PROJECT 1 REPORT

Topic 8:

WEEK 1

1. Telegram:
   1. Telegram service:

* Telegram App (clients): where people can chat, calling, creating group….
* Telegram Cloud: Saving messages, group data, users….
  1. Telegram API:
* Telegram Bot API: We create the bot to sending messages, managing group, getting information who chat with bot … (our methods)
* Telegram API (MTProto): For coder to create new app like telegram with lower interface
* Gateway API: Verifying by sending code directly to Telegram Messenger instead of SMS.

1. AirTable:
2. Define: 1. AirTable is a data management platform that combines a spreadsheet (like Excel/Google Sheets) and a database.
3. Why we using AirTable:

It’s easy to approach. You don’t need to write queries to extract the data or set up the database server like MySQL, PostgreSQL.

AirTable works as a cloud-base, that means the software or system can run or save on the Internet, you don’t have to download on your PC, access by the browser or API on online. The data was saved online and everywhere can access.

1. AirTable provide rest API, so we can:

* Create new recording
* Reading, processing data from the table
* Update or delete the recording
* Automatically with some services like Zapier or Integromat…

1. How the AirTable works?

* We create a base on AirTable, get the API key for verifying access and BaseID for log in to the base, then we give the data by API. For example, we create a table named “Message” with some attributes like “Sender”, “Reciever” , “Message\_Text”, “Timestamp”, when person A sending a message “Hi” to B at 3:00 am, the column “Sender” get “A”, also “Reciever” with “B”, “Message\_Text” with “Hi” and “Timestamp” with 3:00 am.

ROAD MAP:

1. Connect to Telegram Bot API:

* Register at BotFather.
* Get Bot Token

1. Connect to AirTable API:

* Create database on AirTable
* Get API key and Base ID from https://airtable.com/account.

1. Synchronize the data to AirTable

Advance functionality:

* Creating group
* Adding people to group
* Sending notice when synchronizing successfully

We get the username and token from the bot by using command for chatting with the BotFather.

