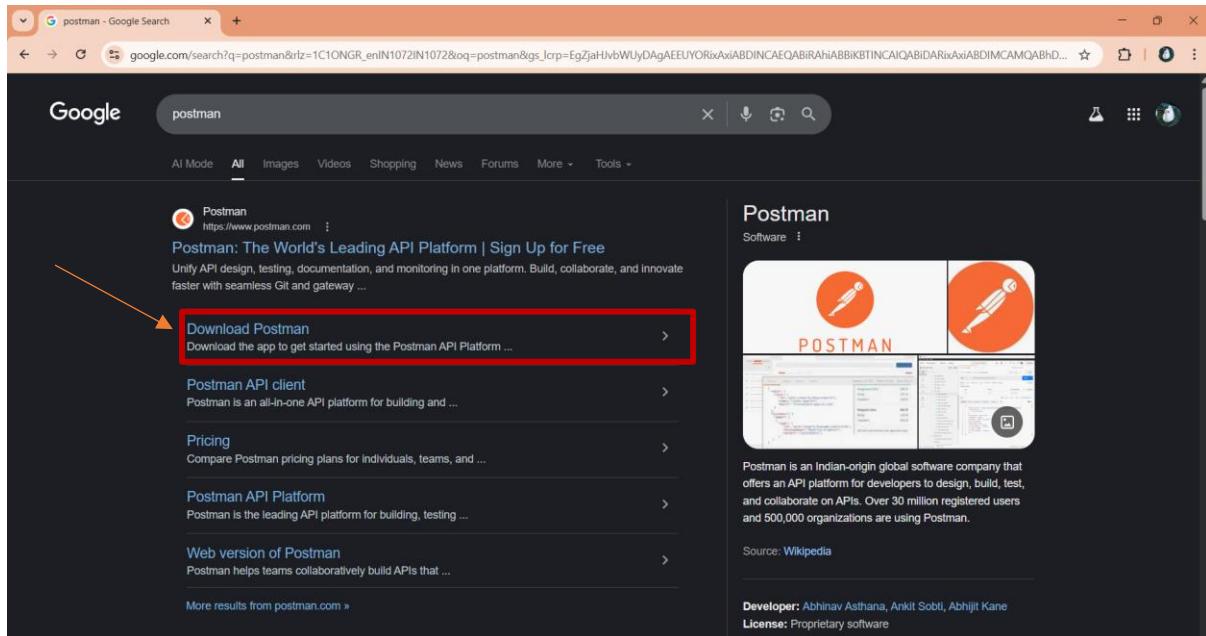


# LAB 9

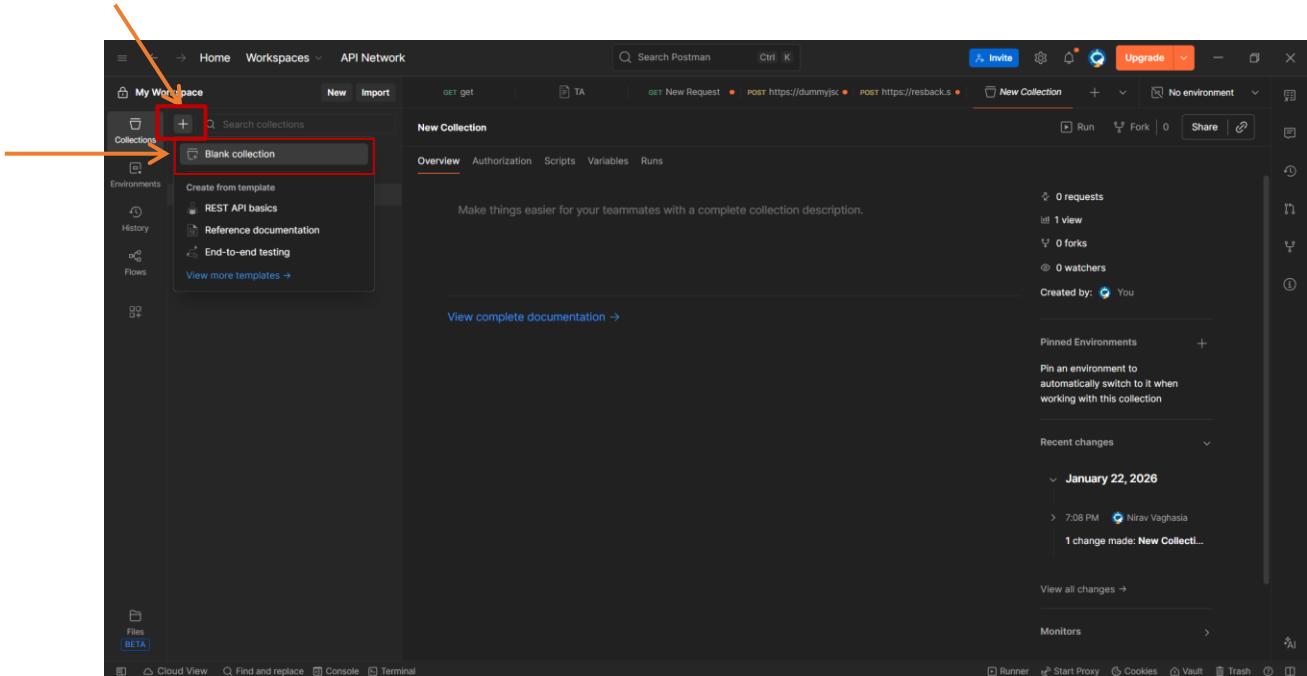
**Prepare API Document (Use POSTMAN tool to save API details).**  
**Maintain following information for each API.**

