Agenda For the Week:

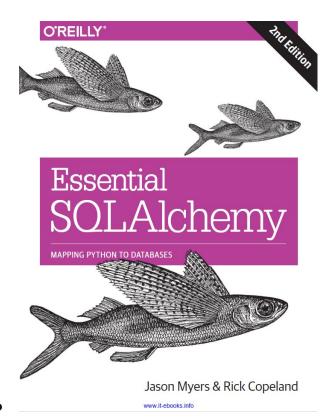
Build a CRUD flask API

GitHub Repo Link:

https://github.com/SarayuGautam/Flask-Crud-API

Related Readings:

- https://www.youtube.com/watch?v=PTZiDnuC86g
- https://realpython.com/flask-connexion-rest-api/



 $\underline{https://www.amazon.com/Essential-SQLAlchemy-Rick-Copeland/dp/0596516142} \end{figure} (Half-Finished)$

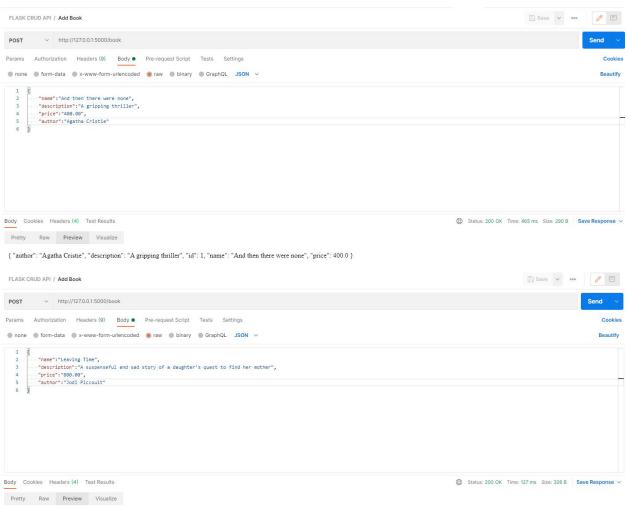
Incorporated Suggestion from last week + Solved what I was having trouble with last week:

- Made a separate file for dealing with the database.
- Used BluePrint to modularise my API
- Resolved the error because of circular import while using a different file for a different purpose
- Used SQLAlchemy along with MySQL as major database

Main Learning:

- 1. **Object Relational Mapper:** It is an interface that allows the programming language to interact with the database without having to write queries.
- 2. Just like there is mongoose ORM for MongoDB, SQLAlchemy is only an abstraction layer that works with multiple databases. Here I have made it to work with MySQL.
- 3. <u>Marshmallow</u> is a python package that is used for object Serialization and Description
- <u>pipenv</u> => very useful virtual environment package manager. Have used in this week's project
- pipenv shell => creates pipenv folder
- 4. To connect to a database, we need to create an SQLAlchemy engine. The SQLAlchemy engine creates a common interface to the database to execute SQL statements.

Related Screenshots:

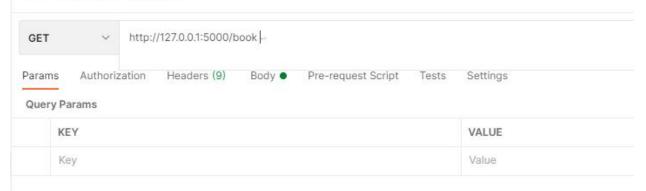


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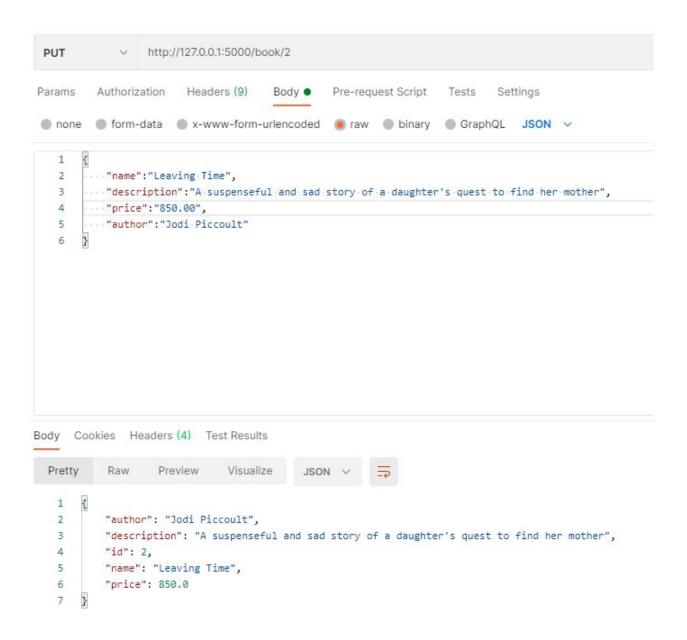




FLASK CRUD API / Get Books



```
Body Cookies Headers (4) Test Results
Pretty
         Raw
                Preview
                             Visualize
                                         JSON V
     [
 1
 2
 3
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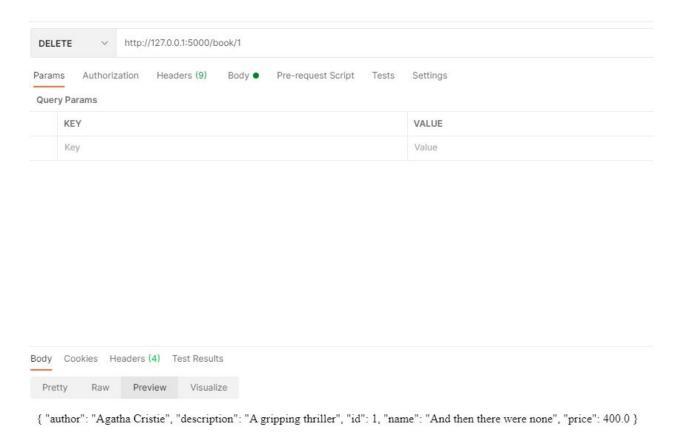


Fig: Figure showing request and response in Postman