



GROUP NO. 303

-- GROUP MEMBERS --

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PROJECT - BUILDING A MULTIFUNCTIONAL DISCORD BOT

'ONYX'

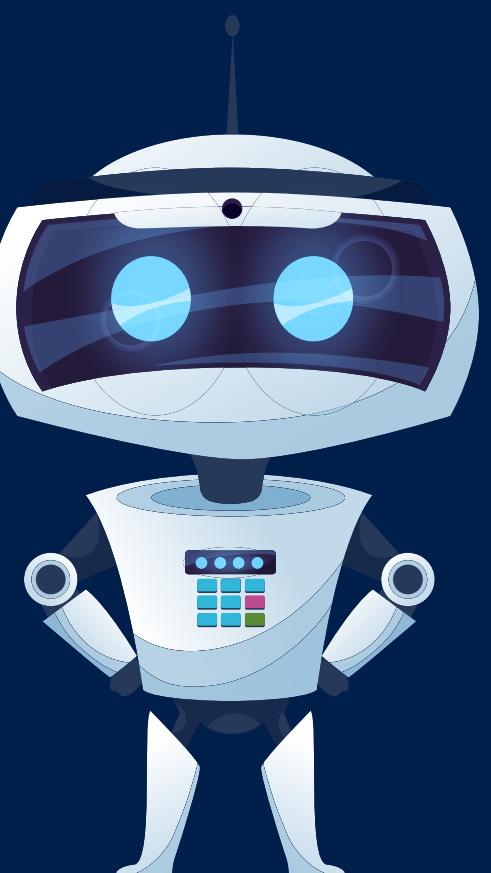


OVERVIEW

Discord is a VoIP (Voice over Internet Protocol), instant messaging and digital distribution platform designed for creating communities. Users communicate with voice calls, video calls, text messaging, media and files in private chats or as part of communities called “servers”.



In our project we have created a bot using Python and Discord API. For hosting purpose, we will use Heroku Cloud Service. The main purpose is to make the platform more interactive and easier to use.





OBJECTIVES



- **Understanding the Discord User Interface and how it presents to a User.**



- **Development of a discord bot which performs given functionalities using Events and Commands.**



- **Hosting the bot on Discord server and analyzing its working in real time.**



TOOLS AND TECHNOLOGY USED

DISCORD

Discord will be used to host our bot as it provides developers, with a platform where we get access to its functionalities using the discord.py library.

PYTHON

Here we have used python as a programming language as it is very dynamic language as it contains bunch of multipurpose in-built functions. It also contains multiple libraries and modules.

API

Here we have used APIs to fetch data directly from any websites server and use it in our project. API such as Google Cloud API etc. will be used in our project to fetch, sort and show the required information to the user.



Libraries

Python contains different libraries which makes our work easy and compact. Python libraries used in Milestone 3 are Discord & Random, and if required, more will be added. discord.py is a modern, easy to use, feature-rich, and async ready API wrapper for Discord.

FFmpeg

A complete cross platform solution/tool to record, convert and stream audio and video. This will be used for the development and implementation of the music bot.

GitHub

We have learnt and used GitHub for easy and flexible collaboration to complete the project. It allows one person to edit changes in the file and the same changes will be done in the file repository and one can directly fetch it from there.

Visual Studio Code

We have used VS Code as a compiler and source code editor as it helps to write our code fast and smooth. It automatically gives us recommendation when we type initials of a keyword. Also, we can directly push and fork our GitHub repository in it.



 devesh_jangir Today at 10:17 PM
!wiki Software Engineering

 Onyx BOT Today at 10:17 PM
Software engineering is a systematic engineering approach to software development. A software engineer is a person who applies the principles of software engineering to design, develop, maintain, test, and evaluate computer software. The term programmer is sometimes used as a synonym, but may also lack connotations of engineering education or skills. Engineering techniques are used to inform the software development process which involves the definition, implementation, assessment, measurement, management, change, and improvement of the software life cycle process itself. It heavily uses software configuration management which is about systematically controlling changes to the configuration, and maintaining the integrity and traceability of the configuration and code throughout the system life cycle.



