## **Use Cases**

Note: Use case diagram file names correspond numerically to the respective use cases in this PDF

#### **Use Case 1: Create User Profile**

Primary Actor: User

## Stakeholders and Interests:

User - wants to create a profile to store exam results under.

RaDoTech Company - wants their customers to be able to easily organize their exam results with profiles.

<u>Preconditions:</u> The app is already running.

<u>Success Guarantee:</u> The app will create a user profile with the given information, and store it for future use.

#### Main Success Scenario:

- 1. The user clicks on the profiles option at the top of the screen to take them to the profiles page.
- 2. The user selects the create profile button.
- 3. The user fills in the information in the form displayed.
- 4. The user selects the submit button to create and store their profile page.

#### **Extensions**:

2a. The maximum number of profiles has been created.

2a1. The user is prompted via message box popup to delete a profile before creating a new one.

# **Use Case 2: Update User Profile**

Primary Actor: User

## Stakeholders and Interests:

User - wants to update their profile so that the information it contains is accurate.

RaDoTech Company - wants to ensure that profiles can be updated after their creation so that the information they contain can remain accurate.

<u>Precondition:</u> The app is already running.

Success Guarantee: The app will update a user profile with the given information.

## Main Success Scenario:

- 1. The user clicks on the profiles option at the top of the screen to take them to the profiles page.
- 2. The user selects the profile from the dropdown menu that they wish to modify.
- 3. The user enters the password that corresponds to the profile they want to change.
- 4. The user changes the information in the form displayed.
- 5. The user selects the submit button to update and store their profile page.

## **Extensions**:

3a. The password is incorrect.

3a1. An error will be displayed and the user will be returned to step 2.

#### **Use Case 3: Delete User Profile**

Primary Actor: User

Stakeholders and Interests:

User - wants to delete a profile they no longer want.

RaDoTech Company - wants the user to be able to delete profiles the user no longer wants to free space for more profiles.

<u>Precondition:</u> The app is already running.

Success Guarantee: The app will delete a user profile.

## Main Success Scenario:

- 1. The user clicks on the profiles option at the top of the screen to take them to the profiles page.
- 2. The user selects which profile they want to delete from the drop down menu.
- 3. The user enters the password that corresponds to the profile they want to change.
- 4. The user selects the delete button to delete the account.

#### Extensions:

3a. The password is incorrect.

3a1. An error will be displayed and the user will be returned to step 2.

# **Use Case 4: Select User Profile for Device Use**

Primary Actor: User

**Stakeholders and Interests:** 

User - wants to be able to select their desired profile for examinations.

RaDoTech Company - wants the user to be able to select the profile they want to use for examinations.

<u>Precondition:</u> The app is running, the profile that the user wishes to select exists.

Success Guarantee: The app will select a user profile.

## Main Success Scenario:

- 1. The user clicks on the profiles option at the top of the screen to take them to the profiles page.
- 2. The user selects the account they want to use from the dropdown menu.
- 3. The user enters the password that corresponds with the profile the user wishes to select.
- 4. The user presses the select button.

## **Extensions:**

3a. The password is incorrect.

3a1. An error will be displayed and the user will be returned to step 2.

## **Use Case 5: Connect App to Hardware**

Primary Actor: User

Stakeholders and Interests:

User - wants to connect a RaDoTech device to the app to take exams with.

RaDoTech Company - wants the user to be able to use their RaDoTech devices to take exams.

<u>Precondition:</u> The RaDoTech device has been switched on and charged, the app is running.

Success Guarantee: The device successfully connects to the RaDoTech app.

Main success scenario:

- 1. The user presses the button to turn on the RaDoTech device.
- 2. The user presses the connect device button that pairs the device with the app.

#### Extensions:

2a. There is an error while pairing the devices.

2a1. A popup appears to tell the users there is an error and to try again.

# **Use Case 6: User Takes Readings With RaDoTech Device**

Primary Actor: User

Stakeholders and Interests:

User - wants to use the RaDoTech device to take a health examination.

RaDoTech company - wants users to be able to use their app and device to take health examinations.