## Step 1 : Install Postman

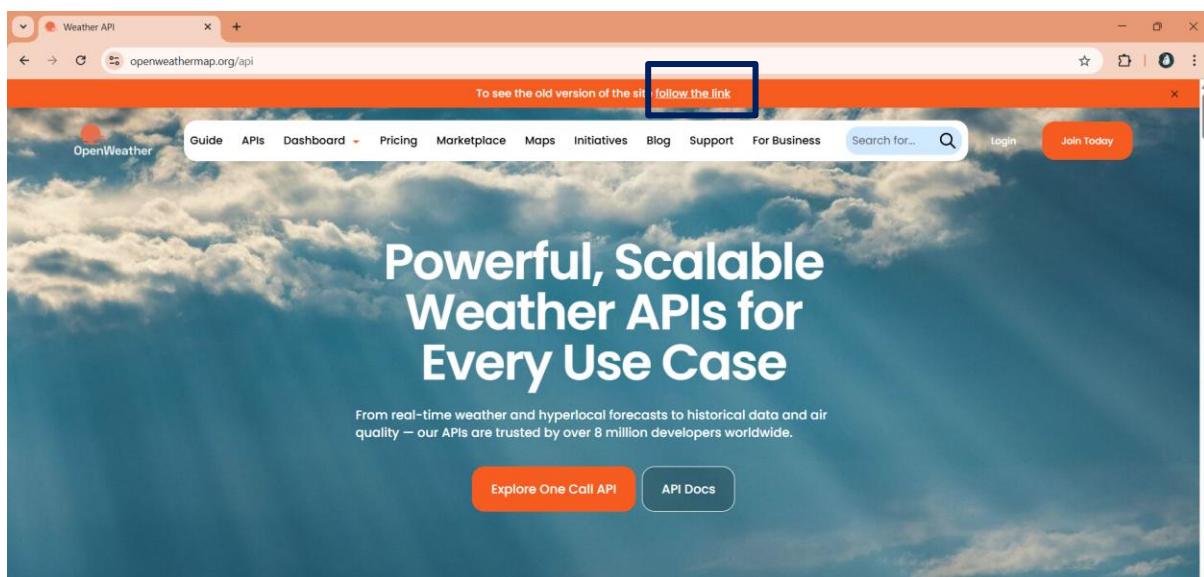


## Step 2 : Login or signup in postman after installation

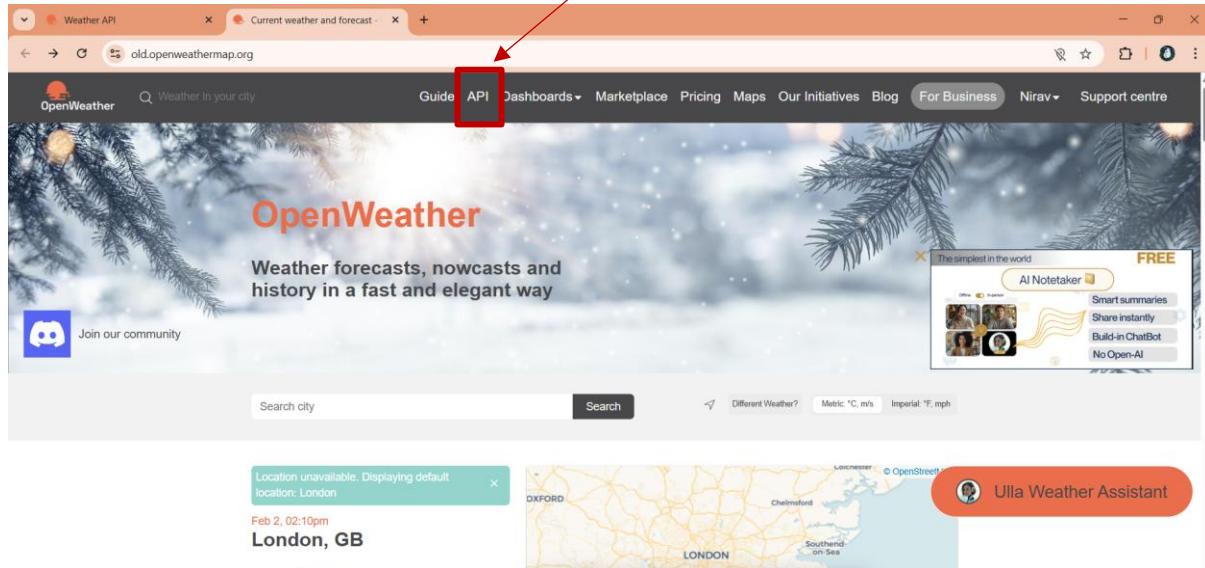
**Step 3 : Open Postman and create collection using + icon and select blank selection and Give the name of collection