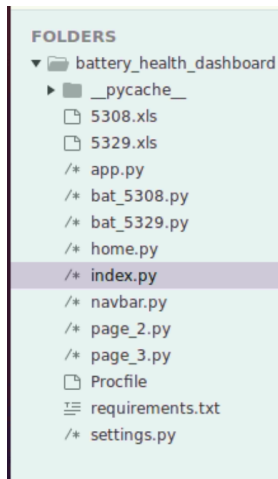


# Battery Health Status: Documentation

1. The file structure is :

```
Battery_health_dashboard
|
|-5308.xls
|-5329.xls
|-app.py
|-bat_5308.py
|-bat_5329.py
|-home.py
|-index.py
|-navbar.py
|-page-2.py
|-page-3.py
|-requirements.txt
```

As, below:



2. To serve the UI dashboard on port: /8080

Step-1: `cd Battery\_health\_dashboard`

Step-2: `pip install -r requirements.txt` to install all the dependencies.

Step-3: `python index.py` to run the UI dashboard.

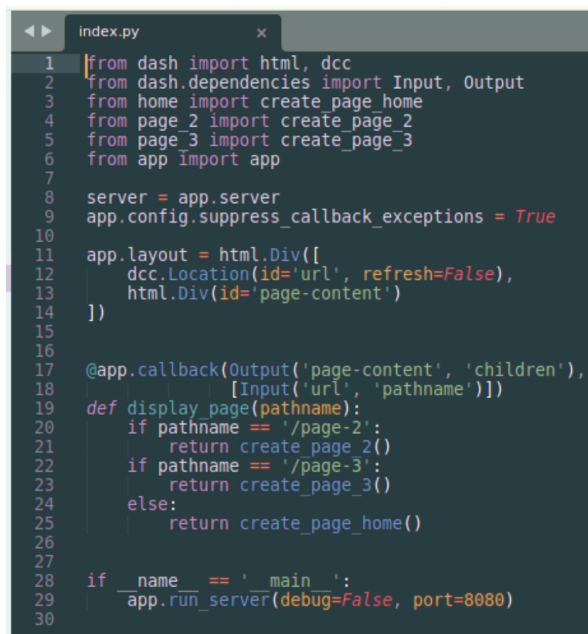
```
mantech@mantech:~/moumita/nunam_assignment_task/nunam/battery_health_dashboard$ python3 index.py
/home/mantech/.local/lib/python3.8/site-packages/dash_bootstrap_components/_table.py:5: UserWarning:
The dash_html_components package is deprecated. Please replace
`import dash_html_components as html` with `from dash import html`
  import dash_html_components as html
/home/mantech/moumita/nunam_assignment_task/nunam/battery_health_dashboard/navbar.py:3: UserWarning:
The dash_core_components package is deprecated. Please replace
`import dash_core_components as dcc` with `from dash import dcc`
  import dash_core_components as dcc
Dash is running on http://127.0.0.1:8080/

* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
```

So, the dash is running on <http://127.0.0.1:8080/> port successfully .

## In-Depth description:

`index.py` file looks like :



```
1 from dash import html, dcc
2 from dash.dependencies import Input, Output
3 from home import create_page_home
4 from page_2 import create_page_2
5 from page_3 import create_page_3
6 from app import app
7
8 server = app.server
9 app.config.suppress_callback_exceptions = True
10
11 app.layout = html.Div([
12     dcc.Location(id='url', refresh=False),
13     html.Div(id='page-content')
14 ])
15
16 @app.callback(Output('page-content', 'children'),
17               [Input('url', 'pathname')])
18 def display_page(pathname):
19     if pathname == '/page-2':
20         return create_page_2()
21     if pathname == '/page-3':
22         return create_page_3()
23     else:
24         return create_page_home()
25
26
27
28 if __name__ == '__main__':
29     app.run_server(debug=False, port=8080)
30
```

Line-1 -line-2: importing the dash dependencies.

Line-3: from home.py file importing the create\_page\_home that contains all the piecharts on the home page.

