



SHAASTRA2022

Discord Bot

Coding A Discord Bot From Scratch

Day - 2

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Let's learn how our code's
are simple.

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You can describe the
topic of the section here

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Let's play on discord

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Winners gets certificates!

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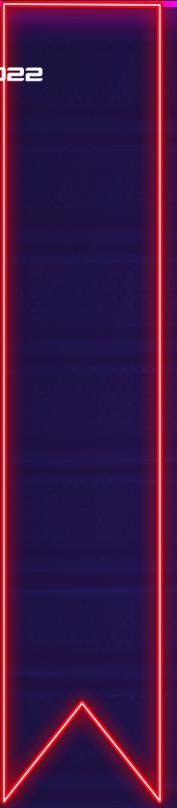




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LET'S BEGIN!





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01

APIs

Let Programs interact!!





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API

API is the acronym for Application Programming Interface.
APIs are used to communicate between two applications



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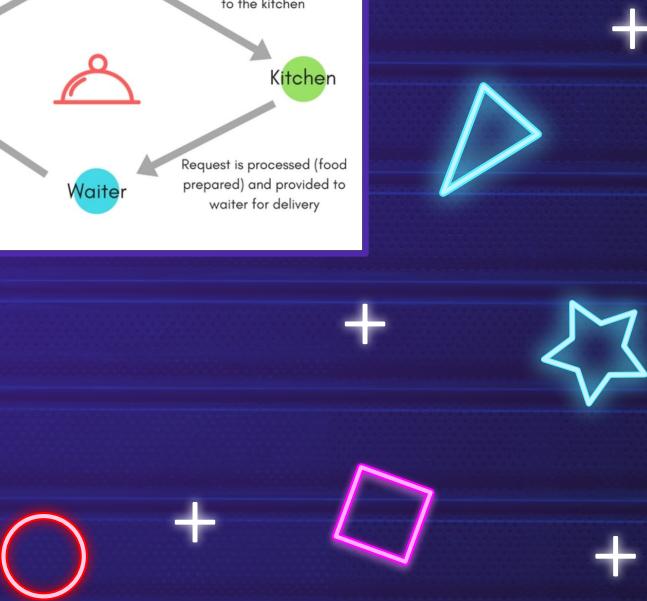
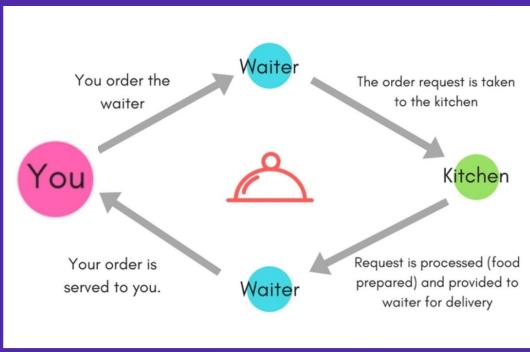
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Let's start with Analogy

Visiting a restaurant:-

- Customer → Client
- Waiter → API

→ Waiter gives information about dishes.
→ Customer don't need to know what happens behind the screen.



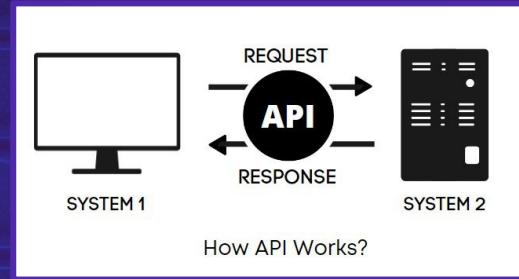


Uses of APIs

Uses of Application Programming Interface:-

1. Transfer Data.

- API's make communication between programs.
- In previous analogy, Waiter provides the data about dishes to the customer and back the order to the kitchen.



- Google using weather API to get the weather details.
- Apps on mobile use Data from sensors through APIs.



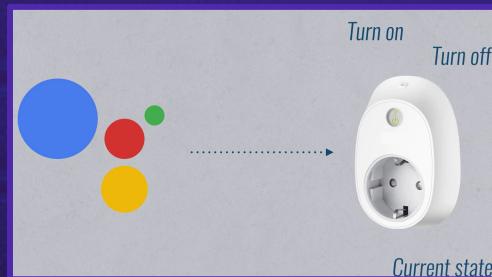
2) Hide Complexity

- Customer, not care about the process of making the dish
- Example, programs don't make wifi connections, etc, The OS does it.
- Programs can generally be made using APIs.



