

The screenshot shows the VS Code interface with the EXPLORER pane on the left and the SEARCH pane below it. The EXPLORER pane shows the project structure for 'ECOMMERCE-BACKEND' with a subdirectory 'app' containing 'main.py', '.gitignore', 'app.log', 'docker-compose.yml', 'Dockerfile', 'ERD.png', 'image-1.png', 'image.png', and 'README.md'. The SEARCH pane shows a search for 'settings.' with a replace button and a search icon. The main editor pane shows the 'docker-compose.yml' file with the following content:

```
1 version: "3.8"
2
3 services:
4   fastapi:
5     build: .
6     container_name: fastapi_app
7     ports:
8       - "8000:8000"
9     environment:
10      - DATABASE_URL=postgresql+asyncpg://postgres:postgrespassword@db:5432/postgres
11      - SECRET_KEY=kj8SDVADJBHdVBjkbhvahdfnmbamsnfvam12j4bm12n3evmqvevnmwvrq
12      - ALGORITHM=HS256
13      - ACCESS_TOKEN_EXPIRE_MINUTES=180
14      - SMTP_SERVER=smtp.gmail.com
15      - SMTP_PORT=587
16      - EMAIL_FROM=none43478@gmail.com
17      - SMTP_PASSWORD=eqbfkqmpwktcaat
18     depends_on:
19       - db
20     volumes:
21       - ./app
22
23 db:
24   image: postgres:15
25   container_name: postgres_db
26   restart: always
27   environment:
28     POSTGRES_USER: postgres
29     POSTGRES_PASSWORD: postgrespassword
30     POSTGRES_DB: postgres
31   volumes:
32     - postgres_data:/var/lib/postgresql/data
```

The screenshot shows the VS Code interface with the EXPLORER pane on the left and the SEARCH pane below it. The EXPLORER pane shows the project structure for 'ECOMMERCE-BACKEND' with a subdirectory 'app' containing 'main.py', '.gitignore', 'app.log', 'docker-compose.yml', 'Dockerfile', 'ERD.png', 'image-1.png', 'image.png', and 'README.md'. The SEARCH pane shows a search for 'settings.' with a replace button and a search icon. The main editor pane shows the 'Dockerfile' file with the following content:

```
1 FROM python:3.11-slim
2
3 ENV PYTHONDONTWRITEBYTECODE 1
4 ENV PYTHONUNBUFFERED 1
5
6 WORKDIR /app
7
8 RUN apt-get update && apt-get install -y build-essential
9
10 COPY requirements.txt .
11 RUN pip install --upgrade pip && pip install --no-cache-dir -r requirements.txt
12
13 COPY . .
14
15 EXPOSE 8000
16
17 CMD ["uvicorn", "app.main:app", "--host", "0.0.0.0", "--port", "8000"]
18
```

```
#14 resolving provenance for metadata file
#14 DONE 0.0s
[+] Running 4/4
  ✓ ecommerce-backend-fastapi Built 0.0s
  ✓ Network ecommerce-backend_default Created 0.0s
  ✓ Container postgres_db Created 0.1s
  ✓ Container fastapi_app Created 0.1s
Attaching to fastapi_app, postgres_db
postgres_db |
postgres_db | PostgreSQL Database directory appears to contain a database; Skipping initialization
postgres_db |
postgres_db | 2025-08-25 06:10:18.295 UTC [1] LOG: starting PostgreSQL 15.14 (Debian 15.14-1.pgdg13+1) on x86_64-pc-linux-gn
u, compiled by gcc (Debian 14.2.0-19) 14.2.0, 64-bit
postgres_db | 2025-08-25 06:10:18.296 UTC [1] LOG: listening on IPv4 address "0.0.0.0", port 5432
postgres_db | 2025-08-25 06:10:18.296 UTC [1] LOG: listening on IPv6 address "::", port 5432
postgres_db | 2025-08-25 06:10:18.300 UTC [1] LOG: listening on Unix socket "/var/run/postgresql/.s.PGSQL.5432"
postgres_db | 2025-08-25 06:10:18.307 UTC [29] LOG: database system was shut down at 2025-08-25 06:10:05 UTC
postgres_db | 2025-08-25 06:10:18.314 UTC [1] LOG: database system is ready to accept connections
fastapi_app | INFO: Started server process [1]
fastapi_app | INFO: Waiting for application startup.
```

```
C:\Users\hp>docker exec -it postgres_db psql -U postgres -d postgres
psql (15.14 (Debian 15.14-1.pgdg13+1))
Type "help" for help.

postgres=# select * from users;
 id | name | email | hashed_password | role
----+-----+-----+-----+-----
  1 | string | user@example.com | $2b$12$.l9o39hJgV891FFpHo9yJ.jFgpYdts3IoDxE9iF9HkcV6Lyyf8BZq | admin
(1 row)

postgres=#
```

localhost:8000/docs

E-commerce API

1.0.0OAS 3.1

/openapi.json

Secure backend using JWT token auth

Authentication		
POST	/auth/signup	Add User
POST	/auth/signin	User Login
POST	/auth/refresh	Refresh
POST	/auth/forgot-password	Send Email
POST	/auth/reset-password	Reset Password