Unit tests cases:

**1) User Registration**

url - http://127.0.0.1:8000/signup

parameters - {

"username":"meghnajain",

"password":"meghnajain@123"

}

Response -

"user": {

"id": 5,

"username": "meghnajain",

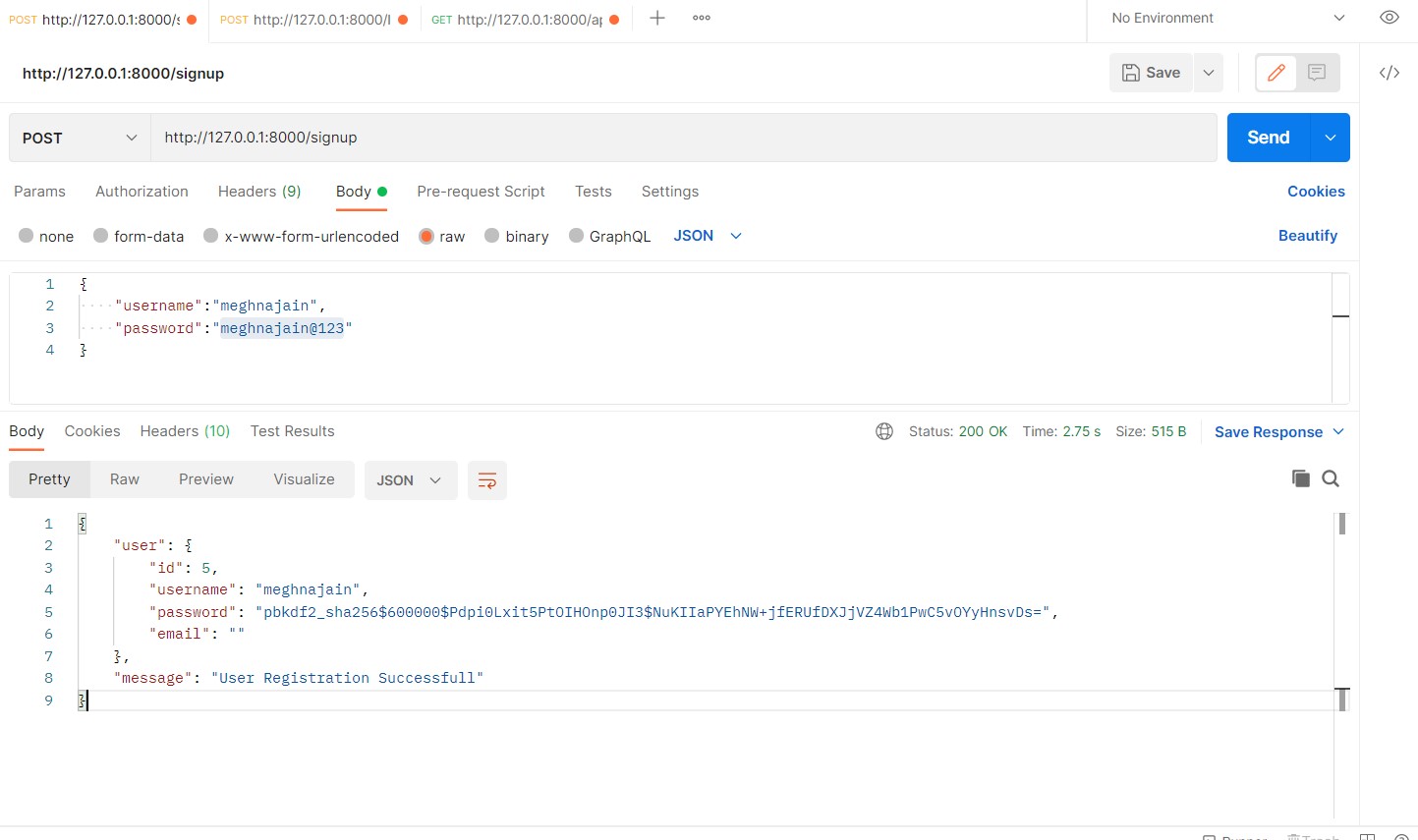
"password": "pbkdf2\_sha256$600000$Pdpi0Lxit5PtOIHOnp0JI3$NuKIIaPYEhNW+jfERUfDXJjVZ4Wb1PwC5vOYyHnsvDs=",

"email": ""

},

"message": "User Registration Successfull"

**Note - password hashing is used for security.**



**2) User Authentication**

url - http://127.0.0.1:8000/login

parameters - {

"username":"meghnajain",

"password":"meghnajain@123"