 Prince Ahlawat Today at 9:33 PM
!img ISRO

 Onyx BOT Today at 9:33 PM
Here Your Image (for ISRO)


 Abhas Somvanshi Today at 20:17
!edit createvoicechannel happy

+ 🎁 Message #safodd 😞

20:17 22%
Its Fun 😊
Invite
new-text-channel
helo2
► New Voice Channel
► New1
► helo
► Hey DUDE 😊
► nandf
► happy ←
▼ TEXT CHANNELS
general
trial
safodd
tr
▼ VOICE CHANNELS
► General

17 17

Music Command

devesh_jangir 11/03/2022
!play kesariya

Onyx BOT 11/03/2022
Playing Kesariya - Brahmāstra | Ranbir Kapoor | Alia Bhatt | Pritam | Arijit Singh | Amitabh Bhattacharya 🎵

Daily Message Event

Onyx BOT 11/05/2022
Good Morning 😊



Help Command

devesh_jangir 11/05/2022
!help

Onyx BOT 11/05/2022

Commands
These are the Commands that you can use for this bot

!ping
This Command replies back with Pong whenever you write !ping.

!coinflip
This Command lets you flip a coin.

!rps
This Command allows you to play a game of rock paper scissors with the bot.

!show!/pic name
This Command shows the image of the given name.

!wiki name
This Command provide you the Wikipedia of the given name.

!greet
This Command greets the user.

!edit servername name
This Command changes the name of server to the given name.

!edit createvoicechannel name
This Command creates a voice channel of the given name.

!edit createtextchannel name
This Command creates a text channel of the given name.

Changing Server Name:

Hey Buddy 😊

general

new-text-channel
helo2
🔊 New Voice Channel
🔊 New1
🔊 helo
🔊 Hey DUDE 😊
🔊 nandf

TEXT CHANNELS

- # general
- # trial
- # safodd

VOICE CHANNELS

- General

devesh_jangir 10/15/2022

A wild Abhas Somvanshi appeared.
devesh_jangir 10/15/2022

!coinflip Heads

U1 Bot BOT 10/15/2022

It was Heads! You WON

devesh_jangir 10/15/2022

!editservername Hey Buddy 😊
!editcreatevoicechannel nandf

A wild Abhas Somvanshi appeared.
devesh_jangir 10/15/2022

Message #general

Its Fun 😊

general

new-text-channel
helo2
🔊 New Voice Channel
🔊 New1
🔊 helo
🔊 Hey DUDE 😊
🔊 nandf

TEXT CHANNELS

- # general
- # trial
- # safodd

VOICE CHANNELS

- General

!coinflip Heads

U1 Bot BOT 10/15/2022

It was Heads! You WON

devesh_jangir 10/15/2022

!editservername Hey Buddy 😊
!editcreatevoicechannel nandf

A wild Abhas Somvanshi appeared.
devesh_jangir 10/15/2022

October 29, 2022

devesh_jangir Today at 9:49 PM

!editservername Its Fun 😊

Message #general



EVENTS





We have also referred to some research papers from Google Scholar : -

1. https://www.researchgate.net/profile/Abhinand-Ganesh-2/publication/359791298_Study_on_the_Development_and_Implementation_of_Ubiqitous_Bots_for_the_Discord_Interface/links/625a8ebd4173a21a0d16e879/Study-on-the-Development-and-Implementation-of-Ubiqitous-Bots-for-the-Discord-Interface.pdf ---- By Abhinand Ganesh & Roshni Balasubramanian
2. https://d1wqtxts1xzle7.cloudfront.net/67276865/CSEIT2172100-with-cover-page-v2.pdf?Expires=1665766032&Signature=Ukdl~AnlviwkiNP27dB7jd6jwj1Y7nWJS-Tg5iMMd9JQORDVur0DdzBMRFd4DHcDc4ztPe1ldNkCu-jaBm2EW8JkobNHKfu0k6x8mwYclsQ6R1ZM~jHYdrf-TpjGRvR29RpaHkE8Y2~W8FTv7FYueqE7xX9iUDCS-GJAWZa8p~Bz4TlNXNar~2VFYPI4ezcuzDkJZP0y1-krh~rhL55rPSGSvQobCi4aqxekiegqAHTUzydsdr3OaPEu6L7QqE~5RRmYT-E6KB8C3e-dMbbuSSuf5Xukqf5E1PCspSZJ1ebjeSdp9VklwMr9zWCo4OZ45bDYIHxq79p-CgiVNDvQ__&Key-Pair-Id=APKAJLOHF5GGSLRBV4ZA ---- By Anirudh Verma, Shashikant Tyagi, Gauri Mathur

• We have taken help from the course ‘Develop Discord bots in Python’ Course by Alex from Udemy.



THANK YOU!!

IN THE FUTURE TECHNOLOGY IS DEVELOPING VERY FAST