

Design rationale

The problem

I want to view my valorant rank and the rank of my friends quickly and easily. We are competitive so a leaderboard function is needed.

The process

- Identify possible platforms
 - Discord was used over other platforms due to its widespread usage amongst my friend group. Furthermore, development on discord is simple, with great API documentation.
- Apply for the creation of a discord bot
- Research RIOT API and apply for relevant access
- Research and code

Problems

There were several problems encountered during the development process of the discord bot, the 2 main ones being my lack of experience coding discord bots and the second being the long wait times in order to apply for a high level access to RIOT data.

I tackled my inexperience by first researching the packages I'd be using in order to code my project, such as the Discord API, RIOT API and pycord. There were quite a number of new systems and ideas I had to get used to, one of them being the async await syntax the more and more modern packages have been adopting. In addition to this, the integration between different systems continues to be an ever challenging part of project development.

The wait times RIOT games impose on us is unfortunately quite insurmountable, hence I implemented as much as I could without access to such data and simply used test stubs instead of real data temporarily.

Primer

Commands available:

\$register

\$rank

\$leaderboard

In order to use the discord bot, first **\$register** a valid valorant account through the use of the register command.

Once a user, or multiple users have been registered, you can use the **\$rank** command to see the rank of a specific user or use the **\$leaderboard** command in order to see the leaderboard of all users currently registered with the bot.