Root ^

| GET | / Read Root | ∨ |

Greeting ^

| GET | /hello Say Hello | ∨ |

Items ^

| GET | /items/{item_id} Read Item | ∨ |

```
karthikeyan.r@dockervm01:~/Desktop/PyDocker$ sudo docker build -t karthi .
[sudo] password for karthikeyan.r:
Your password will expire in 14 days

[+] Building 15.7s (10/10) FINISHED                                              docker:default
 => [internal] load build definition from Dockerfile                                      0.0s
 => => transferring dockerfile: 416B                                                      0.0s
 => [internal] load metadata for docker.io/library/python:3.11-slim                       1.8s
 => [internal] load .dockerignore                                                         0.0s
 => => transferring context: 2B                                                           0.0s
 => [1/5] FROM docker.io/library/python:3.11-slim@sha256:1d6131b5d479888b43200645e03a78443c7157efbdb730e6b4812974  0.0s
 => [internal] load build context                                                         0.3s
 => => transferring context: 30.09MB                                                      0.2s
 => CACHED [2/5] WORKDIR /app                                                             0.0s
 => [3/5] COPY requirements.txt .                                                         0.2s
 => [4/5] RUN pip install --no-cache-dir -r requirements.txt                             12.4s
 => [5/5] COPY . .                                                                        0.4s
 => exporting to image                                                                    0.6s
 => => exporting layers                                                                   0.6s
 => => writing image sha256:c293ccbe39a8aca10ee7be1d1daceb8ca69fdd65426850d788b3b90be402b7c5  0.0s
 => => naming to docker.io/library/karthi                                                 0.0s
```

```
karthikeyan.r@dockervm01:~/Desktop/PyDocker$ sudo docker  run -d -p 8089:8000 karthi
Your password will expire in 14 days

e5b5c5d688b5b3dadf4195f4061a78e78ffe92bc2f3f1c31836af019d07b7bad
karthikeyan.r@dockervm01:~/Desktop/PyDocker$ _
```

Docker

```dockerfile
# Use official Python image
FROM python:3.11-slim

# Set working directory
WORKDIR /app

# Install dependencies
COPY requirements.txt .
RUN pip install --no-cache-dir -r requirements.txt

# Copy application code
COPY . .

# Expose FastAPI port
EXPOSE 8000

# Run FastAPI with uvicorn
CMD ["fastapi", "run", "main.py", "--port", "8000", "--host", "0.0.0.0"]
```