

ID	WBS	Task Name				
			T	W	T	F
1	1	Sample software development project				
2	1.1	Start project			7/17	
3	1.2	Initiation phase				
4	1.2.1	Develop project charter				
5	1.2.2	Project charter approved			7/17	
6	1.3	Planning phase				
7	1.3.1	Product activities				
8	1.3.1.1	Manage scope definition				
9	1.3.1.1.1	Create scope document				
10	1.3.1.1.2	Scope document approved			7/17	
11	1.3.1.2	Manage requirements gathering				
12	1.3.1.2.1	Prepare research instruments				
13	1.3.1.2.2	Interview users				
14	1.3.1.2.3	Interview SHs				
15	1.3.1.2.4	Interview SMEs				
16	1.3.1.2.5	Draft requirements document				
17	1.3.1.2.6	Review requirements document				
18	1.3.1.2.7	Revise requirements document				
19	1.3.1.2.8	Requirements document approved			7/17	
20	1.3.1.3	Manage development planning				
21	1.3.1.3.1	Create development plan				
22	1.3.1.3.2	Development plan approved			7/17	
23	1.3.1.4	Manage test planning				
24	1.3.1.4.1	Create test plan				
25	1.3.1.4.2	Test plan approved			7/17	
26	1.3.1.5	Manage deployment planning				
27	1.3.1.5.1	Create deployment plan				
28	1.3.1.5.2	Deployment plan approved			7/17	
29	1.3.1.6	Manage maintenance planning				
30	1.3.1.6.1	Create maintenance plan				
31	1.3.1.6.2	Maintenance plan approved			7/17	
32	1.3.1.7	Manage acceptance				
33	1.3.1.7.1	Create acceptance criteria				
34	1.3.1.7.2	Acceptance criteria approved			7/17	
35	1.3.2	Project activities				
36	1.3.2.1	Manage scope / cost / schedule planning				
37	1.3.2.1.1	Develop project plan				
38	1.3.2.1.1.1	Create task list				
39	1.3.2.1.1.2	Create estimates				
40	1.3.2.1.1.3	Create network diagram (PERT)				
41	1.3.2.1.1.4	Create work breakdown structure (WBS)				
42	1.3.2.1.1.5	Create schedule (GANTT)				
43	1.3.2.1.1.6	Create milestone plan				
44	1.3.2.1.1.7	Create organization plan				
45	1.3.2.1.1.8	Create resource assignments				
46	1.3.2.1.1.9	Create budget				
47	1.3.2.1.2	Project plan approved			7/17	
48	1.3.2.2	Manage communications planning				
49	1.3.2.2.1	Develop communications plan				

ID	WBS	Task Name				
			T	W	T	F
50	1.3.2.2.2	Communications plan approved			7/17	
51	1.3.2.3	Manage quality planning				
52	1.3.2.3.1	Develop quality plan				
53	1.3.2.3.2	Quality plan approved			7/17	
54	1.3.2.4	Manage risk planning				
55	1.3.2.4.1	Develop risk management plan				
56	1.3.2.4.2	Risk management plan approved			7/17	
57	1.3.2.5	Manage procurement planning				
58	1.3.2.5.1	Develop procurement plan				
59	1.3.2.5.2	Procurement plan approved			7/17	
60	1.3.2.6	Manage HR planning				
61	1.3.2.6.1	Develop HR plan				
62	1.3.2.6.2	HR plan approved			7/17	
63	1.3.2.7	Manage integration planning				
64	1.3.2.7.1	Coordinate plans				
65	1.4	Execution phase				
66	1.4.1	Product activities				
67	1.4.1.1	Manage design				
68	1.4.1.1.1	Develop use cases				
69	1.4.1.1.2	Create data architecture				
70	1.4.1.1.3	Create hardware architecture				
71	1.4.1.1.4	Perform impact analysis				
72	1.4.1.1.5	Develop migration strategy				
73	1.4.1.1.6	Design product				
74	1.4.1.1.6.1	Design UI				
75	1.4.1.1.6.2	Design objects				
76	1.4.1.1.6.3	Design workflow				
77	1.4.1.1.6.4	Design rules				
78	1.4.1.1.6.5	Design middle tier				