}

Response -

"token": "ddd1c31e555c82f9eb38545b8cea2ed5ec195cca",

"user": {

"id": 5,

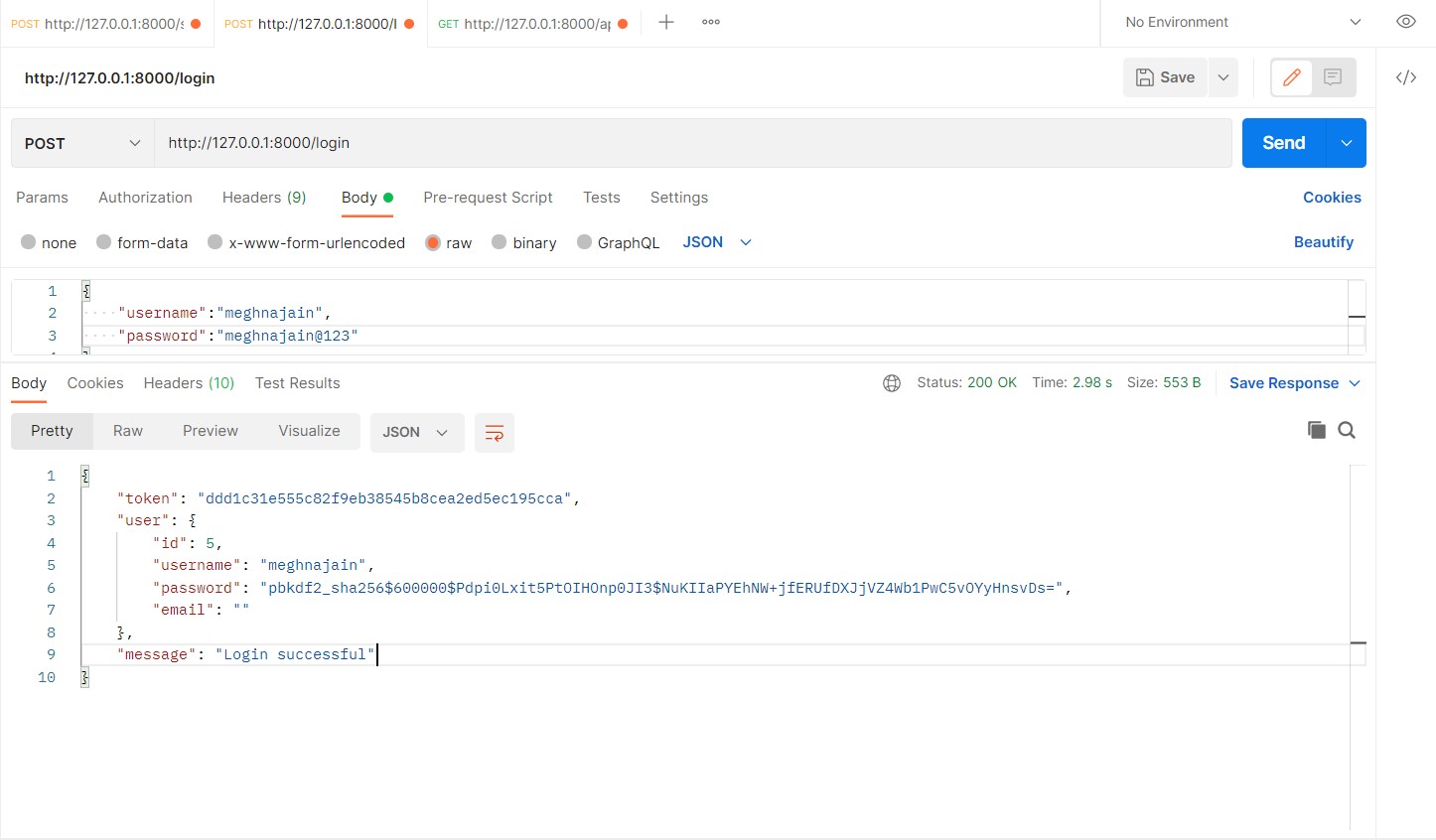
"username": "meghnajain",

"password": "pbkdf2\_sha256$600000$Pdpi0Lxit5PtOIHOnp0JI3$NuKIIaPYEhNW+jfERUfDXJjVZ4Wb1PwC5vOYyHnsvDs=",

"email": ""

},

"message": "Login successful"



