

Machine Learning Operations

Course Instructor

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Fall 2025



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Building Dockers image:

```
PS D:\FAST_ABDULLAH\7th-semester\VILOPS\Task-3> docker-compose up --build
time="2025-10-01T21:15:23+05:00" level=warning msg="D:\FAST_ABDULLAH\7th-semester\VILOPS\Task-3\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[*] Running 10/12
  database [██████████] 44.69MB / 110.2MB Pulling 14.4s
    ✓ 96996dc6effb Download complete 1.9s
    ✓ 44a3e3a1fd5 Download complete 1.2s
    ✓ 9ad163d2f668 Pull complete 1.2s
    ✓ e6152c8f8736 Pull complete 4.1s
    ✓ 72a7f1c8e7dc Pull complete 2.3s
    ✓ 53e8da224c75 Pull complete 3.9s
    ✓ 31e94184dc54 Download complete 1.4s
    ✓ def11f316cdb Download complete 1.0s
    - a9f7957a6bbc Downloading [=====] 40.89MB/106.4MB 9.8s
    ✓ 2b5c1992a5f8 Download complete 1.4s
    ✓ 9824c27679d3 Pull complete 2.0s
```

Docker Containers Running form:

```
PS D:\FAST_ABDULLAH\7th-semester\VILOPS\Task-3> docker-compose up --build
database-1 | 2025-10-01 16:30:01.760 UTC [1] LOG: database system is ready to accept connections
backend-1 |
backend-1 | > user-management-backend@1.0.0 start
backend-1 | > node server.js
backend-1 |
frontend-1 |
frontend-1 | > user-management-frontend@0.1.0 start
frontend-1 | > react-scripts start
frontend-1 |
backend-1 | Server running on port 5000
backend-1 | Connected to PostgreSQL database
frontend-1 | (node:25) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'setupMiddlew
ares' option.
frontend-1 | (Use 'node --trace-deprecation ...' to show where the warning was created)
frontend-1 | (node:25) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use the 'setupMiddl
ewares' option.
frontend-1 | Starting the development server...
frontend-1 |
frontend-1 | Compiled successfully!
frontend-1 |
```

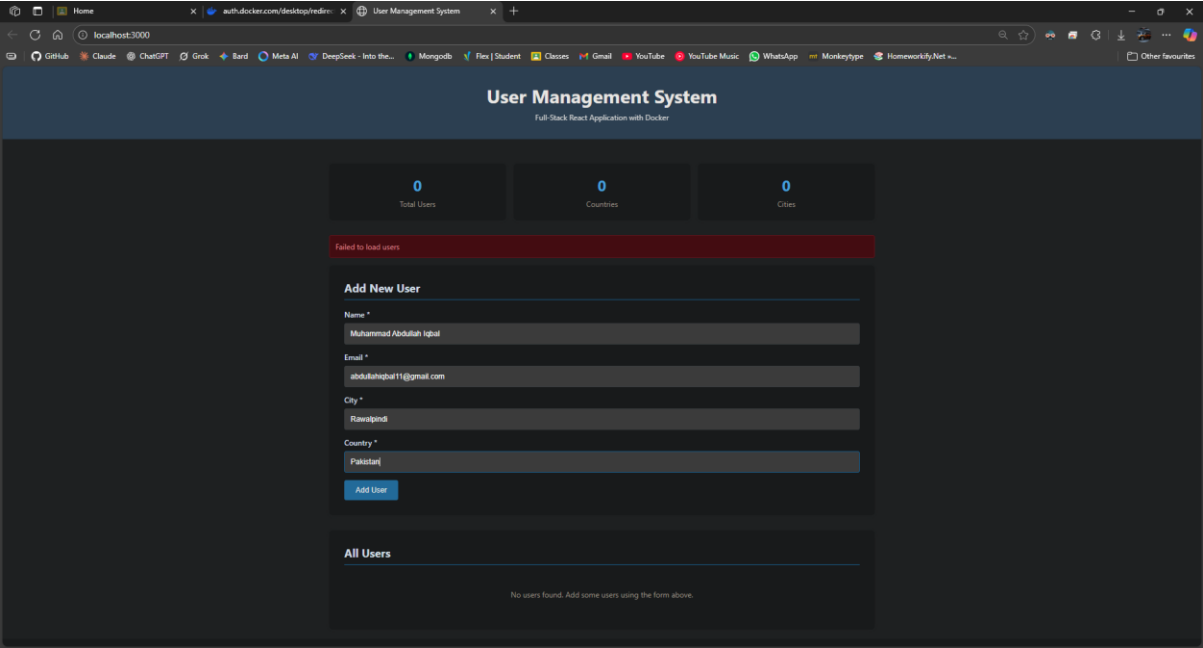
Before enabling watch:

```
PS D:\FAST_ABDULLAH\7th-semester\VILOPS\Task-3> docker-compose up --build
frontend-1 |
frontend-1 | Note that the development build is not optimized.
frontend-1 | To create a production build, use npm run build.
frontend-1 |
frontend-1 | webpack compiled successfully
frontend-1 | Proxy error: Could not proxy request /api/dashboard/summary from 10.0.2.2:3000 to http://localhost:5000.
frontend-1 | See https://nodejs.org/api/errors.html#errors_common_system_errors for more information (ECONNREFUSED).
frontend-1 |
frontend-1 | Proxy error: Could not proxy request /favicon.ico from localhost:3000 to http://localhost:5000.
frontend-1 | See https://nodejs.org/api/errors.html#errors_common_system_errors for more information (ECONNREFUSED).
frontend-1 |
frontend-1 | Proxy error: Could not proxy request /api/dashboard/summary from 10.0.2.2:3000 to http://localhost:5000.
frontend-1 | See https://nodejs.org/api/errors.html#errors_common_system_errors for more information (ECONNREFUSED).
frontend-1 |
frontend-1 | Proxy error: Could not proxy request /api/dashboard/summary from 10.0.2.2:3000 to http://localhost:5000.
frontend-1 | See https://nodejs.org/api/errors.html#errors_common_system_errors for more information (ECONNREFUSED).
frontend-1 |
[View in Docker Desktop] [View Config] [Enable Watch]
```