Line-4-line-5: “create\_page\_2” contains the charts about the battery\_5308 and “create\_page\_3” contains the charts about battery-5329.

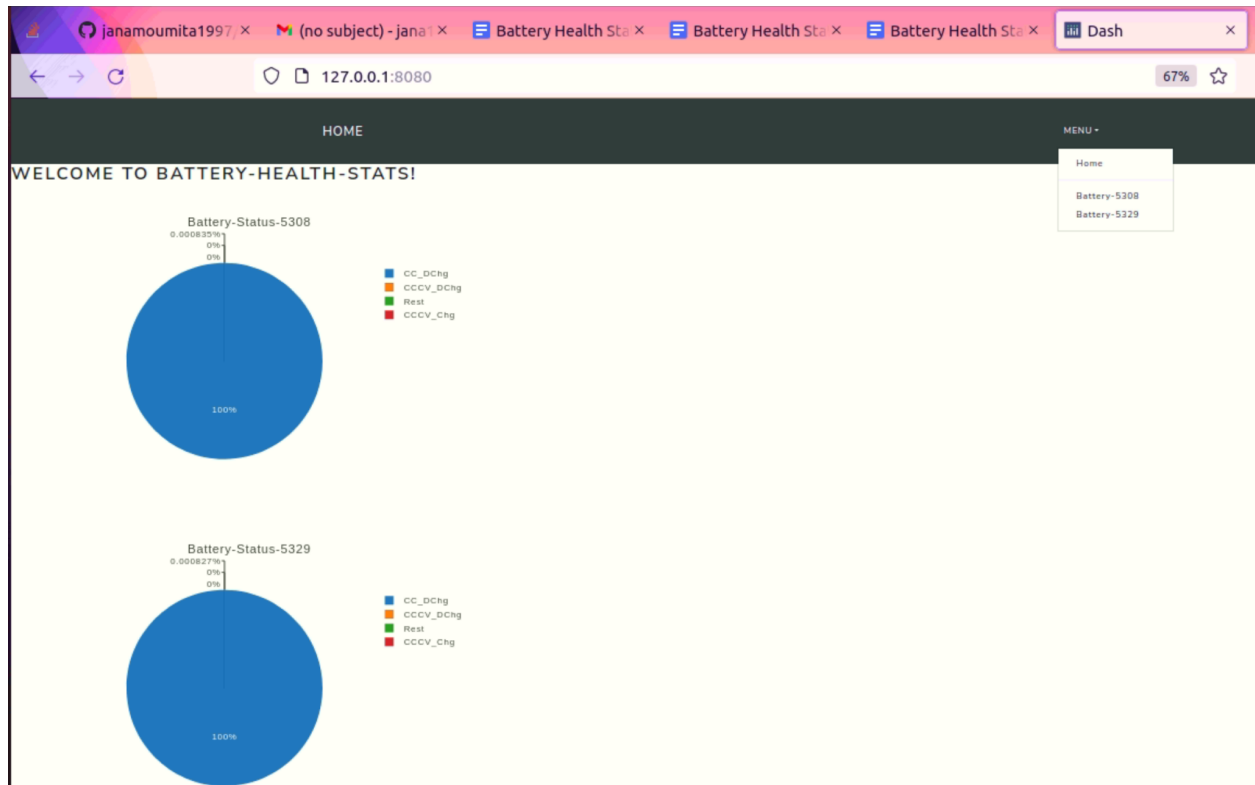
A callback “@app.callbacks()” at line 17 to retrieve url online.

Line19-line25: are self explanatory to fetch the assembled the endpoints from bat\_5308.py to create the page-2 and bat\_5329 to create the page-3.

To Run the UI dashboard on port-8080, “app.run\_server(debug=False, port=8080)”

Some Screenshots of the dashboard:

Home-page:



Click on “Battery-5308” to look at the stats of battery-5308 and similarly for “Battery-5329”.

“

## Battery-5308”:



## “Battery-5329”:

