

SAKAI SMS Service Project

ID	Task Name	Deliverable	Method of verification	Duration	Work	Start	Finish	Predecessor	Resource Names
1	SMS Project Phase I (Adjusted)			577 hrs?	1,705.52 hrs	Mon 08/11/17	Thu 09/03/12		
2	Project Startup			2.27 days?	56 hrs	Mon 08/11/17	Wed 08/11/19		LMB[70%],WK[80%],ES[95%],GM[70%]
3	Delivery 1: System Design (Database and API)	Database	Review	117.59 hrs?	149 hrs	Wed 08/11/19	Tue 08/12/09		
4	Database design and API			80 hrs	56 hrs	Wed 08/11/19	Wed 08/12/03		
5	Database design			5.71 days	32 hrs	Wed 08/11/19	Wed 08/11/26	2	LMB[70%]
6	JAVA API			4.29 days	24 hrs	Wed 08/11/26	Wed 08/12/03	5	LMB[70%]
7	Hibernate			109.33 hrs?	82 hrs	Wed 08/11/19	Mon 08/12/08		
8	TestCase coding			4 days	24 hrs	Wed 08/11/19	Tue 08/11/25	2	JW[75%]
9	Web service setup and testing			2.67 days?	16 hrs	Tue 08/11/25	Thu 08/11/27	8	JW[75%]
10	Created database definitions			2.67 days	16 hrs	Thu 08/11/27	Tue 08/12/02	9	JW[75%]
11	Hibernate configuration			2.67 days	16 hrs	Tue 08/12/02	Fri 08/12/05	10	JW[75%]
12	API tests			1.67 days?	10 hrs	Fri 08/12/05	Mon 08/12/08	11	JW[75%]
13	Other			32 hrs?	3 hrs	Wed 08/12/03	Tue 08/12/09		
14	Adjust API definition			0.18 days?	1 hr	Wed 08/12/03	Wed 08/12/03	6	LMB[70%]
15	Language catalogs			0.17 days?	1 hr	Mon 08/12/08	Tue 08/12/09	12	JW[75%]
16	Workspace and repos setup			0.17 days	1 hr	Tue 08/12/09	Tue 08/12/09	15	JW[75%]
17	Testing & QA			5.59 hrs	8 hrs	Tue 08/12/09	Tue 08/12/09		
18	Unit testing throughout			0.17 days	2 hrs	Tue 08/12/09	Tue 08/12/09	16,39	LMB[70%],JW[75%]
19	System testing			0.17 days	2 hrs	Tue 08/12/09	Tue 08/12/09	18	LMB[70%],JW[75%]
20	Quality assurance			0.17 days	2 hrs	Tue 08/12/09	Tue 08/12/09	19	LMB[70%],JW[75%]
21	User testing support			0.17 days	2 hrs	Tue 08/12/09	Tue 08/12/09	20	LMB[70%],JW[75%]
22	UCT REVIEW			4 days?	32 hrs	Tue 08/12/09	Mon 08/12/15	3	UCT_Review
23	Delivery 2: SMPP Service	Code,	Test with	105.22 hrs?	126 hrs	Wed 08/11/19	Mon 08/12/08		
24	SMPP			74.67 hrs?	99 hrs	Wed 08/11/19	Tue 08/12/02		
25	TestCase Coding with SMPPAPI			3.16 days	24 hrs	Wed 08/11/19	Mon 08/11/24	2	ES[95%]
26	Debug logger			0.53 days	4 hrs	Mon 08/11/24	Mon 08/11/24	25	ES[95%]
27	API coding			0.92 days	7 hrs	Mon 08/11/24	Tue 08/11/25	26	ES[95%]
28	Send of SMS to gateway emulator			1.33 days	8 hrs	Wed 08/11/19	Thu 08/11/20	2	GM[75%]
29	Receive delivery report			1.33 days	8 hrs	Thu 08/11/20	Fri 08/11/21	28	GM[75%]
30	Set up as Web Service for testing			1.05 days	8 hrs	Tue 08/11/25	Wed 08/11/26	27	ES[95%]
31	Integrate SMS Service API			3.33 days?	20 hrs	Fri 08/11/21	Thu 08/11/27	29	GM[75%]