79	1.4.1.1.6.6	Design database				
80	1.4.1.1.6.7	Design connectivity with other systems				
81	1.4.1.1.6.8	Design permissions				
82	1.4.1.1.7	Product design approved			7/17	
83	1.4.1.1.8	Design tests				
84	1.4.1.1.8.1	Design manual tests				
85	1.4.1.1.8.1.1	Design UI tests				
86	1.4.1.1.8.1.2	Design object tests				
87	1.4.1.1.8.1.3	Design workflow tests				
88	1.4.1.1.8.1.4	Design rules tests				
89	1.4.1.1.8.1.5	Design middle tier tests				
90	1.4.1.1.8.1.6	Design database tests				
91	1.4.1.1.8.1.7	Design connectivity tests				
92	1.4.1.1.8.1.8	Design permissions tests				
93	1.4.1.1.8.2	Design automated tests				
94	1.4.1.1.8.2.1	Design automated tests for functionality				
95	1.4.1.1.8.2.2	Design automated tests for performance				
96	1.4.1.1.8.3	Design beta test				
97	1.4.1.1.8.4	Design user acceptance test				
98	1.4.1.1.9	Test design approved			7/17	

ID	WBS	Task Name				
			T	W	T	F
99	1.4.1.1.10	Create design documentation				
100	1.4.1.2	Manage development				
101	1.4.1.2.1	Market to management				
102	1.4.1.2.2	Build prototype				
103	1.4.1.2.3	Demo prototype				
104	1.4.1.2.4	Coordinate with IT				
105	1.4.1.2.5	Develop training				
106	1.4.1.2.6	Develop user documentation				
107	1.4.1.2.7	Develop publicity				
108	1.4.1.2.8	Develop product				
109	1.4.1.2.8.1	Develop UI				
110	1.4.1.2.8.2	Develop objects				
111	1.4.1.2.8.3	Develop workflow				
112	1.4.1.2.8.4	Develop rules				
113	1.4.1.2.8.5	Develop middle tier				
114	1.4.1.2.8.6	Develop database				
115	1.4.1.2.8.7	Develop connections with other systems				
116	1.4.1.2.8.8	Develop permissions				
117	1.4.1.2.8.9	Develop migration scripts				
118	1.4.1.2.8.10	Create system documentation				
119	1.4.1.2.9	Product development complete				7/17
120	1.4.1.2.10	Develop tests				
121	1.4.1.2.10.1	Develop unit tests				
122	1.4.1.2.10.2	Develop system tests				
123	1.4.1.2.10.3	Develop integration tests				
124	1.4.1.2.10.4	Develop environment tests				
125	1.4.1.2.10.5	Develop migration tests				
126	1.4.1.2.10.6	Create test documentation				
127	1.4.1.2.11	Test development complete				7/17
128	1.4.1.2.12	Create build				
129	1.4.1.2.13	Build approved for testing				7/17
130	1.4.1.2.14	QA environment approved for testing				7/17
131	1.4.1.2.15	Execute tests				
132	1.4.1.2.15.1	Execute manual tests				
133	1.4.1.2.15.2	Execute automated tests				
134	1.4.1.2.15.3	Execute beta test				
135	1.4.1.2.15.4	Execute user acceptance test				
136	1.4.1.2.16	Analyze test results				
137	1.4.1.2.17	Compile test statistics				
138	1.4.1.2.18	Build approved by QA				7/17
139	1.4.1.2.19	Version finalized				7/17
140	1.4.1.2.20	Version approved for deployment				7/17
141	1.4.1.3	Manage deployment				
142	1.4.1.3.1	Schedule release				7/17
143	1.4.1.3.2	Schedule training				
144	1.4.1.3.2.1	Schedule user training				
145	1.4.1.3.2.2	Schedule Help Desk / TSA training				
146	1.4.1.3.3	Notify Change Control				
147	1.4.1.3.4	Rollout				

ID	WBS	Task Name				
			T	W	T	F
148	1.4.1.3.4.1	Back up databases				
149	1.4.1.3.4.2	Migrate data				
150	1.4.1.3.4.3	Install software on Web server				
151	1.4.1.3.4.4	Install software on desktop				
