

List of Figures

Figure: 2.1	Iterative Waterfall Model.....	9
Figure: 3.1	Usecase Diagram.....	25
Figure: 3.2	Class Diagram.....	26
Figure: 3.3	Sequence Diagram for Start Workout.....	27
Figure: 3.4	Sequence Diagram for Connect BLE Device.....	28
Figure: 3.5	Sequence Diagram for Save Workout Goal.....	29
Figure: 3.6	Sequence Diagram for Add New Reminder.....	30
Figure: 3.7	State Chart Diagram for Peripheral Object.....	31
Figure: 3.8	State Chart Diagram for Reminder Object.....	32
Figure: 3.9	State Chart Diagram for Workout Object.....	33
Figure: 3.10	Activity Diagram for Start Workout.....	34
Figure: 4.1	Entity Relationship Diagram.....	36
Figure: 4.2	Dashboard Wireframe.....	39
Figure: 4.3	User Profile Wireframe.....	39
Figure: 4.4	Workout Goal Wireframe.....	40
Figure: 4.5	Connection Manager Wireframe.....	40
Figure: 4.6	HR Monitor Wireframe.....	41
Figure: 5.1	Xcode 5 Screenshot.....	44
Figure: 5.2	IOS Structure.....	45
Figure: 6.1	Testing plan.....	53
Figure: 7.1.1	App Icon Screenshot.....	65
Figure: 7.1.2	Launch Screen Screenshot.....	66
Figure: 7.2.1	First Screen Screenshot.....	66
Figure: 7.2.2	Sample Filled Profile Screenshot.....	67
Figure: 7.2.3	Incomplete Profile Screenshot.....	67
Figure: 7.2.4	Validations Screenshot.....	68

Figure: 7.2.5	DOB Picker Screenshot.....	68
Figure: 7.2.6	Menu Button Screenshot.....	69
Figure: 7.2.7	Menu Screenshot	69
Figure: 7.3.1	Navigate To Connection Manager Screenshot.....	70
Figure: 7.3.2	Connection Manager Screenshot.....	70
Figure: 7.3.3	Scanning Screenshot.....	71
Figure: 7.3.4	Connect to Peripheral Screenshot.....	71
Figure: 7.3.5	Disconnect Peripheral Screenshot.....	72
Figure: 7.3.6	Successful Connection Screenshot.....	72
Figure: 7.4.1	Location Services Access grant Screenshot.....	73
Figure: 7.4.2	Turn On Location Services Screenshot.....	73
Figure: 7.4.3	Access Permission for Stay Fit Screenshot.....	74
Figure: 7.5.1.1	Dashboard Screen Screenshot.....	75
Figure: 7.5.1.2	Workout Path Screenshot.....	75
Figure: 7.5.1.3	Map Type Screenshot.....	76
Figure: 7.5.1.4	Hybrid Map Screenshot.....	76
Figure: 7.5.1.5	Menu During Workout Screenshot.....	77
Figure: 7.5.2.1	Navigation to Today's Report Screenshot.....	77
Figure: 7.5.2.2	Today's Workout Reports Screenshot.....	78
Figure: 7.5.2.3	Workout Details Screenshot.....	78
Figure: 7.5.2.4	Delete Report Screenshot.....	79
Figure: 7.5.2.5	Workout Report Navigation Screenshot.....	79
Figure: 7.5.2.6	Workout Reports Screenshot.....	80
Figure: 7.5.2.7	Pick a Date for Workout Reports Screenshot.....	80
Figure: 7.5.2.8	Navigation to Statistics Screenshot.....	81
Figure: 7.5.2.9	Statistics Screenshot.....	81
Figure: 7.6.1	Navigation to Workout Goal Screenshot.....	82
Figure: 7.6.2	Workout Goal Screenshot.....	82
Figure: 7.6.3	Workout Goal Validation Screenshot.....	83
Figure: 7.6.4	Setting Sample Workout Goal Screenshot.....	83
Figure: 7.6.5	Workout Goal Saved Screenshot.....	84
Figure: 7.6.6	Enable Workout Goal Screenshot.....	84
Figure: 7.6.7	Workout Goal Completion Notification 1 Screenshot.....	85

