Mini Project On

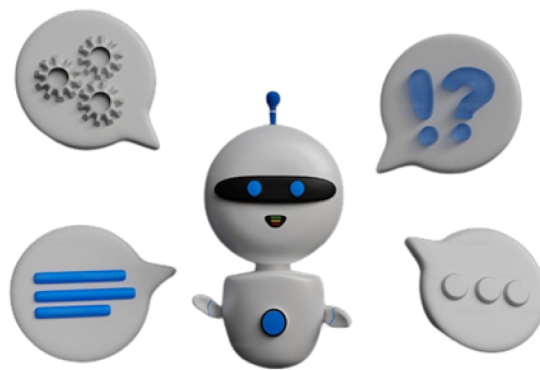# INNOVATIVE DATA MANAGEMENT IN
A TELEGRAM BOT APPROACH

User Guide.

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OBJECTIVE:

The objective of this Project is to create a Telegram bot that helps students and faculty to store and manage their data in an organized manner. The bot is designed to automate the process of data management and provide an easy-to-use interface for students and faculty to enter, edit, search, and delete their details. By doing so, the bot aims to improve the efficiency and accuracy of data management.
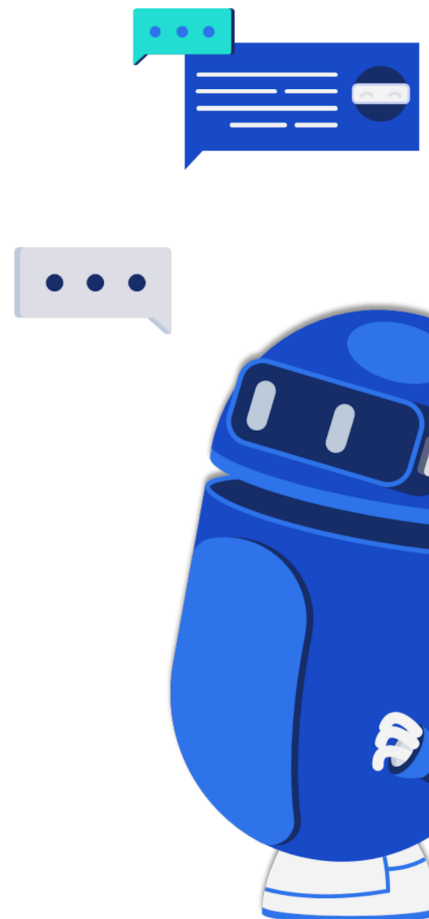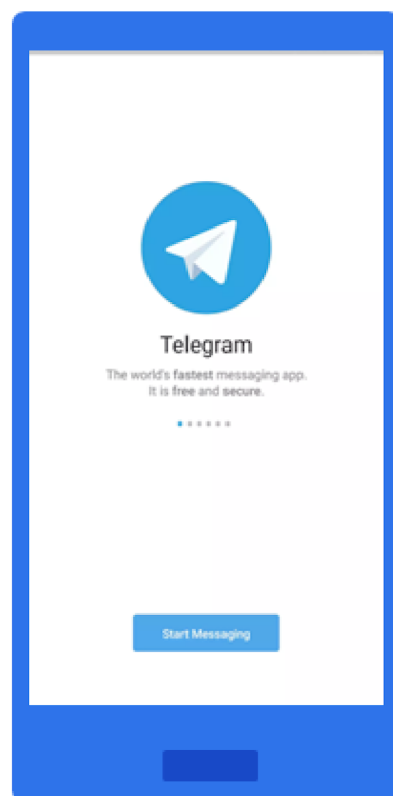

PROPOSED SYSTEM :

The proposed system aims to provide Faculty with an efficient and accessible way to access information about the students. The chat bot will be designed to answer questions related to the ALL DETAILS ABOUT THE PARTICULAR STUDENT. the chat bot will be able to understand and respond to user inquiries in real-time. The proposed system will be available 24/7, The chat bot will be able to retrieve data from a EXCEL SHEET database and display the information in a user-friendly format.