according to your choice and after create click on it.(you will see your collections from left sidebar)**



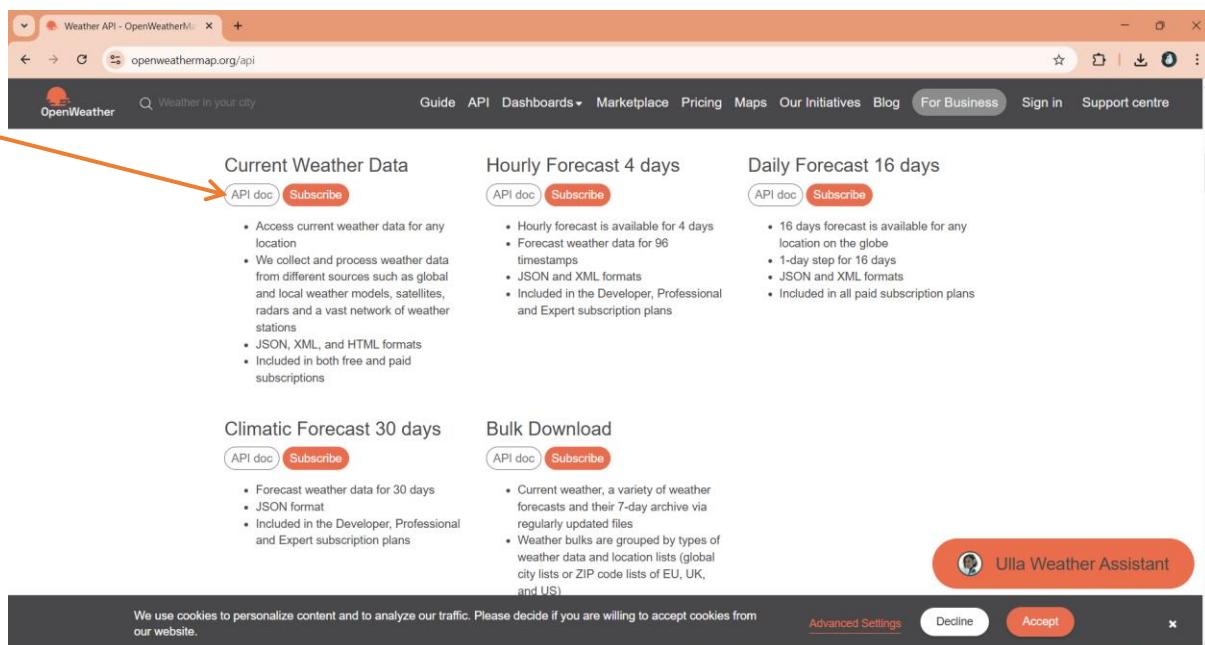
**Step 4 : Search “weather api” in google click on first website , follow the Old version of Weather API , and also **LOGIN/SignUp****



