Resource 1
141			Adjust app based on feed back	8 hrs	Fri 5/24/19	Wed 5/29/19	140	Resource 1
142			User acceptance testing completed	0 hrs	Wed 5/29/19	Wed 5/29/19	141	
143			Documentation	8 hrs	Wed 5/29/19	Mon 6/3/19	135	
144			Develop user guide	8 hrs	Wed 5/29/19	Mon 6/3/19		Resource 1
145			Review design documentation	2 hrs	Wed 5/29/19	Thu 5/30/19		Resource 1
146			Update design documentation	2 hrs	Wed 5/29/19	Thu 5/30/19	145FF	Resource 1
147			Handoff to next capstone team	15 hrs	Wed 5/29/19	Thu 6/6/19	135	
148			Introduce project to next capstone team	4 hrs	Wed 5/29/19	Fri 5/31/19		Resource 1
149			Introduce next capstone team to client	2 hrs	Fri 5/31/19	Fri 5/31/19	148	Resource 1

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names
150			Review documentation	2 hrs	Mon 6/3/19	Mon 6/3/19	149	Resource 1
151			Setup environment	3 hrs	Mon 6/3/19	Tue 6/4/19	150	Resource 1
152			Review code	4 hrs	Wed 6/5/19	Thu 6/6/19	151	Resource 1
153			Handoff complete	0 hrs	Thu 6/6/19	Thu 6/6/19	152	

Comment	
Android	
Petri net library, ORM	

Comment

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Milestone

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Milestone

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