Code Explanation

app.py

```
app = Flask(__name__)
cors = CORS(app, resources={r"*": {"origins": "*"}})
```

Here we initialize the flask application and add cors headers to solve API calling with javascript on a browser.

```
@app.route('/<name>')
def my_view_func(name):
    new_data=data(name)
    js = json.dumps(new_data)
    return js
```

here we setup a base link with a parameter to grab the book name in place of <name and then call the function data from db.py with the name as parameter and convert the new data grabbed into json and return it to the API caller.

```
if __name__ == '__main__':
    app.run()  # run our Flask app
```

Here we run the basic flask app

db.py

```
    mydb = mysql.connector.connect(
    host="sql4.freesqldatabase.com",
    user="sql4436660",
    password="CfS9zuyMbX",
    database="sql4436660"
    )
```

Here we initialize mysql connector with the connection info to the db.

```
mycursor = mydb.cursor()
sql = "SELECT * FROM books WHERE title REGEXP %s"
mycursor.execute(sql,['^'+title])
a=mycursor.fetchall()
```

Here we make a cursor and type a sql statement with regular expression and execute it and fetch all the data from db.

```
data=[]
for i in a:
        author=mycursor.execute("SELECT name FROM authors WHERE author_id=%s",[str(i[6])]
)
        author=mycursor.fetchall()

        data.append({
            'title': i[1],
            'pages': i[2],
            'publish_date': i[3],
            'rating': i[4],
            'price': i[5],
            'author': author[0][0],
        })
        return data
```

Here we loop over the grabbed data and store it in a dictionary and push the dictionary into a list and return the data.