

Y2 Summer Task

Deadline for Submission: 16/05/2023, 23:59 PM

Send your Submission to fouad20@meet.mit.edu **and** loai17@meet.mit.edu

Your final outcome:

- You will build a *dynamic* web application combining all of the CS tools students will learn in Y2 summer!
- You will implement signing up, in & out users in your Flask app.
- As well as setting up a Firebase project.

Project Plan:

In this challenge, you will design and build a full-scale web application! that uses:

- Flask
- Firebase
- Bonus: APIs

Requirements:

Final Outcome:

- User Interactivity
- Uses Flask Framework
- Database implemented. (Using Firebase Authentication + Realtime Database)
- Bonus: Use an API (Choose one from the provided list)

APIs List (Optional):

- [BreezoMeter](#)
- [NASA API](#)
- [Waze](#)
- [Clarifai](#)
- [TLV Open Data](#)
- [Palestinian Open Data](#) - Please note* that this portal looks like it is in progress/incomplete.
- You can use external APIs as well, but it needs to be verified by Lead first.

Hypothetical Projects You could do! (To get your brain running)

- A web application that gives you live alerts of current fires in a selected area.
- A web application that finds you the most suitable available job.
- A web application that handles face recognition user credentials.
 - For example: This app provides other apps to be able to log in using face recognition!
- A barcode scanner application that finds and retrieves info about a product via its barcode.
- A web application that gives you information about weather and air quality, in a specified location.

Resources:

- [Firebase Authentication Lab](#)
- [Firebase Authentication](#)
- [Firebase Realtime Lab](#)
- [Firebase Realtime Database](#)