## Step5 : Click on API from navbar



## Step 6: after scroll down you see current weather data Click on “API DOC”

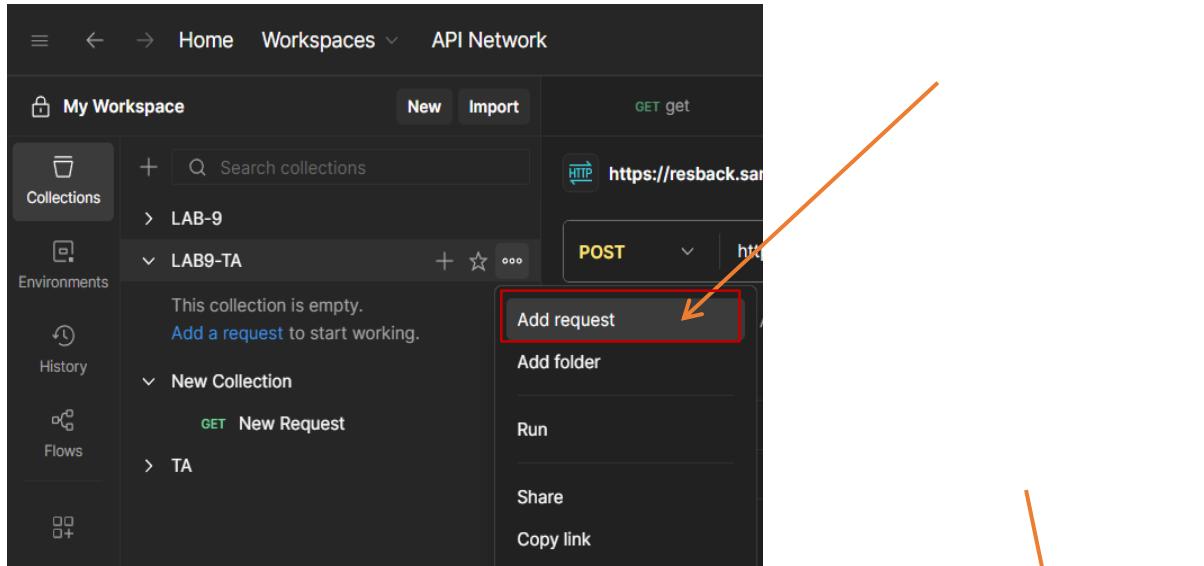


## Step7: Copy the highlighted text and paste it into postman overview

The screenshot shows the 'Current weather data' section of the OpenWeatherMap API documentation. A red box highlights the 'Product concept' section, which contains a brief description of the API's purpose and data sources. Below this, there are sections for 'Call current weather data', 'How to make an API call', and a code example for a GET request.

The screenshot shows the Postman application interface. On the left, the 'My Workspace' sidebar lists collections like 'LAB-9' and 'LAB9-TA'. The main area displays the 'Overview' tab for the 'LAB9-TA' collection. A red box highlights the 'Product concept' section, which mirrors the one from the OpenWeatherMap documentation. The right side of the screen shows various collection statistics and recent changes.