**3) Token-based Authorization accessing the api:**

url - http://127.0.0.1:8000/app/historic-weather?latitude=52.52&longitude=13.41&numberofdays=10

parameters - {

"latitude": 52.52,

"longitude": 13.419998,

"numberofdays":10,

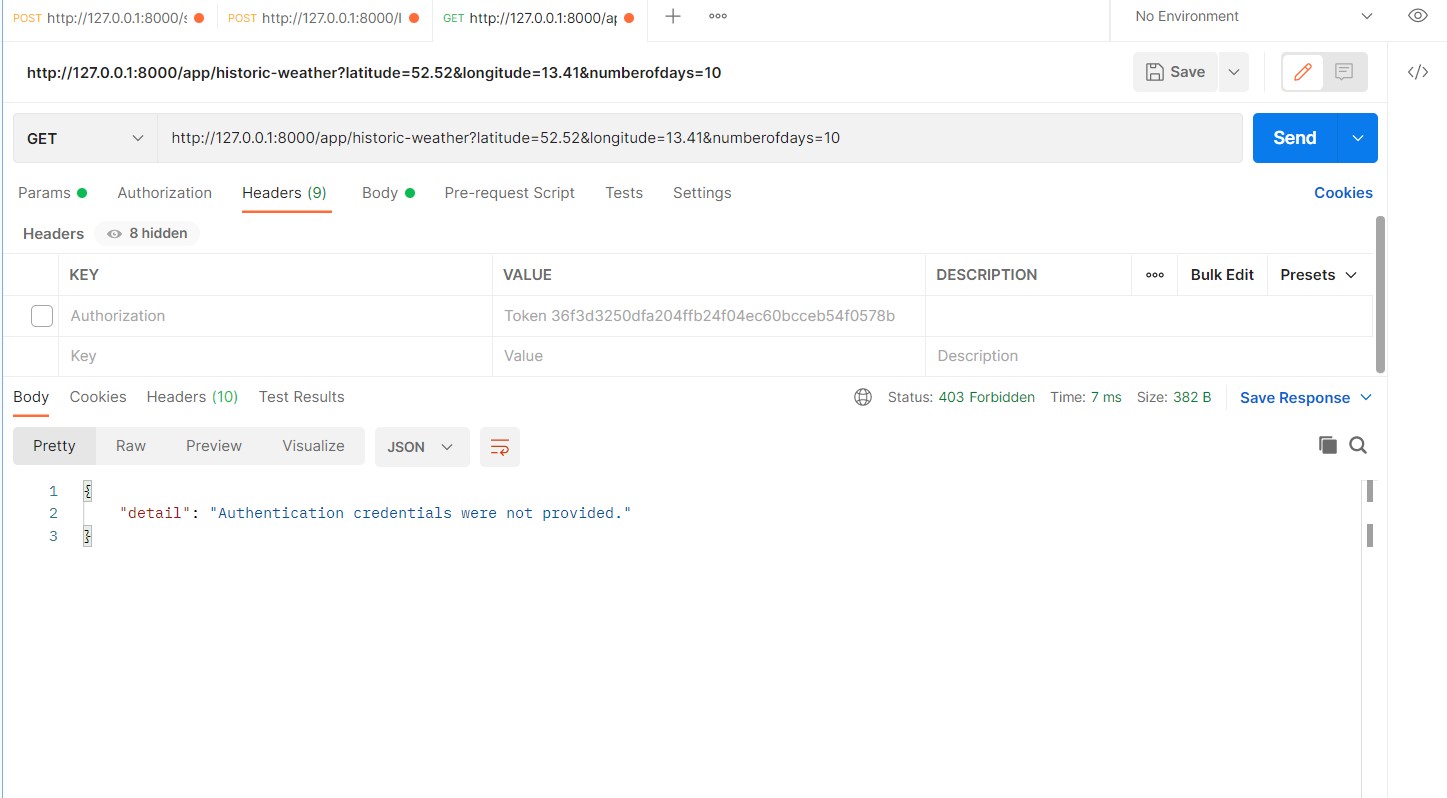
}

Response -

{

"detail": "Authentication credentials were not provided."

}



**4) API for Historic Weather Data:**

url - http://127.0.0.1:8000/app/historic-weather?latitude=52.52&longitude=13.41&numberofdays=10

parameters - {

"latitude": 52.52,

"longitude": 13.419998,

"numberofdays":10,

"Authorization": Token 36f3d3250dfa204ffb24f04ec60bcceb54f0578b

}

Response -

{

"latitude": 52.52,

"longitude": 13.419998,

"generationtime\_ms": 0.03600120544433594,

"utc\_offset\_seconds": 0,

"timezone": "GMT",

"timezone\_abbreviation": "GMT",

"elevation": 38.0,

"hourly\_units": {

"time": "iso8601",

"temperature\_2m": "°C"

},

"hourly": {

"time": [

"2024-01-03T00:00","2024-01-03T01:00","2024-01-03T02:00","2024-01-03T03:00",……….],

"temperature\_2m": [7.9,8.2,8.3,8.6,8.9]

}

}