Figure: 7.6.8	Workout Goal Completion Notification 2 Screenshot.....	85
Figure: 7.6.9	Workout Goal Completion Notification 3 Screenshot.....	86
Figure: 7.6.10	Workout Goal Setting Validation Screenshot.....	86
Figure: 7.7.1.1	Reminder Settings Screenshot.....	87
Figure: 7.7.1.2	Reminder Access Screenshot.....	87
Figure: 7.7.2.1	Navigation to Workout Reminders Screenshot.....	88
Figure: 7.7.2.2	Workout Reminder List Screenshot.....	88
Figure: 7.7.2.3	Add New Reminder Screenshot.....	89
Figure: 7.7.2.4	Reminder Repeat Pattern Screenshot.....	89
Figure: 7.7.2.5	Reminder Alarm Pattern Screenshot.....	90
Figure: 7.7.2.6	Reminder Save Confirmation Screenshot.....	90
Figure: 7.7.2.7	List of Reminders Screenshot.....	91
Figure: 7.7.2.8	Reminder Alarm Notification Screenshot.....	91
Figure: 7.7.2.9	Fitness Calendar Screenshot.....	92
Figure: 7.7.2.10	Reminder in Native App Screenshot.....	92
Figure: 7.7.2.11	Reminder Details Screenshot.....	93
Figure: 7.7.2.12	Repeat Pattern in Native App Screenshot.....	93
Figure: 7.7.2.13	Add new Reminder in Native App Screenshot.....	94
Figure: 7.7.2.14	Reminder Fetch Screenshot.....	94
Figure: 7.7.3.1	Select Reminder Screenshot.....	95
Figure: 7.7.3.2	Edit Reminder Screen Screenshot.....	95
Figure: 7.7.3.3	Change Repeat Pattern Screenshot.....	96
Figure: 7.7.3.4	Save Changes Confirmation Screenshot.....	96
Figure: 7.7.3.5	Changes Updated Screenshot.....	97
Figure: 7.7.3.6	Enable Disable Reminder Screenshot.....	97
Figure: 7.7.3.7	Repeat Pattern Missed Out Screenshot.....	98
Figure: 7.7.3.8	Delete Reminder Confirmation Screenshot.....	98
Figure: 7.7.3.9	Reminder Deleted Screenshot.....	99
Figure: 7.7.3.10	Reminder Deleted in Native App Screenshot.....	99
Figure: 7.8.1	Navigation to Heart Rate Monitor Screenshot.....	100
Figure: 7.8.2	Filling Filtering Details Screenshot.....	100
Figure: 7.8.3	HR Graph (hh:mm) Screenshot.....	101
Figure: 7.8.4	HR Graph (MMM-yy) Screenshot.....	101

Figure: 7.8.5	HR graph (hh:mm:ss) Screenshot.....	102
Figure: 7.9.1	Showing Music Player Controls Screenshot.....	103
Figure: 7.9.2	Add Songs to Playlist Screenshot.....	103
Figure: 7.9.3	Music Being Played Screenshot.....	104
Figure: 7.9.4	Playlist Screenshot.....	104
Figure: 7.10.1	Reset All Data Screenshot.....	105
Figure: 7.10.2	Confirmation of Resetting Data Screenshot.....	105
Figure: 7.10.3	Progress of Resetting Data Screenshot.....	106
Figure: 7.10.4	Progress of Resetting Data Completed Screenshot.....	106
Figure: 7.11.1	Sharing Option Screenshot.....	107
Figure: 7.11.2	Account Configuration Screenshot.....	107
Figure: 7.11.3	Facebook Dialog (Statistics) Screenshot.....	108
Figure: 7.11.4	Facebook Dialog (Workout) Screenshot.....	108
Figure: 7.11.5	Account Configuration Missing Screenshot.....	109