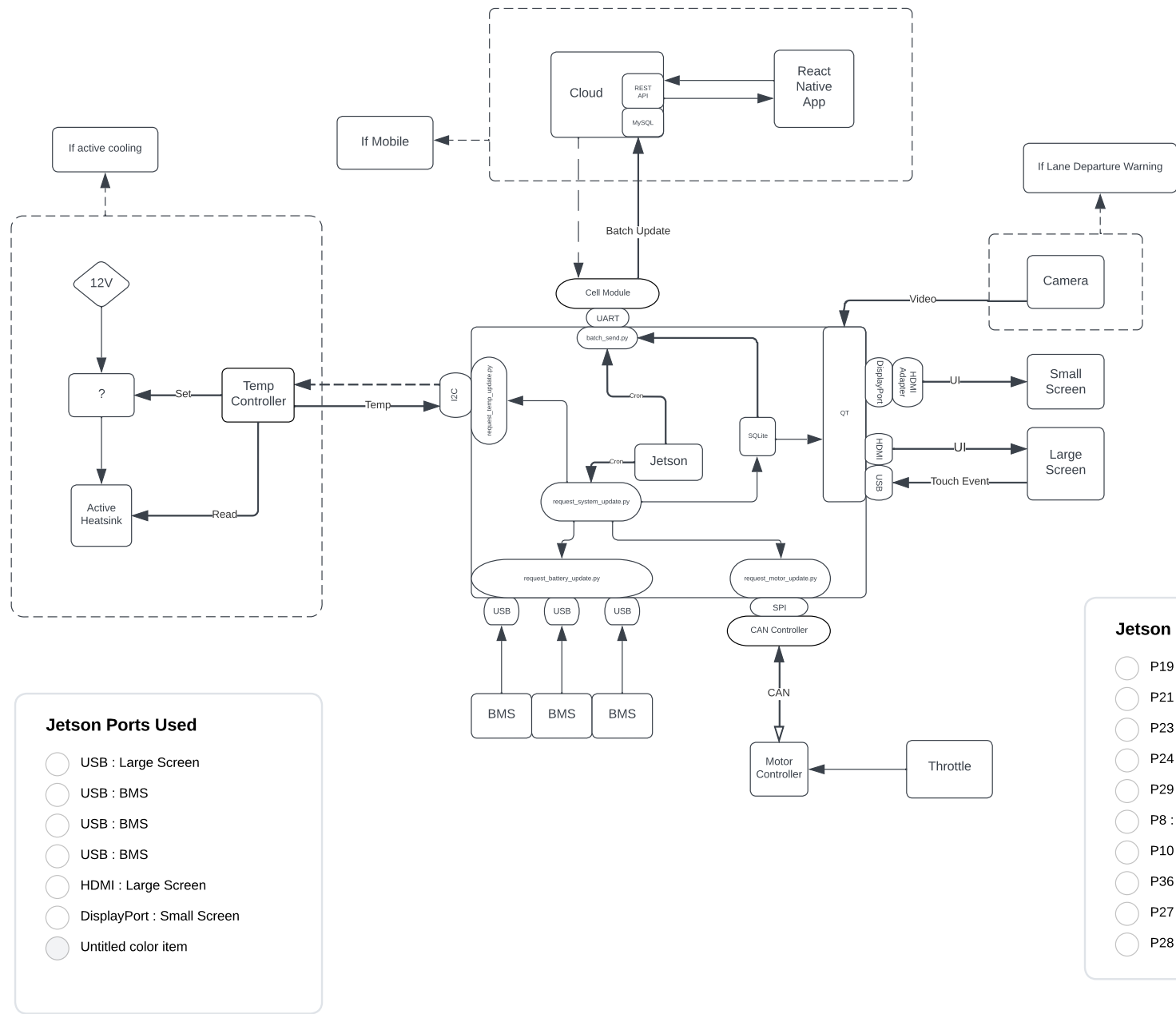


Custom serial protocol
between jetson and
temp controller



system_scripts

November 4, 2022

0.0.1 request_system_update

- request_battery_update
- request_motor_update
- request_temp_update

request_battery_update

```
[1]: import dalybms

# bms_ports = ["/dev/ttyUSB0", "/dev/ttyUSB1", "/dev/ttyUSB2"]

# responses = []

# for bms in bms_ports:
#     dalybms.connect(bms)
#     response_dict = dalybms.get_all()
#     responses.append(response_dict)
#     dalybms.disconnect()

# # possibly average responses
```

request_motor_update

```
[4]: import canopen

# network = canopen.Network()

# network.connect(channel='can0', bustype='socketcan')

# node = network.add_node(6, '/path/to/object_dictionary.eds')

# local_node = canopen.LocalNode(1, '/path/to/master_dictionary.eds')
# network.add_node(local_node)
```

request_temp_update

```
[ ]: # TODO
```

request_system_update

```
[ ]: # import read_battery_update
      # import read_motor_update
      # import read_temp_update
      # import SQLite

      # connect to database
      # load and package system update
      # insert into database
      # disconnect
```

0.1 batch_send_updates

```
[ ]: # import SQLite

      # connect to local SQLite database
      # connect to remote MySQL database
      # query local database
      # package batch update
      # send batch to remote MySQL database
      # wait for success
      # if successful then purge all but most recent data from local SQLite database
      # else ? # terminate? set a max on local database and lose data until cell
      ↪reception returns
```