

E36312A GUI

GUI Diagram

Output Channels

Preset Voltage
Preset Current Limit
Channel On/Off

Change preset
Voltage

Change preset
Current Limit

All On/Off

Terminal

Command Input
Command Output

Notes

Text Box

The screenshot shows the E36312A GUI with three output channels (Channel 1, Channel 2, Channel 3) each displaying voltage and current settings, and buttons for 'Set Voltage' and 'Set Current Limit'. Below the channels are 'Turn All On' and 'Turn All Off' buttons. A terminal section at the bottom left has an 'Enter command' field and a 'Send Command' button. A notes section at the bottom right contains the text 'This is a test' and 'Another Test'.

Data Recorder

Recorder Settings
Start / Stop Data
Recording

Set Frequency of
Measurements
Recorded

Create New
Bucket

Select from
Available Buckets



Output Channels

| Heading | Description |
|------------------------------|---|
| Preset Voltage | Displays the voltage to which it has been set |
| Preset Current | Displays the current limit to which it has been set |
| Channel On/Off | Toggles each individual channel |
| Change Preset Voltage | Changes the preset voltage for each channel |

| | |
|------------------------------|---|
| Change Preset Current | Changes the preset current limit for each channel |
| All On/Off | Toggles all channels |

Terminal

| Heading | Description |
|-----------------------|---|
| Command Input | Users can enter commands not covered by the GUI |
| Command Output | The result of the command input is displayed here |

Notes

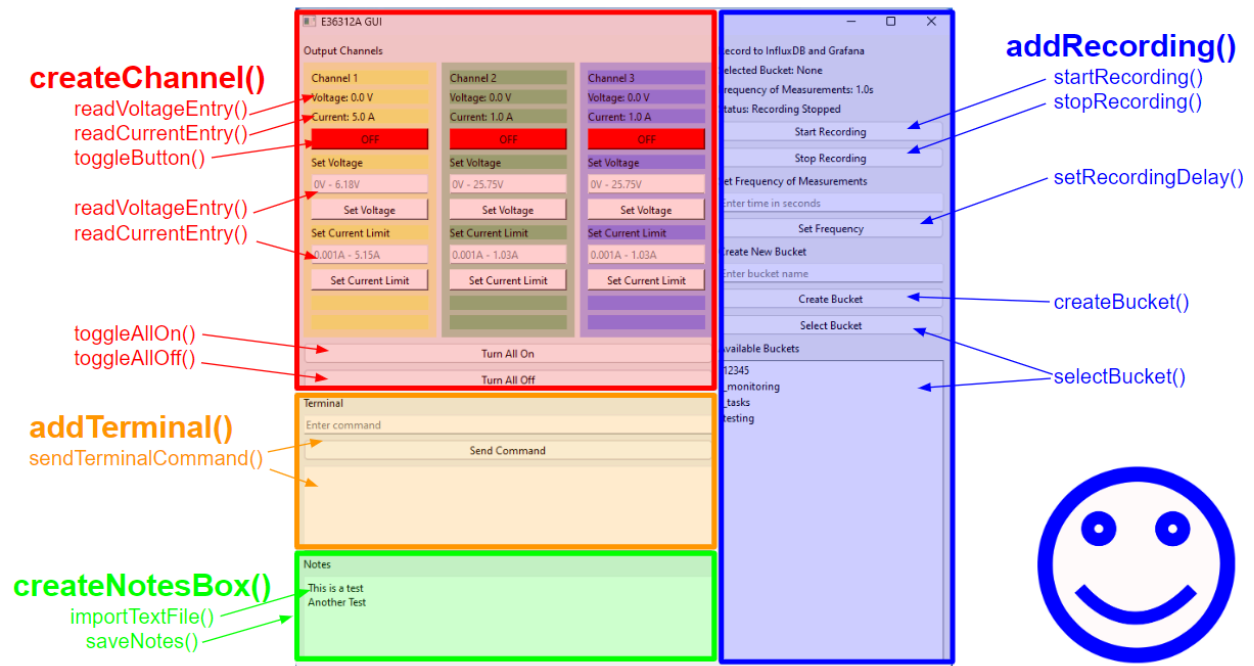
| Heading | Description |
|-----------------|---|
| Text Box | Users can type notes about miscellaneous commands or observations. These notes are autosaved to a text file. |

Data Record

| Heading | Description |
|--------------------------|--|
| Recorder Settings | Displays the bucket that will store the data, the frequency of |

| | |
|---|--|
| | measurements and whether the program is currently recording. |
| Start/Stop Data Recording | Toggles whether the data is saved and uploaded to the database. Recorder only records data for channels that are ON. |
| Set frequency of measurements recorded | Sets the delay between each measurement taken by the program. 2 seconds is the lowest due to the execution time of the code. |
| Create new bucket | Creates a new bucket in InfluxDB that can be written to |
| Select from available buckets | Displays all available buckets that can be written to by the program |

Programming Diagram



Corresponds to Python code