The chat bot can be accessed through the Telegram app, which is a widely used messaging platform that provides end-to-end encryption and is secure. Faculty members can use the chat bot to search for specific student information, and the chat bot will provide the relevant details in a matter of seconds.

ALGORITHM:

• Set up a Telegram bot using the python- telegram-bot library.

•Create an excel sheet to store student information.

• Write a function to collect student information from messages sent to the bot and store it in the excel sheet.

• Write a functions to search, edit, delete, for student details in the excel sheet based on the student's name or register number.

•Provide faculty password for the students information security.

• Set up a command handler for the bot to respond to faculty requests for student details by calling the search function and returning the results.
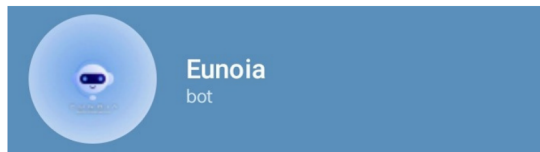
USER GUIDE:

Open telegram App, and search EunoiaSSEI_bot
or go with the qr code

The bot will be like this ,

simply click start,

the bot wil send welcome message, and then ask
user type.

there are two options

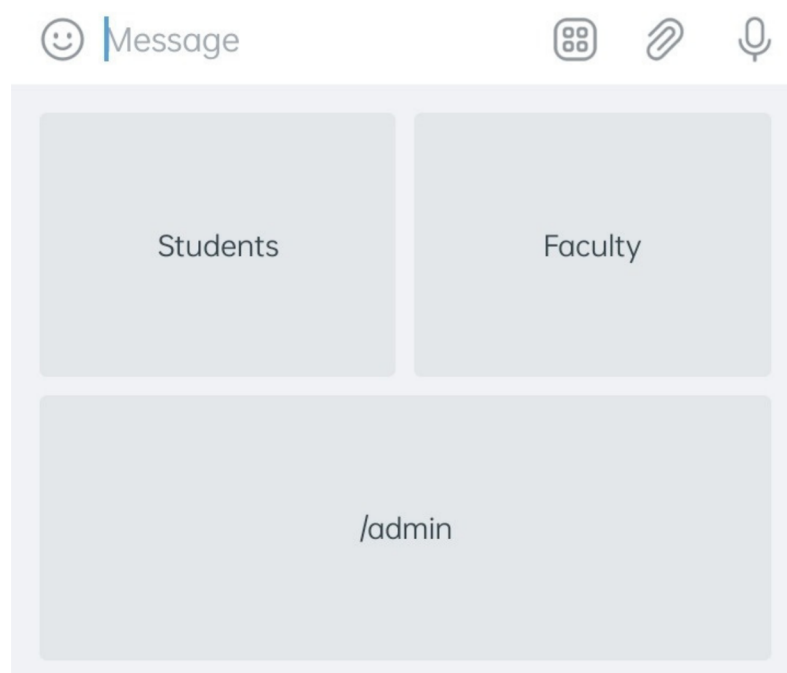1. Just Explore   2. SSEI

Please note that this bot has two levels of access: one for students and one for faculty members. Access to the bot is restricted and requires a password. Only those with the appropriate password will have full access to the bot's capabilities, while others will have limited access.

If you are a student at Shanmugha College or have the appropriate password, please proceed with the SSEI command. If you do not have the password but would like to explore the bot's capabilities, please use the 'Just Explore' command

his bot features a custom keyboard with three options:

 1. **Students, 2. Faculty, and 3. Admin**. The 'Students' option contains all commands relevant to students, while the 'Faculty' option contains all commands relevant to faculty members. The 'Admin' section is reserved for use by administrators only

Students can enter and delete their details, as well as receive updates uploaded by the admin. Student details are stored in an Excel sheet with proper headers.

Faculty members can search for student details, reset the sheet, retrieve the Excel sheet, delete information, and receive updates.

 The admin can upload and delete updates, as well as add or remove other admins using their Telegram user ID. Updates are stored in a JSON file and reset every 3 days.

Please note that access to the faculty section requires a faculty password, and the admin section is only accessible to admins.

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