Logical Software Architecture

The Core Engine is built utilizing a wrapper by a GitHub user NaamloosDT’s open source project DSharpPlus. This is a wrapper that encapsulates the Discord Inc. API(Application programming interface) to C#. The wrapper is used as it interfaces all of Discord’s client functionalities to able to interact with the user through this interface and produce a result through the same interface. This allows for easier documentation as DsharpPlus takes care some of the complex communication between the Discord API and the implementation of the Core Engine and can be simply represented in the diagrams.

Utilizing a wrapper interface means a lot of the functions can be overloaded or implemented to fit the requirements of the project as well default to base functions if there is no change to the handle of the events. DsharpPlus utilizes event hooking to enable singular functional handling such as exception handling is packaged