## Step 8 : Add new GET request from 3 dot → Add Request and copy Link from Website and paste it in Postman



### Product concept

Access current weather data for any location on Earth! We collect and process weather data from different sources such as global and local weather models, satellites, radars and a vast network of weather stations. Data is available in JSON, XML, or HTML format.

### Call current weather data

#### How to make an API call

##### API call

<https://api.openweathermap.org/data/2.5/weather?lat={lat}&lon={lon}&appid={API key}>



##### Parameters

lat	required	Latitude. If you need the geocoder to automatically convert city names and zip-codes to geo coordinates and the other way around, please use our <a href="#">Geocoding API</a>
lon	required	Longitude. If you need the geocoder to automatically convert city names and zip-codes to geo coordinates and the other way around, please use our <a href="#">Geocoding API</a>

## Step 9 : After paste in postman you will see a parameter in Params TAB... (lat , lon and appid)

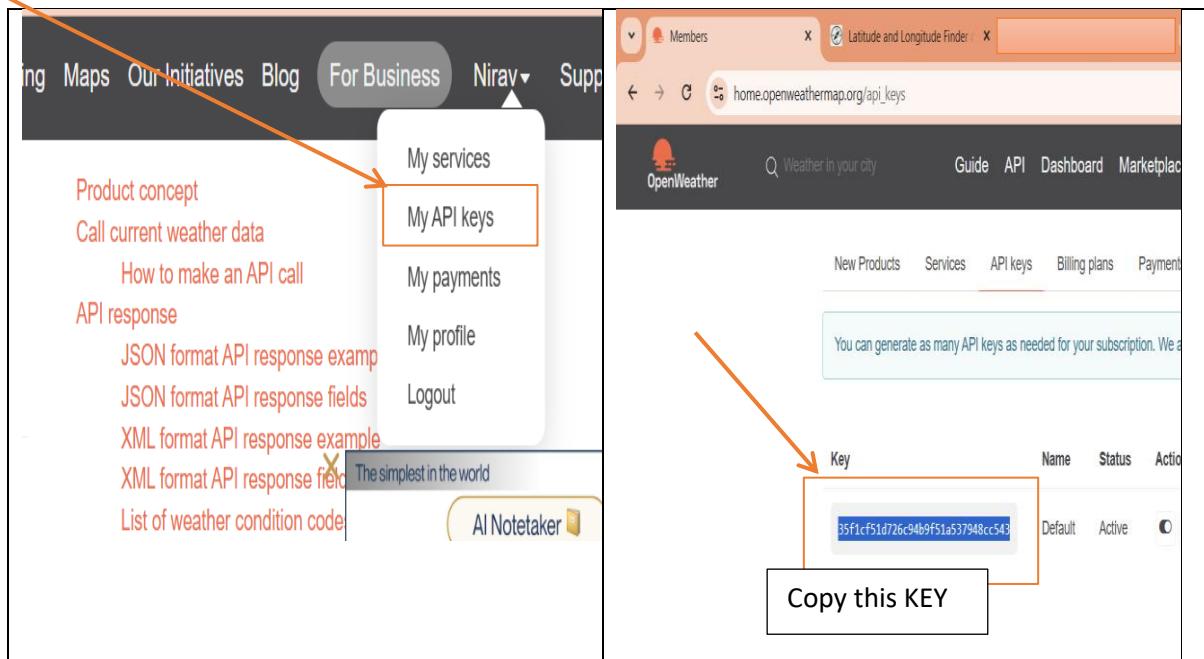
The screenshot shows the Postman interface with a red box highlighting the 'Params' tab. The 'Query Params' section contains four entries:

Key	Value	Description
Key	{Key}	
lat	{lat}	
lon	{lon}	
appid	{API key}	

## Step 10 : Get Current Latitude and Longitude from google from any website and Paste the value in postman in “VALUE” tab

The screenshot illustrates the workflow for obtaining coordinates. On the left, a browser window displays the 'Latitude and Longitude Finder' tool at latlong.net, with 'Rajkot' entered in the search field. An orange arrow points from this field to the right-hand Postman interface. The Postman interface shows the 'Params' tab selected, with the 'lat' and 'lon' fields populated with the values 22.303894 and 70.802162 respectively, corresponding to the coordinates of Rajkot.

