									ı	tera	tior	1						
ID	WBS	Task Name	1	2 3	4	5 6	7	8				12	13	14	15	16	17	18
1		Project																
2	1.1	Pre-Project																
3	1.1.1	Research																
4	1.1.1.1	Mobile Development																
5	1.1.1.2	Implementation																
6	1.1.1.3	RESTful Web Services																
7	1.1.2	Project Setup																
8	1.1.2.1	Software																
9	1.1.2.2	Web Server for Web Servi	ces															
10	1.1.2.3	Database																
11	1.1.2.4	Obtain Licenses																
12	1.1.3	Brainstorm Ideas																
13	1.1.3.1	Choose App Idea																
14	1.1.3.2	App Research																
15	1.1.3.3	Marketplace Need																
16	1.2	Inception																
17	1.2.1	Vision And Scope Document																
18	1.2.2	System Scope																
19	1.2.3	Risks																
20	1.2.4	Work Breakdown Structure																
75	1.2.5	Setup Website Documentation	n															
76	1.2.6	Test Plan																
77	1.2.7	User Expereince Guide																
78	1.2.8	User Manuals																
79	1.2.9	Developer Guide																
21	1.3	Design																
22	1.3.1	Overall System																
23	1.3.2	Database																
24	1.3.2.1	ERD																
25	1.3.2.2	Structure																
26	1.3.2.3	Tables																
27	1.3.3	Web Services																
28	1.3.3.1	Structure																
29	1.3.3.2	Diagram																
30	1.3.4	Phone Development						_										
31	1.3.4.1	Class Diagram																
32	1.3.4.2	Design Pattern																
33	1.4	Development																
34	1.4.1	Database	_															
35	1.4.1.1	Create Tables	_															
36	1.4.1.2	Implement SQL																
37	1.4.2	Web Services																
38	1.4.2.1	Implement																
39	1.4.3	Administrator Website																
40	1.4.3.1	Classes																
41	1.4.3.2	Code-Behind																
42	1.4.3.3	User Interface																

43	1.4.4	Phone Application	
44	1.4.4.1	Binding Code	
45	1.4.4.2	User Interface and Hooku	n
	1.4.4.2.1	Windows Phone	
	1.4.4.2.2	Android	
	1.4.4.2.3	iOS	
93	1.4.5	PCL	
94	1.4.5.1	Classes	
95	1.4.5.2	View Models	
96	1.4.5.3	Async for Web Services	
49	1.5	Testing	
80	1.5.1	Integration Testing	
81	1.5.1.1	Web Service To Database	
82	1.5.1.2	Admin CMS to Web Service	es
83	1.5.1.3	Web Services to Web Drive	
84	1.5.1.4	PCL to Web Services	
85	1.5.1.5	Windows Phone to PCL	
86	1.5.1.6	Android Phone to PCL	
87	1.5.2	Performance Testing	
88	1.5.2.1	Database Connections	
89	1.5.2.2	Recursive Database Calls	
90	1.5.2.3	Web Service Response Tin	ne
91	1.5.2.4	Web Service JSON File Size	
92	1.5.2.5	PCL Async Response Time	
50	1.5.3	Database	
51	1.5.3.1	Data Stored Correctly	
52	1.5.3.2	Data Integrety	
54	1.5.4	Web Services	
55	1.5.4.1	Set Up Correctly	
56	1.5.4.2	Expected Logic	
58	1.5.5	Administrator Website	
60	1.5.5.1	Validate Data Input	
62	1.5.6	Phones	
63	1.5.6.1	Back-End Logic Correct	
65	1.5.6.2	Handle Data Effectively	
67	1.5.6.3	Effective UI / Self Intuitive	
68	1.5.6.4	Data Validation	
69	1.6	Release	
70	1.6.1	Effective Deployement	
71	1.6.2	Deployed Successfully to Sto	res
72	1.7	Maintainence	
73	1.7.1	Bug Fixes	
74	1.7.2	Feature Updates	