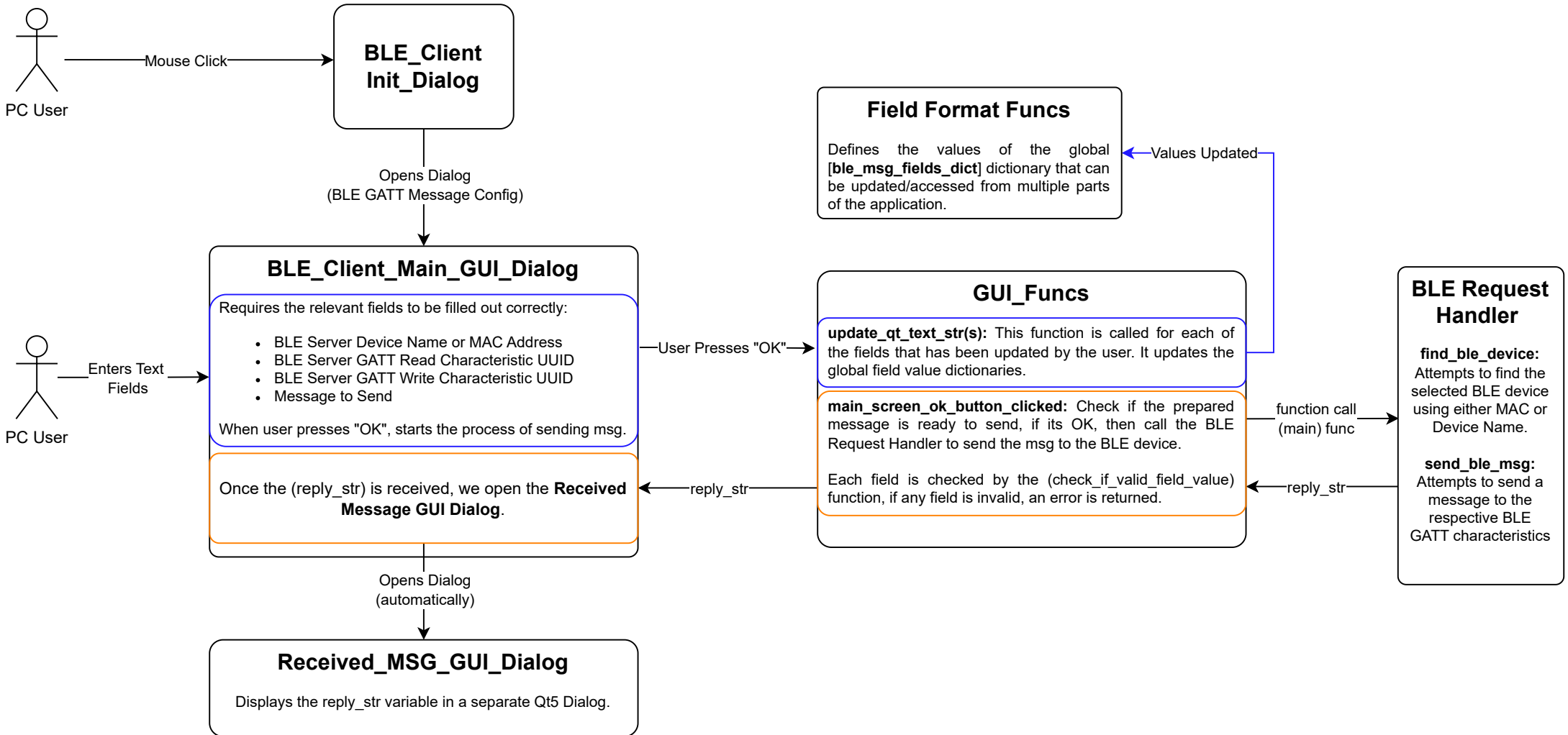
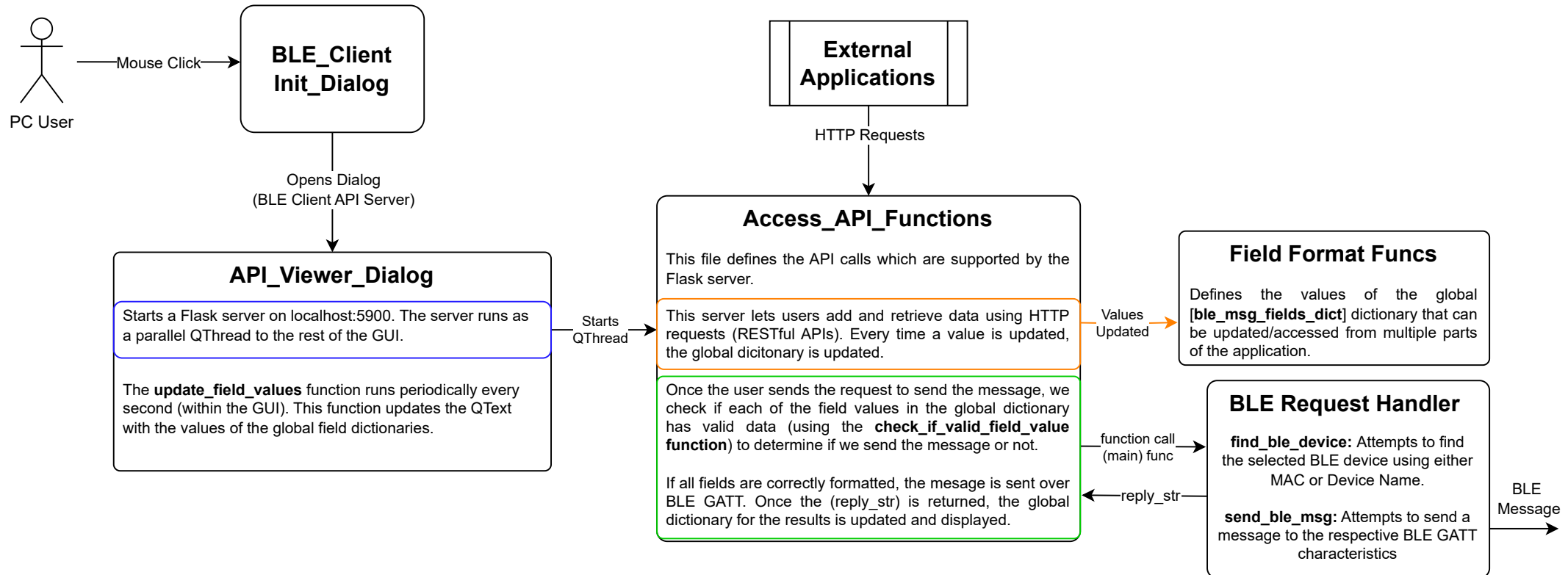


