

Edward Gonzalez

Independent Study

September 9th, 2024

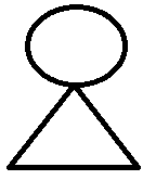
APIs and GUIs

The Graphical User Interface (GUI) is used for the user to interact with the software programs visually using interactive objects such as – buttons, icons, and menus. This provides a more streamlined and simplified interface for the user to engage with the program. The simplicity of the interface allows the user to control the program without prior programming knowledge. Due to the initial design of allowing users to navigate the system with a user–friendly and straightforward approach.

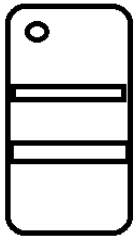
Meanwhile, Application Programming Interface (API) is an interface that a developer can use to create an application that can communicate with other programming systems. The API has a set number of rules and instructions that allow the developer to interact with software components such as – data, interconnect applications, and functions. Typically, APIs are more complex than GUIs because of the required knowledge of programming languages and logic needed to implement them.

In summary, both the API and GUI can interact with each other effectively. The GUI collects user inputs and interactions, which it then requests any necessary information from the API. Whereas the API provides the necessary backend information based on these interactions or requests. They both complete the experience for both the user and developer inside the application system.

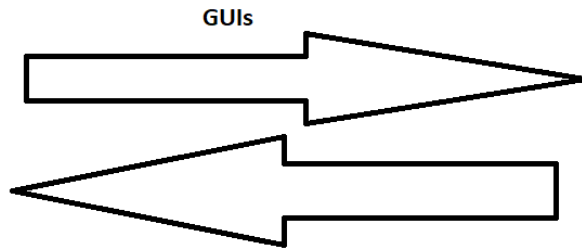
APIs and GUIs Design



User



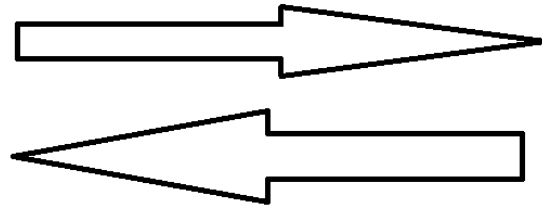
Hardware



GUIs



Website/UI



APIs



Server