## Step 11 : Get API key from weather API website and paste it in "appid" value



## Step 12 : Paste api key , and in description column copy from website and paste in postman.and click on save

The screenshot shows the 'Weather' endpoint documentation in Postman. The URL is <https://api.openweathermap.org/data/2.5/weather?lat={lat}&lon={lon}&appid={API key}>. The 'Parameters' section lists three required parameters: 'lat', 'lon', and 'appid'. The 'lat' and 'lon' descriptions are enclosed in a red box, while the 'appid' description is not. All descriptions provide information about geocoding and refer to the Geocoding API.

Parameter	Description
lat	Latitude. If you need the geocoder to automatically convert city names and zip-codes to geo coordinates and the other way around, please use our <a href="#">Geocoding API</a>
lon	Longitude. If you need the geocoder to automatically convert city names and zip-codes to geo coordinates and the other way around, please use our <a href="#">Geocoding API</a>
appid	Your unique API key (you can always find it on your account page under the "API key" tab)

After this click on save

Paste this from website

## Step 13 : Send Request and See response and save the response also

200 OK    250 ms    837 B    Save Response

```

1 {
2   "coord": {
3     "lon": 70.8022,
4     "lat": 22.3039
5   },
6   "weather": [
7     {
8       "id": 802,
9       "main": "Clouds",
10      "description": "scattered clouds",
11      "icon": "03d"
12    }
13  ],
14  "base": "stations",
15  "main": {
16    "temp": 294.33
17  }
18}

```

**Step 14 : Now Go on left sidebar click on your collection name**

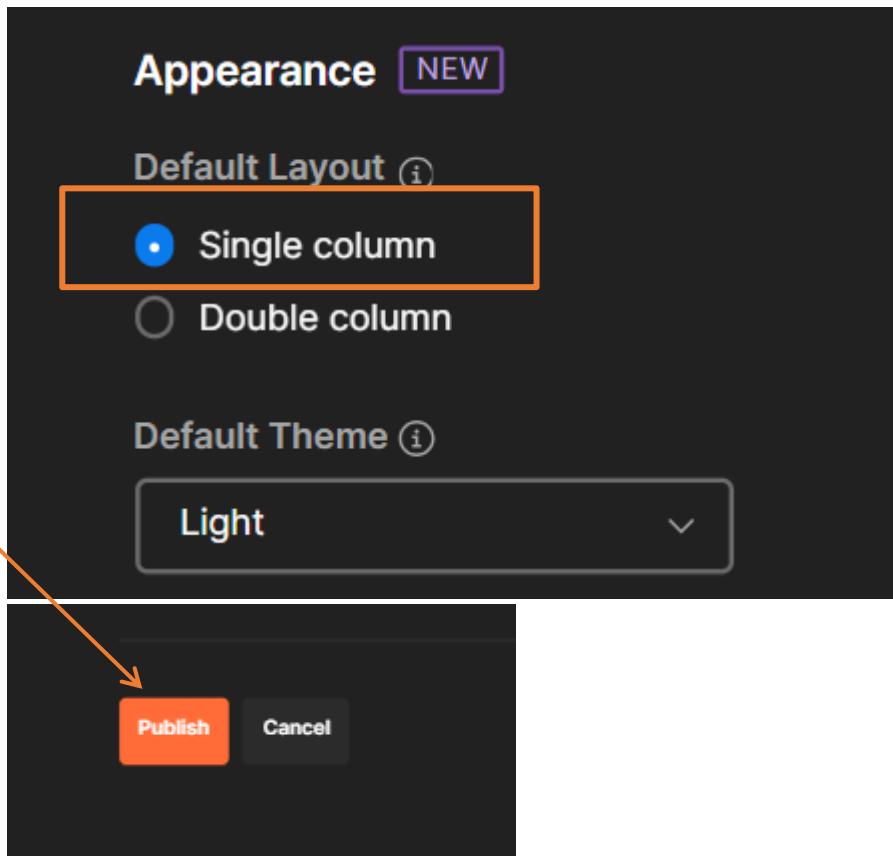
**And after that Click on View Documentation**