32	Single thread stresstest			1 day	6 hrs	Thu 08/11/27	Fri 08/11/28	31	GM[75%]
33	Concurrent bind test			1 day	6 hrs	Fri 08/11/28	Mon 08/12/01	32	GM[75%]
34	Concurrency load test			1.33 days	8 hrs	Mon 08/12/01	Tue 08/12/02	33	GM[75%]
35	Other			59.96 hrs?	15 hrs	Wed 08/11/26	Mon 08/12/08		
36	Adjust API definition			0.17 days?	1 hr	Tue 08/12/02	Tue 08/12/02	34	GM[75%]
37	Language catalogs			0.13 days?	1 hr	Wed 08/11/26	Thu 08/11/27	30	ES[95%]
38	Workspace and repos setup			0.13 days	1 hr	Thu 08/11/27	Thu 08/11/27	37	ES[95%]

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ID	Task Name	Predecessors	Method of verification	Duration	Work	Start	Finish	Predecessors	Resource Names
39	Load balanced 2x server setup			2.14 days?	12 hrs	Thu 08/12/04	Mon 08/12/08	43	LMB[70%]
40	Testing & QA			12.08 hrs	12 hrs	Tue 08/12/02	Thu 08/12/04		
41	Unit testing throughout			0.52 days	6 hrs	Wed 08/12/03	Wed 08/12/03	38,14	ES[95%],LMB[70%]
42	System testing			0.16 days	2 hrs	Wed 08/12/03	Thu 08/12/04	41	ES[95%],LMB[70%]
43	Quality assurance			0.16 days	2 hrs	Thu 08/12/04	Thu 08/12/04	42	ES[95%],LMB[70%]
44	User testing support			0.33 days	2 hrs	Tue 08/12/02	Wed 08/12/03	36	GM[75%]
45	UCT REVIEW			4 days?	32 hrs	Mon 08/12/15	Tue 09/01/06	23,22	UCT_Review
46	Delivery 3: UI	Stand-	UI Revi	178.65 hrs?	186.5 hrs	Wed 08/11/19	Mon 09/01/05		
47	UI Design			178.65 hrs?	176 hrs	Wed 08/11/19	Mon 09/01/05		
48	RSF Setup			2.5 days	16 hrs	Wed 08/11/19	Fri 08/11/21	2	WK[80%]
49	SMS Test window			5 days	32 hrs	Fri 08/11/21	Fri 08/11/28	48	WK[80%]
50	Billing admin window			5 days?	32 hrs	Fri 08/11/28	Fri 08/12/12	49	WK[80%]
51	SMS tool configuration window			2.63 days	20 hrs	Thu 08/12/04	Mon 08/12/08	43	ES[95%]
52	SMS tool configuration window			16 hrs?	12 hrs	Wed 08/12/03	Fri 08/12/05	44	GM[75%]
53	Queue/log manager window			16 hrs?	12 hrs	Fri 08/12/05	Tue 08/12/09	52	GM[75%]
54	Queue/log manager window			2.63 days	20 hrs	Tue 08/12/09	Fri 08/12/12	21	ES[95%]
55	Tool Helper coding			4 days	32 hrs	Fri 08/12/12	Mon 09/01/05	54	UCT
56	Other			2.63 hrs?	2.5 hrs	Fri 08/12/12	Fri 08/12/12		
57	Adjust API definition			0.07 days?	0.5 hrs	Fri 08/12/12	Fri 08/12/12	54	ES[95%]
58	Language catalogs			0.13 days?	1 hr	Fri 08/12/12	Fri 08/12/12	57	ES[95%]
59	Workspace and repos setup			0.13 days	1 hr	Fri 08/12/12	Fri 08/12/12	58	ES[95%]
60	Testing & QA			5.52 hrs	8 hrs	Tue 08/12/09	Wed 08/12/10		
61	Unit testing throughout			0.17 days	2 hrs	Tue 08/12/09	Wed 08/12/10	53,21	LMB[70%],GM[75%]
62	System testing			0.17 days	2 hrs	Wed 08/12/10	Wed 08/12/10	61	LMB[70%],GM[75%]
