**Running API:**

**pip install virtualenv**

**Creating virtual environment to run the app inside it:**

**cd prodiction**

**virtualenv venv**

**// بيئة منفصلة ومعزولة لتنزيل باكيجات داخلها**

**activating virtual environment:**

**venv\Scripts\activate**

**install the requirements:**

**pip install -r requirements.txt**

**Run the application:**

**python app.py**

**Send api requests from flatter application to flask application:**

**Type:** POST

**Endpoint:** <http://127.0.0.1:5000/predict>

**Payload: Json data for example:**

{

"muscle\_pain": "1",

"itching": "0",

"altered\_sensorium": "1",

"dark\_urine": "1",

"high\_fever": "1",

"mild\_fever": "1",

"family\_history": "0",

"nausea": "0",

"yellowing\_of\_eyes": "0",

"sweating": "0",

"unsteadiness": "1",

"chest\_pain": "1",

"fatigue": "1",

"abdominal\_pain": "1",

"joint\_pain": "0",

"diarrhoea": "1",

"lack\_of\_concentration": "0",

"red\_spots\_over\_body": "1",

"loss\_of\_appetite": "1",

"vomiting": "1",

"chills": "0",

"breathlessness": "1",

"bladder\_discomfort": "1",

"rusty\_sputum": "0",

"headache": "1",

"dischromic\_patches": "0",

"back\_pain": "0",

"cough": "0",

"receiving\_unsterile\_injections": "0",

"mucoid\_sputum": "0",

"red\_sore\_around\_nose": "1",

"stomach\_bleeding": "0",

"abnormal\_menstruation": "1",

"weight\_loss": "0",

"neck\_pain": "0",

"stomach\_pain": "1",

"internal\_itching": "0",

"muscle\_weakness": "0",

"coma": "0",

"continuous\_feel\_of\_urine": "0",

"passage\_of\_gases": "0",

"nodal\_skin\_eruptions": "0",

"spotting\_urination": "0",

"slurred\_speech": "0",

"polyuria": "1",

"blister": "0",

"movement\_stiffness": "1",

"blackheads": "0",

"pain\_behind\_the\_eyes": "1",

"swelled\_lymph\_nodes": "0"

}

deactivate

**The output is a json object include predicted disease and the advice for example:**

{

"advice": [

"Engage in low-impact exercises like swimming or yoga",

"Apply hot or cold packs to reduce pain and swelling",

"Take prescribed anti-inflammatory medications",

"Maintain a healthy weight to reduce joint stress"

],

"disease": "Arthritis"

}