## Experiment no 07

Validating RESTful APIs using Postman.

```
Users > Lenovo > Desktop > jwt-auth-app > ♥ models.py > ...
    from werkzeug.security import generate_password_hash, check_password
    class User:
         def __init__(self, id, username, password, role='user'):
             self.id = id
             self.username = username
             self.password_hash = generate_password_hash(password)
             self.role = role
        def check_password(self, password):
             return check_password_hash(self.password_hash, password)
    # In-memory user store
    users = []
    user_id_counter = 1
oblems output debug console terminal
  from flask import Blueprint, request, jsonify
  from flask_jwt_extended import create_access_token
  from models import create_user, get_user_by_username
  auth_bp = Blueprint('auth', __name__)
  @auth_bp.route('/register', methods=['POST'])
  def register():
     data = request.get_json()
     username = data.get('username')
     password = data.get('password')
     role = data.get('role', 'user')
     if not username or not password:
         return jsonify({'message': 'Username and password required'}), 400
```

```
■ requirements.txt

               models.py
                          auth.py
                                      main.py
                                                 🕏 арр.ру

    postman_collection.json X ☑ TODG

 C: > Users > Lenovo > Desktop > jwt-auth-app > {} postman_collection.json > ...
       "info": {
        "name": "JWT Auth API Validation",
        "description": "Postman collection for validating the JWT authentication API endpoints",
        "schema": "https://schema.getpostman.com/json/collection/v2.1.0/collection.json'
          "name": "Register User",
          "request": {
           "method": "POST",
           "header": [
              "key": "Content-Type",
              "value": "application/json"

    powershell 
    ↑

 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
C: > Users > Lenovo > Desktop > 🗹 TODO.md > 🔤 # TODO: Implement JWT Auth
         # TODO: Implement JWT Authentication and User Roles
        - [x] Create project directory `jwt-auth-app`
        - [x] Create `requirements.txt` with necessary dependent
        - [x] Create `models.py` for User model with roles
        - [x] Create `auth.py` for authentication routes (regist
        - [x] Create `app.py` for main application setup
        - [x] Create `main.py` for protected routes with role ch
        - [x] Install dependencies using pip
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        - [x] Create Postman collection for API validation
         - [x] Run the Flask application and test endpoints
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  12
```