63	Quality assurance			0.17 days	2 hrs	Wed 08/12/10	Wed 08/12/10	62	LMB[70%],GM[75%]
64	User testing support			0.17 days	2 hrs	Wed 08/12/10	Wed 08/12/10	63	LMB[70%],GM[75%]
65	UCT REVIEW			5.63 days?	45 hrs	Tue 09/01/06	Wed 09/01/14	64,45	UCT_Review
66	Delivery 4: SMS Service	Code,	Test Wi	118.67 hrs?	296.92 hrs	Mon 09/01/05	Mon 09/01/26	46	
67	SMS Service			118.67 hrs?	285 hrs	Mon 09/01/05	Mon 09/01/26		
68	Count billable messages			2 days?	12 hrs	Mon 09/01/12	Tue 09/01/13		GM[75%]
69	Check request completed			2 days?	12 hrs	Wed 09/01/14	Thu 09/01/15	68	GM[75%]
70	Process scheduled message			1.58 days?	12 hrs	Mon 09/01/05	Wed 09/01/07		ES[95%]
71	Read message queue			1.25 days?	8 hrs	Mon 09/01/05	Tue 09/01/06		WK[80%]
72	Process real-time message			2.11 days?	16 hrs	Wed 09/01/07	Fri 09/01/09	70	ES[95%]
73	Insert message into queue			1.05 days?	8 hrs	Fri 09/01/09	Mon 09/01/12	72	ES[95%]
74	Expand request into message log			2.67 days?	16 hrs	Fri 09/01/16	Tue 09/01/20	69	GM[75%]
75	Update message in queue			1.05 days?	8 hrs	Mon 09/01/12	Tue 09/01/13	73	ES[95%]
76	Group calculation (opt-in)			1.25 days	8 hrs	Tue 09/01/06	Thu 09/01/08	71	WK[80%]

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ID	Task Name	Predecessor	Method of verification	Duration	Work	Start	Finish	Predecessor	Resource Names
77	Coding of message queue functions			3.33 days	20 hrs	Mon 09/01/05	Thu 09/01/08		JW[75%]
78	Coding of message queue functions			3.13 days	20 hrs	Thu 09/01/08	Tue 09/01/13	76	WK[80%]
79	Coding of message queue functions			5.36 days	30 hrs	Mon 09/01/12	Mon 09/01/19		LMB[70%]
80	Web Service			1.25 days	8 hrs	Tue 09/01/13	Wed 09/01/14	78	WK[80%]
81	Validation methods for UI			2.67 days?	16 hrs	Thu 09/01/08	Tue 09/01/13	77	JW[75%]
82	Integrate services with UI			4.84 days?	31 hrs	Wed 09/01/14	Wed 09/01/21	80	WK[80%]
83	Read mobile number from LDAP			5.33 days	32 hrs	Tue 09/01/13	Tue 09/01/20	81	JW[75%]
84	Get Sakai group list			1.25 days?	10 hrs	Tue 09/01/20	Thu 09/01/22	83	UCT
85	Find entity producer			1.5 days?	12 hrs	Thu 09/01/22	Fri 09/01/23	84	UCT
86	Notify via Sakai email			0.75 days?	6 hrs	Fri 09/01/23	Mon 09/01/26	85	UCT
87	Other			5.71 hrs?	4 hrs	Mon 09/01/19	Tue 09/01/20		
88	Adjust API definition			0.18 days?	1 hr	Mon 09/01/19	Mon 09/01/19	79	LMB[70%]
89	Language catalogs			0.18 days?	1 hr	Mon 09/01/19	Mon 09/01/19	88	LMB[70%]
90	Workspace and repos setup			0.18 days	1 hr	Mon 09/01/19	Mon 09/01/19	89	LMB[70%]
91	Load balanced 2x server setup			0.18 days?	1 hr	Mon 09/01/19	Tue 09/01/20	90	LMB[70%]
92	Testing & QA			2.49 hrs	7.92 hrs	Wed 09/01/21	Wed 09/01/21		
