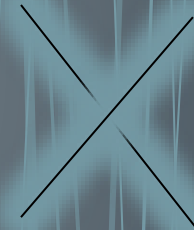# VACCINATION SLOT FINDER

Presented by:

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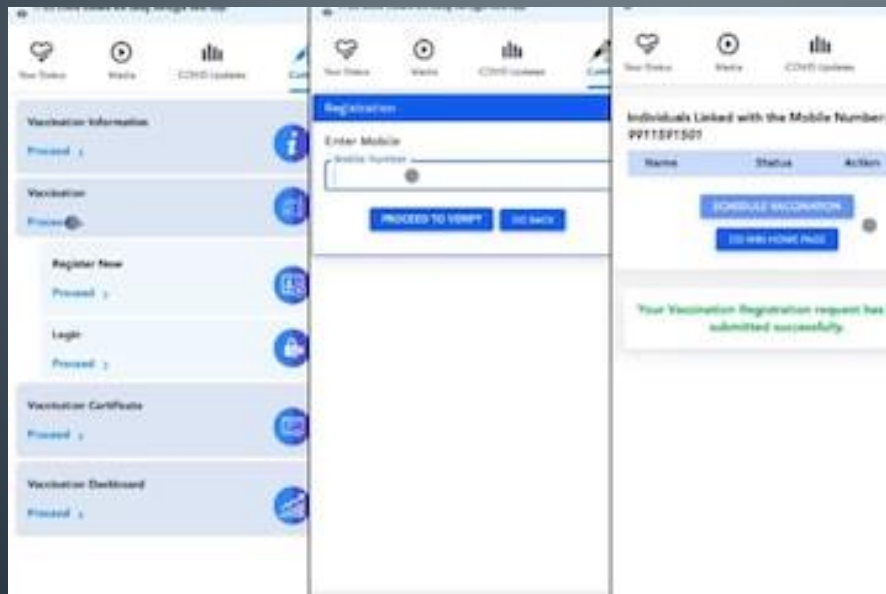
AGENDA

- Problem Statement
- Solution
- Setu API
- Understanding sample data
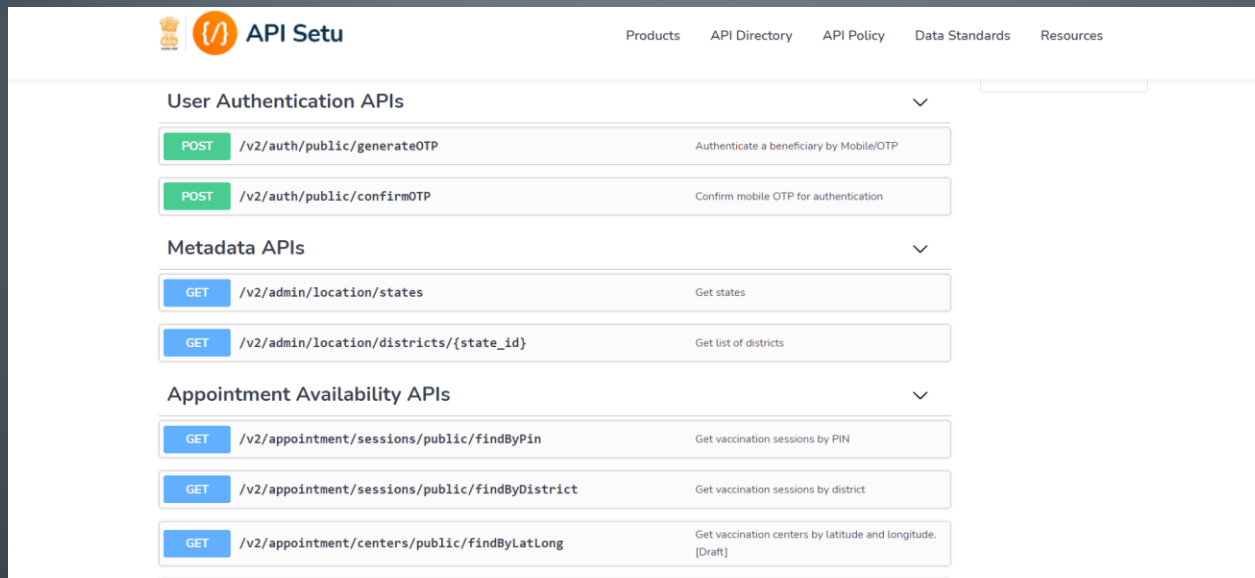- Using Setu API in python

Problem statement

- It has been a tough covid time and finding a vaccination center has been difficult

- The arogya setu app/Cowin website repeatedly prompts for OTP verification and doesn't return accurate results a times

SETU API

- This is the data provided by the government that is open to public.

- We can get data on the basis of state names, district names, pin codes etc

SETU API Sample Data

- In this case we are going to use the pin code and date
- Step 1: This is how it looks like when we use get by pin API

SETU API SAMPLE DATA

- Step 2: Give an example pin code

SETU API SAMPLE DATA

- Step 3: Copy and paste the link it gave in a new tab

cdn-api.co-vin.in/api/v2/appointment/sessions/public/findByPin?pincode=500072&date=13-06-2021

