ID	Requirements	Related	Fulfilled by	Test	Description
		Use-case			
1	Ensure the application is	N/A	MainWindow.ui	Run the simulator in	
	intuitive and user-friendly			Qt to observe the ui.	
2	The application interface	N/A	MainWindow.ui	Run the simulator in	Using QTs built in user
	contains buttons and			Qt to observe the ui.	interface framework, the
	display				physical RaDoTech system
					was replicated. Also, all
					buttons are clickable and
					functional.
3	Ensure the system can	Creating a	MainWindow	Run the simulator in	The RaDoTech code was
	handle a growing number of users and data points	new RaDoTech		Qt to observe the ui.	implemented using easily modifiable arrays to
	or users and data points	Profile			track/store persistent user
		Tionic			and data memory while
					running simulator The
					MainWindow class initializes
					and creates all necessary
					objects,
4	Create, update, and delete	Creating a	MainWindow, User	Run the simulator in	The User class stores all the
	user profiles. Each device	new		Ot and create	collected user information.
	should support multiple	RaDoTech		maximum number of	The User object is initialized
	profiles (up to five)	Profile		test user profile	by MainWindow which
					controls user profile creation
					and deletion
5	Interface with RaDoTech	RaDoTech	AppWidget	Select a user and	Using QTs built in user
	hardware to collect health	Health		from the sidebar	interface framework, the
	data.	Monitoring		menu select	physical RaDoTech system
		Device		Measure page.	was replicated and is
					implemented using a stacked
					Widget QObject alongside a
					sidebar panel for user
					navigation to stacked
					widgets.

6	Show the device contacting or not contacting the skin.	RaDoTech Health Monitoring Device	AppWidget	Start a scan and select scan hands or feet button, then observe the ui.	The AppWidget class contains the scanning implementation of the RaDoTech device. It checks for device contact with skin before every scan, if no skin contact sensed, it aborts scan, updates ui then retries the scan
7	Process raw data to generate health metrics as you understand it	RaDoTech Health Monitoring Device	AppWidget , Data	Select a user and from the sidebar menu select Data page and toggle data.	The Data class replicates live raw reading from a sensor using a random number generator, generating values from an acceptable range. It passes the raw data into a function, to be processed to a user friendly, visually appealing format, with a color legend to aid user.
8	Display health metrics in an easy-to-understand, visual format within the application	RaDoTech Health Monitoring Device	AppWidget, Data, BarChart	Select a user then complete a scan. From the sidebar menu select Data page and toggle graph	The visual format is implemented in the BarChart Class. The barChart QWidget is initialized by the AppWidget class and receives data points to be displayed in bar chart
9	Provide a place-holder for specialists' recommendation	N/A	AppWidget	Select a user and from the sidebar menu select Data page, then toggle to recommendation.	This is implemented by the AppWidget class as a QStackedWidget.
10	Store and allow users to access historical health data	View Scan History	AppWidget, User, Data	Select a user and from the sidebar menu select history page.	The user historical data is implemented and stored by the User class in a QList <data< th=""></data<>

11	Show charge depletion and low power indication.	Charge RaDoTech Device	AppWidget	Start a treatment and observe the battery icon: battery level will lower with each completed scan. Select charge from sidebar menu to recharge	The battery replicated in the UI using a Qwidget and implemented by AppWidget class It keeps consistent record of the power level of the device, to track low battery. It contains QTimer it updates the UI display. As each scan is run, the battery level will consistently decrease until charged