93	Unit testing throughout			0.08 days	1.98 hrs	Wed 09/01/21	Wed 09/01/21	74,82,83,9	WK[80%],ES[95%],LMB[70%],GM[7
94	System testing			0.08 days	1.98 hrs	Wed 09/01/21	Wed 09/01/21	93	WK[80%],ES[95%],LMB[70%],GM[7
95	Quality assurance			0.08 days	1.98 hrs	Wed 09/01/21	Wed 09/01/21	94	WK[80%],ES[95%],LMB[70%],GM[7
96	User testing support			0.07 days	1.97 hrs	Wed 09/01/21	Wed 09/01/21	95	WK[80%],ES[95%],LMB[70%],GM[7
97	UCT REVIEW			5.63 days?	45 hrs	Mon 09/01/26	Tue 09/02/03	66,86	UCT_Review
98	Sakai Integration - UCT			243 hrs?	203 hrs	Mon 09/01/26	Mon 09/03/09		
99	Sakai Helper integration			3.25 days	26 hrs	Mon 09/01/26	Thu 09/01/29	86	UCT
100	Maintain profile/prefs			2.5 days	20 hrs	Thu 09/01/29	Tue 09/02/03	99	UCT
101	Entity broker integration			4.5 days	36 hrs	Tue 09/02/03	Mon 09/02/09	100	UCT
102	SO message integration			4 days?	32 hrs	Mon 09/02/09	Fri 09/02/13	101	UCT
103	Mobile number in profile			1 day?	8 hrs	Fri 09/02/13	Mon 09/02/23	102	UCT
104	SMS-enable Announcements			81 hrs?	81 hrs	Mon 09/02/23	Mon 09/03/09		
105	Implement SMS interface			1.5 days?	12 hrs	Mon 09/02/23	Wed 09/02/25	103	UCT
106	Create entity producer			2 days?	16 hrs	Wed 09/02/25	Fri 09/02/27	105	UCT
107	SMS command validation			0.75 days?	6 hrs	Fri 09/02/27	Fri 09/02/27	106	UCT
108	SMS command parsing			1.88 days?	15 hrs	Fri 09/02/27	Tue 09/03/03	107	UCT
109	Retrieve request information			1 day?	8 hrs	Tue 09/03/03	Wed 09/03/04	108	UCT
110	Construct return message			0.63 days?	5 hrs	Wed 09/03/04	Thu 09/03/05	109	UCT
111	Save to queue			0.38 days?	3 hrs	Thu 09/03/05	Thu 09/03/05	110	UCT
112	Helper integration			2 days?	16 hrs	Thu 09/03/05	Mon 09/03/09	111	UCT
113	Delivery 5: Scheduler	Code,	Run Te:	76.59 hrs?	95.13 hrs	Tue 09/01/13	Mon 09/01/26		
114	Job Scheduler service			76.59 hrs?	83 hrs	Tue 09/01/13	Mon 09/01/26		

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ID	Task Name	Predecessors	Method of verification	Duration	Work	Start	Finish	Predecessors	Resource Names
115	TestCase coding			3.16 days	24 hrs	Tue 09/01/13	Fri 09/01/16	75	ES[95%]
116	Scheduler logic			1.33 days	8 hrs	Wed 09/01/21	Thu 09/01/22	96	JW[75%]
117	Identify messages to process			1.67 days?	10 hrs	Wed 09/01/21	Fri 09/01/23	96	GM[75%]
118	Debug log			0.78 days?	5 hrs	Wed 09/01/21	Thu 09/01/22	96	WK[80%]
119	Integrate SMS API			1.67 days	10 hrs	Fri 09/01/23	Mon 09/01/26	117	GM[75%]
120	Integrate SMS API			0.66 days	5 hrs	Fri 09/01/16	Mon 09/01/19	115	ES[95%]
121	Integrate SMS API			0.78 days	5 hrs	Thu 09/01/22	Fri 09/01/23	118	WK[80%]
122	Web Service			1.05 days	8 hrs	Mon 09/01/19	Tue 09/01/20	120	ES[95%]
