

Docker Desktop

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A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

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	Name ↑	Image	Status	Port(s)	Last started	Actions
<input type="checkbox"/>	<div><div></div><div><a href="#">some_name</a></div><div>46eb20d4d573</div></div>	<a href="#">mysql</a>	Running		2 hours ago	<div><div></div><div></div><div></div></div>
<input type="checkbox"/>	<div><div></div><div><a href="#">some_name1</a></div><div>11b78c1c4c2a</div></div>	<a href="#">mysql</a>	Running		2 hours ago	<div><div></div><div></div><div></div></div>
<input type="checkbox"/>	<div><div></div><div><a href="#">awesome_gagarin</a></div><div>139cf67d94e8</div></div>	<a href="#">final5</a>	Running	<a href="#">5000:5000</a>	10 minutes ago	<div><div></div><div></div><div></div></div>

Showing 3 items

RAM 5.94 GB

Not connected to Hub

Containers - Docker Desktop

v4.18.0

fe.py > ...

```
1  from flask import Flask, render_template, request
2  import mysql.connector as m
3
4  # create a MySQL connection
5  mydb = m.connect(
6      host="172.29.0.2",
7      user="root",
8      password="root"
9  )
10
11 # create a database
12 mycursor = mydb.cursor()
13 mycursor.execute("CREATE DATABASE if not exists mydatabase")
14
15 # connect to the new database
16 mydb = m.connect(
17     host="172.29.0.2",
18     user="root",
19     password="root",
20     database="mydatabase"
21 )
22
23 # create a table in the database
24 mycursor = mydb.cursor()
25 mycursor.execute("CREATE TABLE if not exists students (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255),
26
27 # insert some sample data
28 mycursor = mydb.cursor()
29 sql = "INSERT INTO students (name, age) VALUES (%s, %s)"
30 val = ("John", 23)
```

fe.py > ...

```
30 val = ("John", 23)
31 mycursor.execute(sql, val)
32 val = ("Mary", 21)
33 mycursor.execute(sql, val)
34 val = ("Tom", 25)
35 mycursor.execute(sql, val)
36
37 mydb.commit()
38
39
40
41
42 app = Flask(__name__, template_folder=r'C:\Users\hp\Desktop\p1')
43
44
45
46 @app.route('/')
47 def index():
48     return render_template('index.html')
49
50 @app.route('/details', methods=['POST'])
51 def details():
52     # Get student name input from form
53     name = request.form['name']
54
55     # Connect to MySQL database
56     db = m.connect(
57         host='172.29.0.2',
58         user='root',
59         password='root',
```

fe.py > ...


```
59     password='root',
60     database='mydatabase'
61 )
62
63 # Execute SELECT query to get student details
64 cursor = db.cursor()
65 query = "SELECT name, age, id FROM students WHERE name=%s"
66 cursor.execute(query, (name,))
67 result = cursor.fetchone()
68
69 # Close database connection
70 db.close()
71
72 # Render student details in HTML template
73 return render_template('details.html', student=result)
74
75 if __name__ == '__main__':
76     app.run(debug=True)
77
```

<> index.html > ...

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  |   <title>Student Details</title>
5  </head>
6  <body>
7  |   <h1>Enter a student name:</h1>
8  |   <form action="/details" method="post">
9  |       <input type="text" name="name">
10 |       <input type="submit" value="Get Details">
11 |   </form>
12 </body>
13 </html>
14 |
```

<> details.html >  html >  body >  table >  tr

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>Student Details</title>
5  </head>
6  <body>
7    {% if student %}
8    <h1>Student Details for {{ student[0] }}</h1>
9    <table>
10     <tr>
11       <th>Name</th>
12       <th>Age</th>
13       <th>Grade Level</th>
14     </tr>
15     <tr>
16       <td>{{ student[0] }}</td>
17       <td>{{ student[1] }}</td>
18       <td>{{ student[2] }}</td>
19     </tr>
20   </table>
21   {% else %}
22   <h1>No student found with that name</h1>
23   {% endif %}
24 </body>
25 </html>
26
```

 dockerfile > ...

```
1  # Use an official Python runtime as a parent image
2  FROM python:3.11
3
4  # Set the working directory to /app
5  WORKDIR /app
6
7  # Copy the current directory contents into the container at /app
8  COPY . /app
9
10 # Install any needed packages specified in requirements.txt
11 RUN pip install --no-cache-dir -r requirements.txt
12
13 # Expose the port Flask app is running on
14 EXPOSE 5000
15
16 # Define environment variables for MySQL connection
17 ENV MYSQL_DATABASE=mydatabase
18 ENV MYSQL_HOST=some_name1
19 ENV MYSQL_USER=root
20 ENV MYSQL_PASSWORD=root
21
22 # Run the command to start the app
23 CMD ["python", "fe.py"]
24
```

≡ requirements.txt

```
1  Flask
2  mysql-connector-python
3
```



**Enter a student name:**

Tom

Get Details

# Student Details for Tom

Name	Age
Tom	25 3