3) Extended Functionality

- A software using APIs can extend its functionalities without knowing about it.
- Google assistant carrying out a task of switching on a light using APIs.



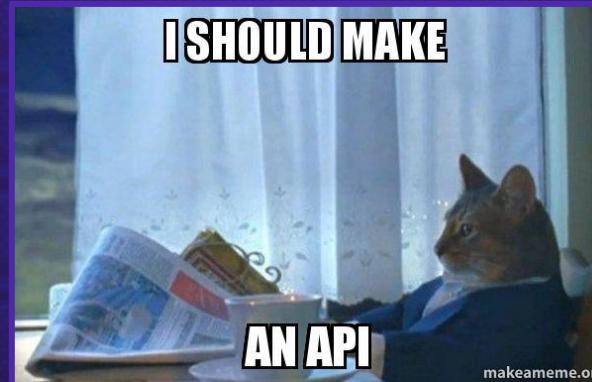
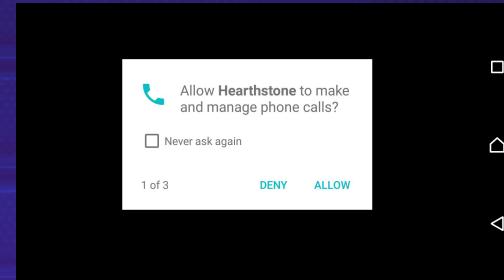


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4) Security

- APIs act as security guards.
- A program can access data only through APIs.
- Alerts us when a program tries to access data.



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Discord API

Discord provides its own API to make our lives easier.

By one command we can make connections between server and clients.

Provides information about real time events to clients.

Discord APIs are used for making BOTs and OAuth2 Integrations.





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02

Keeping the Bot alive

Is your Bot going offline??





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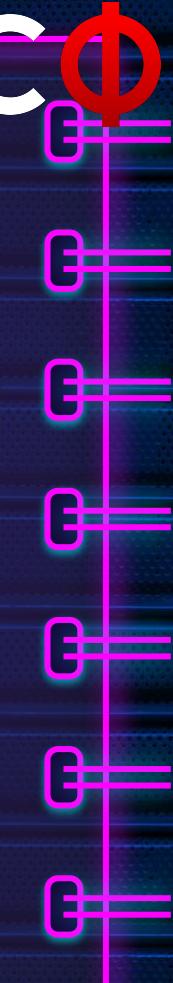
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How to make a bot keep always online?

- Host the code on a server.
- Use Repl.it as a web server.
Problems we face:-
 - Web server stays for 1hr without pinging the bot.

Solution:-

Constantly pinging the bot from an external website to keep alive.

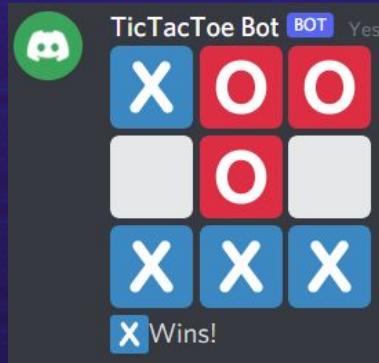




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03

Tic-Tac-Toe





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04

Reply Bot

Let some Bots inspire us!





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05

Quiz Bot



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THANK YOU EVERYONE! FROM OUR TEAM



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Kahoot Quiz!!!

We'll be conducting the quiz on Kahoot platform

- 1) Search for '[Kahoot](#)' on google/any search engine
- 2) Click this website.

 <https://kahoot.it>

Play Kahoot! - Enter game PIN here!

Join a game of kahoot here. Kahoot! is a free game-based learning platform that makes it fun to learn – any subject, in any language, on any device, for all ages!

- 3) Enter the **game pin** that we display on the screen now.



***Certificates of excellence that will be given is partly based on this quiz. So everyone do attend it and do so with your real name.



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Thank You
For Attending
All Along!

PS: We are not going to bug you with
post session tasks 😊