123	Concurrency tests			1.43 days	8 hrs	Wed 09/01/21	Fri 09/01/23	96	LMB[70%]
124	Other			12.86 hrs?	4 hrs	Wed 09/01/21	Fri 09/01/23		
125	Adjust API definition			0.13 days?	1 hr	Wed 09/01/21	Wed 09/01/21	96	ES[95%]
126	Language catalogs			0.13 days?	1 hr	Wed 09/01/21	Wed 09/01/21	125	ES[95%]
127	Workspace and repos setup			0.13 days	1 hr	Wed 09/01/21	Thu 09/01/22	126	ES[95%]
128	Load balanced 2x server setup			0.18 days?	1 hr	Fri 09/01/23	Fri 09/01/23	123	LMB[70%]
129	Testing & QA			3.55 hrs	8.13 hrs	Fri 09/01/23	Fri 09/01/23		
130	Unit testing throughout			0.11 days	2.13 hrs	Fri 09/01/23	Fri 09/01/23	125,128	JW[75%],LMB[70%],ES[95%]
131	System testing			0.11 days	2 hrs	Fri 09/01/23	Fri 09/01/23	130	JW[75%],LMB[70%],ES[95%]
132	Quality assurance			0.11 days	2 hrs	Fri 09/01/23	Fri 09/01/23	131	JW[75%],LMB[70%],ES[95%]
133	User testing support			0.11 days	2 hrs	Fri 09/01/23	Fri 09/01/23	132	JW[75%],LMB[70%],ES[95%]
134	UCT REVIEW			3 days?	24 hrs	Tue 09/02/03	Fri 09/02/06	97,113	UCT_Review
135	Delivery 6: Billing	Code,	Test Wi	114.03 hrs?	144 hrs	Mon 09/01/26	Mon 09/02/16	113	
136	Billing service			90 hrs?	132 hrs	Mon 09/01/26	Wed 09/02/11		
137	TestCase coding			3.75 days	24 hrs	Mon 09/01/26	Fri 09/01/30		WK[80%]
138	Settle credit difference			1.25 days?	8 hrs	Fri 09/01/30	Mon 09/02/02	137	WK[80%]
139	Calculate credits			1.25 days?	8 hrs	Mon 09/02/02	Wed 09/02/04	138	WK[80%]
140	Identify account			1.43 days?	8 hrs	Mon 09/01/26	Wed 09/01/28		LMB[70%]
141	Manage credits (CRUD)			2 days?	12 hrs	Mon 09/01/26	Wed 09/01/28		GM[75%]
142	Manage financial accounts (CRUD)			2 days?	12 hrs	Wed 09/01/28	Fri 09/01/30	141	GM[75%]
143	Sufficient credits check			0.67 days?	4 hrs	Fri 09/01/30	Mon 09/02/02	142	GM[75%]
144	Reserve credits			0.67 days?	4 hrs	Mon 09/02/02	Tue 09/02/03	143	GM[75%]
145	Cancel pending request			0.67 days?	4 hrs	Tue 09/02/03	Tue 09/02/03	144	GM[75%]
146	Web Service			1.25 days	8 hrs	Wed 09/02/04	Thu 09/02/05	139	WK[80%]
147	Concurrency testing			1.43 days	8 hrs	Wed 09/01/28	Thu 09/01/29	140	LMB[70%]
148	Functional testing			1.43 days	8 hrs	Thu 09/01/29	Mon 09/02/02	147	LMB[70%]
149	Integrate services with UI			3.75 days?	24 hrs	Thu 09/02/05	Wed 09/02/11	146	WK[80%]
150	Other			17.72 hrs?	4 hrs	Mon 09/02/02	Wed 09/02/04		
151	Adjust API definition			0.17 days?	1 hr	Tue 09/02/03	Wed 09/02/04	145	GM[75%]
152	Language catalogs			0.17 days?	1 hr	Wed 09/02/04	Wed 09/02/04	151	GM[75%]

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ID	Task Name	Predecessor	Method of verification	Duration	Work	Start	Finish	Predecessor	Resource Names
