

## TEAM 46

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## Work Done

Damilola and Rawan worked on the front-end which included GUI and connecting the slots in MainWindow all done in Qt Creator.

Victor and Edi worked on back-end and code design.

Everyone worked together to merge both ends together.

Rawan worked on Sequence Diagrams, State Diagrams, Traceability Matrix, and Use Cases

Victor worked on UML Diagrams

Damilola and Victor worked on README

## File Organization

```
|— 3004Project.pdf
|— ReadMe.pdf
|— Qt_Widget
    |— cpp
    |   |— Battery.cpp
    |   |— Connection.cpp
    |   |— Machine.cpp
    |   |— main.cpp
    |   |— mainwindow.cpp
    |   |— Power.cpp
    |   |— Session.cpp
    |— h
    |   |— Battery.h
    |   |— Connection.h
    |   |— Machine.h
    |   |— mainwindow.h
    |   |— Power.h
    |   |— Session.h
```

## Test Scenarios












There is one test scenario that will require changes in the source files

1. Changing connection type (bad connection, ok connection, excellent connection):
  - a. Go to Machine.pp file
  - b. Navigate to line 354











- c. Uncomment the connection type you are trying to test

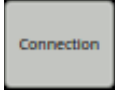
### Code breakdown


#### To run a session

1. Press the power on button  to start the machine.
2. Choose a duration between (20 min , 45 min  or User designated ) then click the select button .
3. Select a type between , , ,  then press on any of the numbers between 1 - 8 to choose intensity, then press the select button.
4. Click the connection button , to see the strength of connection. If the connection is green or yellow then you can select ok. If the connection is red, the session won't run until the connection is fixed.
5. If connection is yellow or green, press the select button  to start the session.


#### To record a session


1. Press the power on button  to start the machine.
2. Choose a duration between (20 min , 45 min  or User designated ) then click the select button .
3. Select a type between , , ,  then press on any of the numbers between 1 - 8 to choose intensity, then press the select button.
4. Press on the record button .

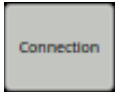

5. Click the connection button , to see the strength of connection. If the connection is green or yellow then you can select ok. If the connection is red, the session won't run until the connection is fixed.

6. If connection is yellow or green, press the select button  to start the session.  
7. After the session is done, the recorded session will appear on the screen.

#### To Replay a Session

1. Press the power on button  to start the machine.  
2. Select the recorded session you would like to replay on the display, click the replay

button  then press the select button

3. Click the connection button , to see the strength of connection. If the connection is green or yellow then you can select ok. If the connection is red, the session won't run until the connection is fixed.  
4. If connection is yellow or green, press the select button  to start the session.