Flask REST API Project

**Features:**

- JWT Authentication

- Error Handling

- File Uploading

- Public & Admin Routes

- CRUD Operations

**Folder Structure:**

flask\_rest\_api\_project/

app/

\_\_init\_\_.py

models.py

routes/

\_\_init\_\_.py

public\_routes.py

admin\_routes.py

utils/

\_\_init\_\_.py

error\_handlers.py

uploads/

instance/

.env

.gitignore

requirements.txt

run.py

README.md

**Setup Instructions:**

1. Clone or Download the Repository

git clone https://github.com/yourusername/flask\_rest\_api\_project.git

cd flask\_rest\_api\_project

**2. Create Virtual Environment**

python -m venv venv

**3. Activate the Environment**

**Windows:**

venv\Scripts\activate

**Mac/Linux:**

source venv/bin/activate

**4. Install Dependencies**

pip install -r requirements.txt

**5. Set Up Environment Variables**

Create a .env file in the project root and add:

DATABASE\_URI = sqlite:///site.db

\_SECRET\_KEY = supersecretkey

**6. Create the Database**

python

from run import app

from app import db

app.app\_context(). push()

db.create\_all()

exit ()

**7. Run the App**

python run.py

The app will run on http://127.0.0.1:5000

**API Endpoints**

**Public Routes**

| **Method** | **Endpoint** | **Description** |
| --- | --- | --- |
| GET | /items | Get all public items |

**Admin Routes (Authentication Required)**

| **Method** | **Endpoint** | **Description** |
| --- | --- | --- |
| POST | /admin/register | Register new user |
| POST | /admin/login | Login & get JWT token |
| GET | /admin/dashboard | Test protected route |
| POST | /admin/item | Create new item |
| PUT | /admin/item/<id> | Update an item |
| DELETE | /admin/item/<id> | Delete an item |
| POST | /admin/upload | Upload a file |

**File Upload Notes**

* **Allowed Types:** .png, .jpg, .jpeg, .pdf
* **Max File Size:** 2 MB
* **Uploads saved in:** /uploads directory

**Team Members**

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