Manually Configuring a BLE GATT message



Starting RESTful server to configure BLE GATT message through API calls



RESTful API Requests

The following HTTP requests show examples on how to configure the necessary parameters to communicate with a BLE Server using BLE GATT.

Setting up the GATT Read/Write Characteristic UUIDs to use for this message:

- `http://127.0.0.1:5900/gatt/write/0000XXXX-0000-1000-8000-00805f9b34fb`
- `http://127.0.0.1:5900/gatt/read/0000XXXX-0000-1000-8000-00805f9b34fb`

Setting up the BLE Device by using the Device Name or MAC Address:

- `http://127.0.0.1:5900/device/name/XXXXXXXXXXXXXXXXXX`
- `http://127.0.0.1:5900/device/address/aa:bb:cc:dd:ee:ff`

To configure the actual message (string) to send to the BLE Server, use the following request:

- `http://127.0.0.1:5900/msg/XXXXXXXXXXXXXXXXXXXXXXXXXXXX`

Once the user has defined all the necessary fields to send a message over BLE, we can send the message using the following request:

- `http://127.0.0.1:5900/send_msg`

String Encoding:

This application checks the formatting of each of the following fields (and returns an error message instead of updating the values if certain conditions aren't met):

- GATT Read and Write Characteristic UUIDs
- Device Name
- MAC Address

When updating the actual message field, ensure that you take into consideration factors like URL encoded versions of strings, as this app will not automatically convert strings into URL-compatible strings.