```
std::enable shared
           _from_this< GUII >
                   GUII
+ virtual std::unique
  _{\rm ptr} < CommandI > Update()=0
+ virtual bool ShouldClose()=0
```

+ virtual std::string OpenFileDialog()=0

```
+ virtual void set_prevent
    _input_flag(bool set)=0
+ virtual std::unique
_lock< std::mutex >
    Tock_mutex()=0
# virtual void Initialize
    (const std::string &windowName,
std::shared_ptr< SDFormatParserl
> sdformat_parser, bool &success)=0
```

GLFWwindow * window ImGuilO * io std::shared ptr< SDFormat Parserl > sdformat parser ImVec4 background colour std::mutex gui mutex + GUI(const std::string

&window_name, std::shared _ptr< SDFormatParserl > sdformat

_parser, bool &success)

void Initialize(const

~GUI()

override

GUI

std::atomic< bool > prevent input flag

std::string &window _name, std::shared_ptr < SDFormatParserl > sdformat parser, bool &success) override bool ShouldClose()

< SDFormatParserl > sdformat parser)

 $I > Update(\overline{)}$ override void set_prevent_input flag(bool set) override void DisplaySDFRootElement (std::unique_ptr< Commandl > &command, std::shared_ptr

std::unique_ptr< Command

std::string OpenFileDialog () override std::unique_lock< std ::mutex > lock_mutex

() override static void GLFWErrorCallback (int error, const char *description)