<u>Precondition:</u> The RaDoTech device is charged and functional, the user has their desired profile selected in the app.

<u>Success Guarantee:</u> The RaDoTech app takes the readings of key points on the user's body.

#### Main Success Scenario:

- 1. The user clicks on the exams option at the top of the screen to take them to the exam page.
- 2. The user clicks the start new exam button.
- 3. The app will mark an area that the user has to scan.
- 4. The user lightly sprays water on the area specified on the app.
- 5. The user gently presses the device's sensor on the area.
- 6. The user holds the device against the designated area until the app indicates they can remove the device.
- 7. The user removes the device from the area.
- 8. The app displays the next area required to take the readings of.
- 9. The user repeats steps until 3 to 7 until they have scanned all the critical areas on both their arms and feet.
- 10. Once the user has completed the readings, a popup will appear signifying that their scan is complete.

# **Extensions:**

2a. RaDoTech device is not paired to the app

2a1. You are taken to a window for the pairing, refer to *Use Case 5*.

6a. RaDoTech device does not get a proper reading

6a1. Popup window signifying an error and previous reading is erased.

#### Use Case 7: Show or View Historical Examination Data to User

Primary Actor: User

## Stakeholders and Interests:

User - wants to see a previous examination they have taken

RaDoTech Company - wants users to be able to see old exams they have taken.

<u>Precondition:</u> A successful exam has been taken using a RaDoTech device connected to the app, the profile the user took the exam under is currently selected.

Success Guarantee: The user can see their exam results on the RaDoTech app.

Main Success Scenario:

- 1. The user clicks on the results option at the top of the screen to take them to the results page.
- 2. The user selects the exam they want to view.
- 3. A graph displaying the exam results appears on the app.

# **Use Case 8: Display Health Recommendations to User**

Primary Actor: User

# Stakeholders and Interests:

User - wants to see health recommendations based on examinations they have taken.

RaDoTech Device - wants the user to be able to see recommendations based on the data a RaDoTech device collects from exams.

<u>Precondition:</u> Users' body statistics have been successfully recorded and stored by the RaDoTech app.

<u>Success Guarantee:</u> user gain some health recommendation for their current body state Main Success Scenario:

- 1. The user clicks on the results option at the top of the screen to take them to the results page.
- 2. The user selects the exam they want to view.
- 3. Recommendations corresponding to the results of the exam appear below a graph of the results on the app.

#### Extensions:

3a. The user wants further recommendations or has questions about how to best interpret the data.

3a1. The user can email <u>prime@RaDoTech.com</u> to ask the customer support team for help.

#### Use Case 9: RaDoTech Device Indicates it is at Low Power

Primary Actor: RaDoTech Device

Stakeholders and Interests:

User - wants to know when the battery reaches low power so they know it needs to be charged.

<u>Preconditions:</u> The device is powered on and functioning, the device power is under "low

power" threshold

Minimal Guarantee: RaDoTech device will detect the device power is at low power.

Success guarantee: RaDoTech device will show a low power warning to the user.

Main Success Scenario:

1. The device triggers a "low power" warning pop up window on the app.

# **Use Case 10: RaDoTech Device Loses Battery Charge**

Primary Actor: RaDoTech device

Stakeholders: User

Precondition: The device is powered on and functioning.

Minimal Guarantee: The battery value will change when the power level lowers.

<u>Success Guarantee:</u> The battery value will decrease as use time increases.

Main Success Scenario:

1. The device is powered on.

2. Device battery level decreases as the time the device is on increases.

3. The device triggers use case 9 if power is under "low power" threshold (10%).

# Use Case 11: RaDoTech Device Gracefully Shuts Down When Out of Power

Primary Actor: RaDoTech Device

Stakeholders: User

Precondition: The device is powered on and functioning, the device power was under

the"shutdown" threshold.

Minimal Guarantee: The device will acknowledge that it is out of power.

Success Guarantee: The device will gracefully shutdown.

Main Success Scenario:

- 1. The device triggers a "No power, shutting down" warning pop up window on app display.
- 2 The device turns itself off