153	Workspace and repos setup			0.17 days	1 hr	Wed 09/02/04	Wed 09/02/04	152	GM[75%]
154	Load balanced 2x server setup			0.18 days?	1 hr	Mon 09/02/02	Mon 09/02/02	148	LMB[70%]
155	Testing & QA			3.55 hrs	8 hrs	Fri 09/02/13	Mon 09/02/16		
156	Unit testing throughout			0.11 days	2 hrs	Fri 09/02/13	Fri 09/02/13	149,168	WK[80%],LMB[70%],GM[75%]
157	System testing			0.11 days	2 hrs	Fri 09/02/13	Fri 09/02/13	156	WK[80%],LMB[70%],GM[75%]
158	Quality assurance			0.11 days	2 hrs	Fri 09/02/13	Mon 09/02/16	157	WK[80%],LMB[70%],GM[75%]
159	User testing support			0.11 days	2 hrs	Mon 09/02/16	Mon 09/02/16	158	WK[80%],LMB[70%],GM[75%]
160	UCT REVIEW			5.25 days?	42 hrs	Mon 09/02/23	Mon 09/03/02	135	UCT_Review
161	Delivery 7: Sakai	Code,	System	267.52 hrs?	228.97 hrs	Fri 09/01/23	Thu 09/03/12		
162	Sakai			267.52 hrs?	199 hrs	Fri 09/01/23	Thu 09/03/12		
163	Create SMS tool			2.11 days?	16 hrs	Fri 09/01/23	Tue 09/01/27	133	ES[95%]
164	Sakai SMS permissions			2.11 days	16 hrs	Tue 09/01/27	Thu 09/01/29	163	ES[95%]
165	Billing service integration			3.33 days	20 hrs	Wed 09/02/04	Mon 09/02/09	153	GM[75%]
166	Billing service integration			1.79 days	10 hrs	Mon 09/02/02	Wed 09/02/04	154	LMB[70%]
167	Billing service integration			1.32 days	10 hrs	Mon 09/02/16	Tue 09/02/17	159	ES[95%]
168	Queue admin integration			5.71 days	32 hrs	Fri 09/02/06	Fri 09/02/13	166,134	LMB[70%]
169	Job scheduler integration			3.16 days	24 hrs	Thu 09/01/29	Wed 09/02/04	164	ES[95%]
170	SMS Service integration			1.05 days?	8 hrs	Wed 09/02/04	Thu 09/02/05	169,97	ES[95%]
171	UCT REVIEW			3 days?	24 hrs	Mon 09/03/02	Thu 09/03/05	160,170	UCT_Review
172	Finalise Sakai Integration			4.88 days?	39 hrs	Thu 09/03/05	Thu 09/03/12	171	UCT
173	Other			13.19 hrs?	4 hrs	Mon 09/02/16	Tue 09/02/17		
174	Adjust API definition			0.18 days?	1 hr	Mon 09/02/16	Mon 09/02/16	159	LMB[70%]
175	Language catalogs			0.17 days?	1 hr	Tue 09/02/17	Tue 09/02/17	167	GM[75%]
176	Workspace and repos setup			0.17 days	1 hr	Tue 09/02/17	Tue 09/02/17	175	GM[75%]
177	Load balanced 2x server setup			0.18 days?	1 hr	Mon 09/02/16	Mon 09/02/16	174	LMB[70%]
178	Testing & QA			11.61 hrs	25.97 hrs	Tue 09/02/17	Thu 09/02/19		
179	Unit testing throughout			0.1 days	2 hrs	Tue 09/02/17	Tue 09/02/17	170,176,177	ES[95%],LMB[70%],GM[75%]
180	System testing			0.47 days	7.98 hrs	Tue 09/02/17	Wed 09/02/18	179	ES[95%],LMB[70%],GM[75%]
181	Quality assurance			0.47 days	7.98 hrs	Wed 09/02/18	Wed 09/02/18	180	ES[95%],LMB[70%],GM[75%]
182	User testing support			0.42 days	8 hrs	Wed 09/02/18	Thu 09/02/19	181	ES[95%],LMB[70%],GM[75%]
183	End of SMS project			0 hrs	0 hrs	Thu 09/03/12	Thu 09/03/12	1	