152	1.4.1.3.4.5	Conduct verification tests				
153	1.4.1.3.4.6	Confirm successful rollout				7/17
154	1.4.1.3.5	Announce launch				
155	1.4.1.3.6	Publish press release				
156	1.4.1.3.7	Write article for newsletter				
157	1.4.1.3.8	Attend party				
158	1.4.2	Project activities				
159	1.4.2.1	Manage scope / cost / schedule				
160	1.4.2.1.1	Monitor product changes				
161	1.4.2.1.2	Monitor project changes				
162	1.4.2.1.3	Renegotiate scope / cost / schedule commitments				
163	1.4.2.2	Manage communications				
164	1.4.2.2.1	Implement communications methods and strategies				
165	1.4.2.2.1.1	Select tools				
166	1.4.2.2.1.2	Specify protocols				
167	1.4.2.2.2	Distribute information				
168	1.4.2.2.2.1	Attend status meetings				
169	1.4.2.2.2.1.1	Attend core management meeting				
170	1.4.2.2.2.1.2	Attend core team meeting				
171	1.4.2.2.2.1.3	Attend FM / SH / SME meeting				
172	1.4.2.2.2.2	Create status reports				
173	1.4.2.2.2.3	Document project procedures				
174	1.4.2.2.3	Resolve communications problems				
175	1.4.2.3	Manage quality				
176	1.4.2.3.1	Manage quality assurance				
177	1.4.2.3.1.1	Establish product standards and procedures				
178	1.4.2.3.1.1.1	Define quality criteria				
179	1.4.2.3.1.1.2	Define quality assessment methods				
180	1.4.2.3.1.2	Establish project standards and procedures				
181	1.4.2.3.1.2.1	Establish requirements standards and procedures				
182	1.4.2.3.1.2.2	Establish change management standards and procedures				
183	1.4.2.3.1.2.3	Establish documentation standards and procedures				
184	1.4.2.3.1.2.4	Establish configuration management standards and proce				
185	1.4.2.3.1.2.5	Establish source code control standards and procedures				
186	1.4.2.3.1.2.6	Establish version control standards and procedures				
187	1.4.2.3.1.2.7	Establish peer review standards and procedures				
188	1.4.2.3.1.2.8	Establish coding standards and procedures				
189	1.4.2.3.1.2.9	Establish code commentary standards and procedures				
190	1.4.2.3.1.2.10	Establish build standards and procedures				
191	1.4.2.3.1.2.11	Establish release standards and procedures				
192	1.4.2.3.1.3	Design technical infrastructure				
193	1.4.2.3.1.3.1	Build requirements repository				
194	1.4.2.3.1.3.1.1	Create requirements templates				
195	1.4.2.3.1.3.1.2	Implement requirements database				
196	1.4.2.3.1.3.2	Build change management repository				

ID	WBS	Task Name				
			T	W	T	F
197	1.4.2.3.1.3.2.1	Create change management templates				
198	1.4.2.3.1.3.2.2	Implement change management database				
199	1.4.2.3.1.3.3	Build documentation repository				
200	1.4.2.3.1.3.3.1	Create documentation templates				
201	1.4.2.3.1.3.3.2	Implement documentation database				
202	1.4.2.3.1.3.4	Implement configuration management database				
203	1.4.2.3.1.3.5	Implement source code database				
204	1.4.2.3.1.3.6	Implement version control database				
205	1.4.2.3.1.4	Configure project environment				
206	1.4.2.3.1.4.1	Configure development environment				
207	1.4.2.3.1.4.2	Configure test environment				
208	1.4.2.3.1.4.2.1	Configure unit testing environment				
209	1.4.2.3.1.4.2.2	Configure system testing environment				