The image shows two side-by-side screenshots of the Postman application. On the left, the sidebar is visible with a search bar at the top and several collections listed: 'LAB-9' (with a plus icon), 'LAB9-TA' (which is expanded, showing its sub-items: 'GET New Request', 'e.g. New Request', and 'New Collection'), and 'TA'. An orange arrow points from the text 'Now Go on left sidebar click on your collection name' to the 'LAB9-TA' collection in the sidebar. On the right, the main window displays the 'LAB9-TA' collection's 'Overview' tab. It includes a 'Product concept' section with a brief description of weather data collection and processing, and a 'View complete documentation →' link. Another orange arrow points from the text 'Click on View Documentation' to this link.

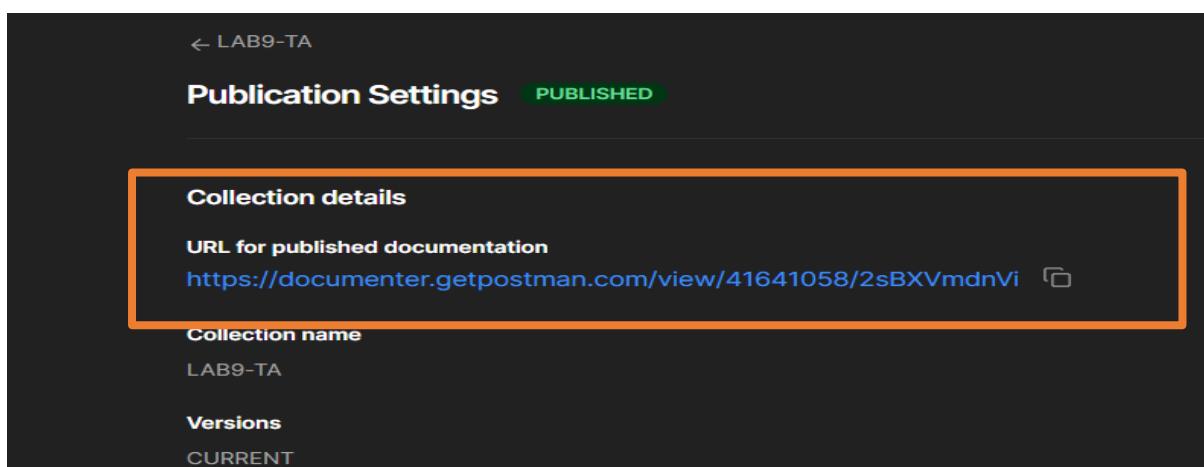
**Step 15 : Click on Publish**

This screenshot shows the 'LAB9-TA' collection details page in Postman. The top navigation bar includes 'Search Postman', 'Ctrl + K', 'Invite', 'Upgrade', and a 'Publish' button, which is highlighted with an orange box and an arrow pointing to it from the text 'Click on Publish'. Below the header, the collection name 'LAB9-TA' is displayed, along with 'Version CURRENT', 'Language Postman CLI', and a 'Jump To' section with 'Introduction' and a 'GET New Request' link. The main content area shows the 'Product concept' and the 'GET New Request' endpoint, including its URL and an 'Open request→' link. At the bottom, there are sections for 'Query Params' and 'Environment'. An orange arrow also points from the text 'Click on Publish' to the 'Publish' button in the header.

**Step 16 : You will redirect in chrome and Select “Single Radio Column” and click publish**



**Step 17 : You will see a Link , click on that and Ctrl+p to save PDF  
And save that PDF in your PC or laptop.**



**Now , Repeat same process for POST , PUT , DELETE ,  
Ignore the response in PUT and DELETE method just follow this  
process...**