{"sessions":[{"center_id":730640,"name":"K RAHEJA CORP(Ankura)","address":"Kukatpally","state_name":"Telangana","district_name":"Medchal","block_name":"Balanagar","pincode":500072,"from":"09:00:00","to":"18:00:00","lat":17,"long":78,"fee_type":"Paid","session_id":"263e1bf1-4ebf-4cab-8e51-9e1be411e21a","date":"13-06-2021","available_capacity":0,"available_capacity_dose1":0,"available_capacity_dose2":0,"fee":"0","min_age_limit":18,"vaccine":"COVISHIELD","slots":["09:00AM-11:00AM","11:00AM-01:00PM","01:00PM-03:00PM","03:00PM-06:00PM"]},{"center_id":728533,"name":"EKIN CARE (Ankura Hsptl) KPHB","address":"EKIN CARE (Ankura Hsptl) KPHB","state_name":"Telangana","district_name":"Medchal","block_name":"Balanagar","pincode":500072,"from":"09:00:00","to":"18:00:00","lat":17,"long":78,"fee_type":"Paid","session_id":"edd72ca3-d862-4748-a16f-fb9e5eb3bc3e","date":"13-06-2021","available_capacity":0,"available_capacity_dose1":0,"available_capacity_dose2":0,"fee":"0","min_age_limit":45,"vaccine":"COVISHIELD","slots":["09:00AM-11:00AM","11:00AM-01:00PM","01:00PM-03:00PM","03:00PM-06:00PM"]},{"center_id":579162,"name":"Balanagar PHC CVC 2","address":"Balanagar","state_name":"Telangana","district_name":"Medchal","block_name":"Kukatpally","pincode":500072,"from":"10:00:00","to":"16:00:00","lat":17,"long":78,"fee_type":"Free","session_id":"d64faeae-38bb-4918-86dc-78f21589fa0b","date":"13-06-2021","available_capacity":0,"available_capacity_dose1":0,"available_capacity_dose2":0,"fee":"0","min_age_limit":45,"vaccine":"COVAXIN","slots":["10:00AM-11:00AM","11:00AM-12:00PM","12:00PM-01:00PM","01:00PM-04:00PM"]},{"center_id":730123,"name":"Black Canvas (Ankura HSPTL)","address":"JNTU Kukatpally","state_name":"Telangana","district_name":"Medchal","block_name":"Balanagar","pincode":500072,"from":"09:00:00","to":"18:00:00","lat":17,"long":78,"fee_type":"Paid","session_id":"d475a0ce-e7d0-4f65-982f-113572a7cf94","date":"13-06-2021","available_capacity":0,"available_capacity_dose1":0,"available_capacity_dose2":0,"fee":"0","min_age_limit":18,"vaccine":"COVISHIELD","slots":["09:00AM-11:00AM","11:00AM-01:00PM","01:00PM-03:00PM","03:00PM-06:00PM"]},{"center_id":728533,"name":"EKIN CARE (Ankura Hsptl) KPHB","address":"EKIN CARE (Ankura Hsptl) KPHB","state_name":"Telangana","district_name":"Medchal","block_name":"Balanagar","pincode":500072,"from":"09:00:00","to":"18:00:00","lat":17,"long":78,"fee_type":"Paid","session_id":"244c76c3-dd94-4999-b276-d7bcdb36ee85","date":"13-06-2021","available_capacity":0,"available_capacity_dose1":0,"available_capacity_dose2":0,"fee":"0","min_age_limit":18,"vaccine":"COVISHIELD","slots":["09:00AM-11:00AM","11:00AM-01:00PM","01:00PM-03:00PM","03:00PM-06:00PM"]},{"center_id":730123,"name":"Black Canvas (Ankura HSPTL)","address":"JNTU Kukatpally","state_name":"Telangana","district_name":"Medchal","block_name":"Balanagar","pincode":500072,"from":"09:00:00","to":"18:00:00","lat":17,"long":78,"fee_type":"Paid","session_id":"817ff43e-9aab-47c6-99b5-0f41452b6dd7","date":"13-06-2021","available_capacity":0,"available_capacity_dose1":0,"available_capacity_dose2":0,"fee":"0","min_age_limit":45,"vaccine":"COVISHIELD","slots":["09:00AM-11:00AM","11:00AM-01:00PM","01:00PM-03:00PM","03:00PM-06:00PM"]},{"center_id":730640,"name":"K RAHEJA CORP(Ankura)","address":"Kukatpally","state_name":"Telangana","district_name":"Medchal","block_name":"Balanagar","pincode":500072,"from":"09:00:00","to":"18:00:00","lat":17,"long":78,"fee_type":"Paid","session_id":"a5265044-5d71-4f36-8023-2bad37db8862","date":"13-06-2021","available_capacity":0,"available_capacity_dose1":0,"available_capacity_dose2":0,"fee":"0","min_age_limit":45,"vaccine":"COVISHIELD","slots":["09:00AM-11:00AM","11:00AM-01:00PM","01:00PM-03:00PM","03:00PM-06:00PM"]},{"center_id":593213,"name":"UHC Parvathnagar CVC 2","address":"Borabanda Parvathnagar","state_name":"Telangana","district_name":"Medchal","block_name":"Kukatpally","pincode":500072,"from":"10:00:00","to":"16:00:00","lat":17,"long":78,"fee_type":"Free","session_id":"9702ae84-a0b7-4867-ac50-af2dc701a19a","date":"13-06-2021","available_capacity":0,"available_capacity_dose1":0,"available_capacity_dose2":0,"fee":"0","min_age_limit":45,"vaccine":"COVAXIN","slots":["10:00AM-11:00AM","11:00AM-12:00PM","12:00PM-01:00PM","01:00PM-04:00PM"]}]}

Python code Explanation

- From Python we use requests module to connect with python

- We retrieve the data from Setu API

- When observed the setu API has returned data in the form of JSON which has key as "Sessions"

- So using the Key "Session" we are going to retrieve the values that is the details of the vaccinations centers as a list

- We are going to iterate through the list and return them in a prettier way