210	1.4.2.3.1.4.2.3	Configure integration testing environment				
211	1.4.2.3.1.4.2.4	Configure automated testing environment				
212	1.4.2.3.1.4.2.5	Configure performance testing environment				
213	1.4.2.3.1.4.2.6	Configure international testing environment				
214	1.4.2.3.1.4.2.7	Configure beta testing environment				
215	1.4.2.3.1.4.2.8	Configure user acceptance testing environment				
216	1.4.2.3.1.4.3	Configure staging environment				
217	1.4.2.3.1.4.4	Configure production environment				
218	1.4.2.3.1.5	Select tools				
219	1.4.2.3.1.5.1	Select development tools				
220	1.4.2.3.1.5.2	Select testing tools				
221	1.4.2.3.2	Manage quality control				
222	1.4.2.3.2.1	Monitor product quality				
223	1.4.2.3.2.1.1	Analyze defects reported				
224	1.4.2.3.2.1.2	Analyze change requests submitted				
225	1.4.2.3.2.1.3	Analyze tests failed				
226	1.4.2.3.2.1.4	Analyze requirements revised				
227	1.4.2.3.2.1.5	Conduct SME focus groups				
228	1.4.2.3.2.2	Monitor project quality				
229	1.4.2.3.2.2.1	Perform audits				
230	1.4.2.3.2.2.1.1	Audit requirements repository				
231	1.4.2.3.2.2.1.2	Audit change management repository				
232	1.4.2.3.2.2.1.3	Audit documentation repository				
233	1.4.2.3.2.2.1.4	Audit configuration management database				
234	1.4.2.3.2.2.1.5	Audit source code database				
235	1.4.2.3.2.2.1.6	Audit version control database				
236	1.4.2.3.2.2.1.7	Audit peer review practices				
237	1.4.2.3.2.2.1.8	Audit coding practices				
238	1.4.2.3.2.2.1.9	Audit code commentary practices				
239	1.4.2.3.2.2.1.10	Audit build practices				
240	1.4.2.3.2.2.1.11	Audit release practices				
241	1.4.2.3.2.2.1.12	Audit project environment				
242	1.4.2.3.2.2.2	Perform maintenance				
243	1.4.2.3.2.2.2.1	Maintain requirements repository				
244	1.4.2.3.2.2.2.2	Maintain change management repository				
245	1.4.2.3.2.2.2.3	Maintain documentation repository				

ID	WBS	Task Name				
			T	W	T	F
246	1.4.2.3.2.2.2.4	Maintain configuration management database				
247	1.4.2.3.2.2.2.5	Maintain source code database				
248	1.4.2.3.2.2.2.6	Maintain version control database				
249	1.4.2.3.2.2.2.7	Maintain project environment				
250	1.4.2.3.2.2.2.8	Maintain tools				
251	1.4.2.3.2.2.3	Implement process improvements				
252	1.4.2.4	Manage risk				
253	1.4.2.4.1	Monitor risks				
254	1.4.2.4.3	Specify responses				
255	1.4.2.5	Manage procurement				
256	1.4.2.5.1	Identify procurement requirements				
257	1.4.2.5.1.1	Perform make-or-buy analysis				
258	1.4.2.5.1.2	Determine localized intl specifications				
259	1.4.2.5.2	Prepare RFPs				
260	1.4.2.5.3	Review proposals				
261	1.4.2.5.3.1	Evaluate bids				
262	1.4.2.5.3.2	Evaluate vendors				
263	1.4.2.5.4	Sign contracts				
264	1.4.2.5.5	All contracts signed				7/17
265	1.4.2.5.6	Procure materials				
266	1.4.2.6	Manage HR				
267	1.4.2.6.1	Form project team				
268	1.4.2.6.1.1	Identify project HR requirements				
269	1.4.2.6.1.2	Select staff members				
270	1.4.2.6.1.3	Recruit consultants				
271	1.4.2.6.1.4	Hire new staff				
272	1.4.2.6.1.5	Project team formed				7/17
273	1.4.2.6.2	Train project team				
274	1.4.2.6.2.1	Develop project training materials				
275	1.4.2.6.2.2	Attend business orientation				
