chatGPTuino state diagram

GET_USER_INPUT

Record and evaluate
keyboard presses

GET_RESPONSE

Send, receive, and parse
POST request to OpenAI API

DISPLAY_RESPONSE

Display new reponse from
OpenAI API

UPDATE_SYS_MSG

Change the current
system message

REVIEW_RESPONSE

Use up and down arrows to
scroll through a long message
response

Enter pressed

Response
Success

Response Fail

Esc Pressed

Enter Pressed

up/down arrow pressed
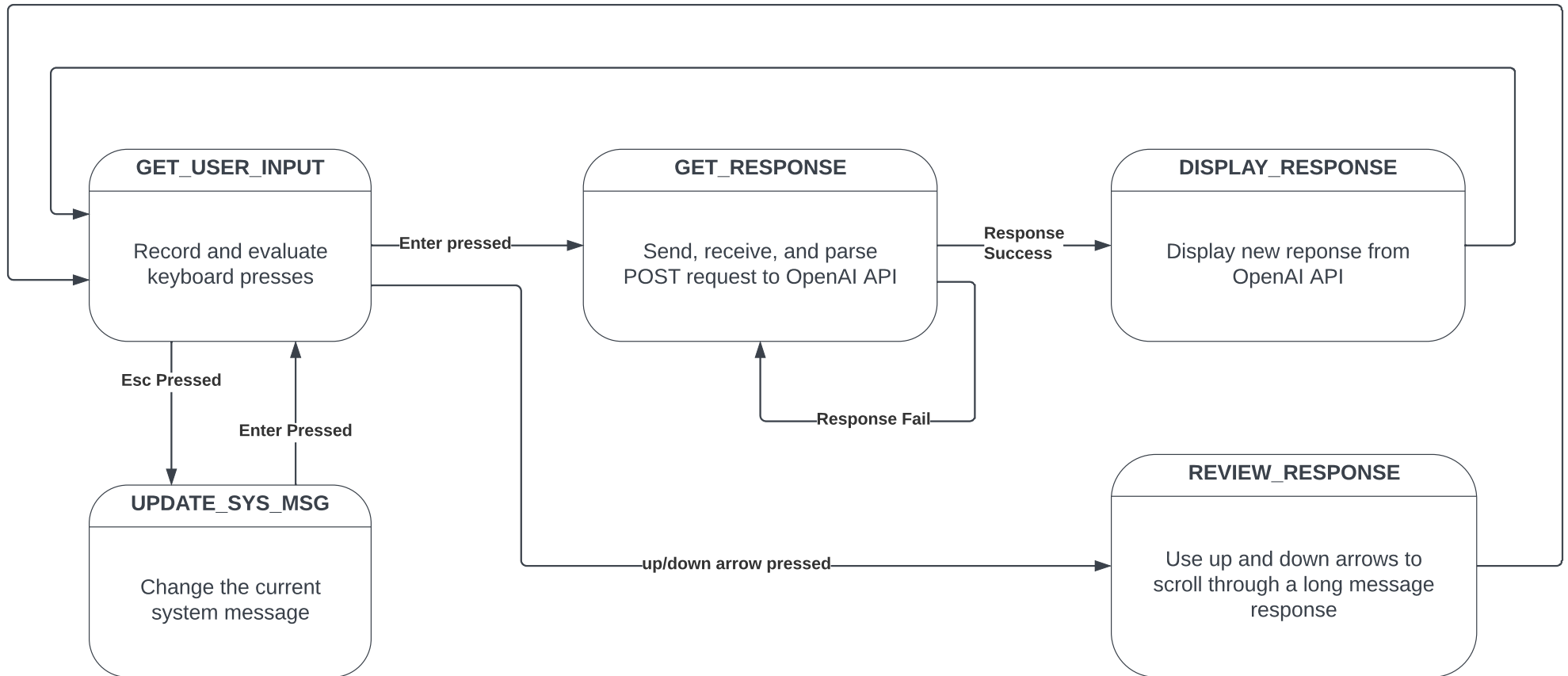
OpenAI API

When you send a request, you must include all previous chat messages if you want the response to be couched in the context of your previous messages.

```
messages=[
    {"role": "system", "content": "You are a helpful assistant."},
    {"role": "user", "content": "Who won the world series in 2020?"},
    {"role": "assistant", "content": "The Los Angeles Dodgers won the World Series in 2020."},
    {"role": "user", "content": "Where was it played?"}
]
```

system role is a message that can be used to steer the response of the model

user role is assigned to messages sent from the user to the model

assistant role is assigned to messages sent from the model to the user

messages array

```
struct message {
    enum roles role;
    char content[MAX_MESSAGE_LENGTH];
} messages[MAX_MESSAGES];
```

messages array treated like circular buffer

user message 1	assistant message 2	user message 3	assistant message 4

user message 5	assistant message 2	user message 3	assistant message 4