276	1.4.2.6.2.3	Attend technical orientation				
277	1.4.2.6.2.4	Attend internal class				
278	1.4.2.6.2.5	Attend external class				
279	1.4.2.6.4	Adapt team				
280	1.4.2.6.4.1	Attend team-building activity				
281	1.4.2.6.4.3	Support remote/virtual/telecommuting work				
282	1.4.2.6.4.2	Reallocate roles and responsibilities				
283	1.4.2.7	Manage integration				
284	1.4.2.7.1	Update project plan				
285	1.4.2.7.2	Update communications plan				
286	1.4.2.7.3	Update quality plan				
287	1.4.2.7.4	Update risk management plan				
288	1.4.2.7.5	Update procurement plan				
289	1.4.2.7.6	Update HR plan				
290	1.5	Closing phase				
291	1.5.1	Product activities				
292	1.5.1.1	Manage maintenance				
293	1.5.1.1.1	Perform impact analysis				
294	1.5.1.1.2	Monitor user acceptance				

ID	WBS	Task Name				
			T	W	T	F
295	1.5.1.1.3	Monitor performance				
296	1.5.1.1.4	Monitor defects				
297	1.5.1.1.5	Resolve training and support issues				
298	1.5.1.1.6	Resolve technical problems				
299	1.5.1.1.7	Establish maintenance procedures				
300	1.5.1.1.8	Analyze statistics				
301	1.5.1.1.9	Gather requirements for enhancements				
302	1.5.1.2	Manage acceptance				
303	1.5.1.2.1	Demo product to SHs, SMEs and FMs				
304	1.5.1.2.2	Obtain confirmation of acceptance criteria				
305	1.5.1.2.3	Acceptance confirmed				7/17
306	1.5.2	Project activities				
307	1.5.2.1	Manage scope / cost / schedule closure				
308	1.5.2.1.1	Create final version of project plan				
309	1.5.2.2	Manage communications closure				
310	1.5.2.2.5	Send thank-you messages				
311	1.5.2.2.1	Complete documentation				
312	1.5.2.2.3	Attend Lessons Learned meeting				
313	1.5.2.2.4	Create final status reports				
314	1.5.2.3	Manage quality closure				
315	1.5.2.3.1	Evaluate product quality				
316	1.5.2.3.1.1	Analyze change requests submitted				
317	1.5.2.3.1.2	Analyze customer complaints received				
318	1.5.2.3.1.3	Analyze tech support calls received				
319	1.5.2.3.1.4	Analyze processing errors				
320	1.5.2.3.1.5	Analyze data errors				
321	1.5.2.3.1.6	Conduct user focus groups				
322	1.5.2.3.1.7	Create product quality assessment				
323	1.5.2.3.2	Evaluate project quality				
324	1.5.2.3.2.1	Analyze estimates vs. actuals				
325	1.5.2.3.2.2	Analyze plans vs. realities				
326	1.5.2.3.2.3	Analyze compliance with standards and procedures				
327	1.5.2.3.2.4	Analyze process effectiveness				
328	1.5.2.3.2.5	Create project quality assessment				
329	1.5.2.4	Manage risk closure				
330	1.5.2.4.1	Identify future risks				
331	1.5.2.4.2	Specify risk responses				
332	1.5.2.5	Manage procurement closure				
333	1.5.2.5.1	Close out contracts				
334	1.5.2.5.2	All contracts closed out				7/17
335	1.5.2.6	Manage HR closure				
336	1.5.2.6.2	Provide PE feedback to team members				
337	1.5.2.6.3	Provide PE feedback to team members' managers				
338	1.5.2.6.4	Provide PE feedback to vendors and consultants				
339	1.5.2.6.5	Project team disbanded				7/17
340	1.5.2.7	Manage integration closure				
341	1.5.2.7.1	Consolidate and index documentation				
342	1.5.2.7.2	Create summary statistics for historical reference				
343	1.6	End project				7/17