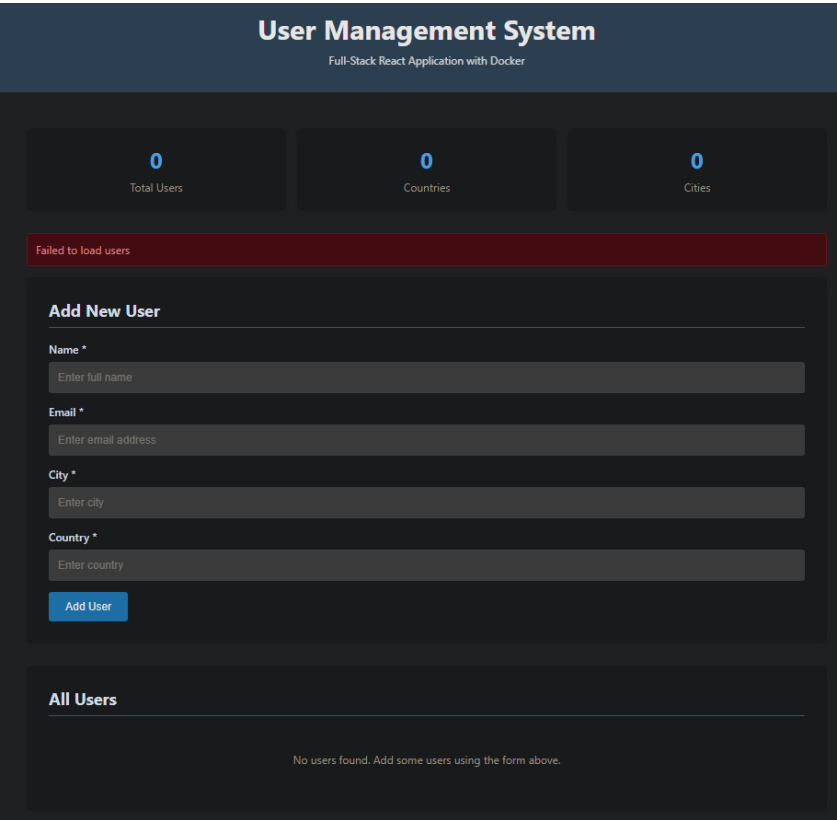
After enabling watch :

```
PS D:\FAST_ABDULLAH\7th-semester\VILOPS\Task-3> docker-compose up --build
frontend-1 |
frontend-1 | Proxy error: Could not proxy request /api/dashboard/summary from 10.0.2.2:3000 to http://localhost:5000.
frontend-1 | See https://nodejs.org/api/errors.html#errors_common_system_errors for more information (ECONNREFUSED).
frontend-1 |
frontend-1 | Proxy error: Could not proxy request /api/dashboard/summary from 10.0.2.2:3000 to http://localhost:5000.
frontend-1 | See https://nodejs.org/api/errors.html#errors_common_system_errors for more information (ECONNREFUSED).
frontend-1 |
time="2025-10-01T21:31:52+05:00" level=warning msg="path 'D:\\FAST_ABDULLAH\\7th-semester\\VILOPS\\Task-3\\backend' also declared by a bind mount volume, this path won't b
e monitored!\n"
time="2025-10-01T21:31:52+05:00" level=warning msg="path 'D:\\FAST_ABDULLAH\\7th-semester\\VILOPS\\Task-3\\frontend\\src' also declared by a bind mount volume, this path w
on't be monitored!\n"
time="2025-10-01T21:31:52+05:00" level=warning msg="path 'D:\\FAST_ABDULLAH\\7th-semester\\VILOPS\\Task-3\\frontend\\public' also declared by a bind mount volume, this pat
h won't be monitored!\n"
    Watch enabled
frontend-1 | Proxy error: Could not proxy request /api/dashboard/summary from 10.0.2.2:3000 to http://localhost:5000.
frontend-1 | See https://nodejs.org/api/errors.html#errors_common_system_errors for more information (ECONNREFUSED).
frontend-1 |
[View in Docker Desktop] [View Config] [Disable Watch]
```

No user added for now:



Failure to add a new user:



After adding a user (fix) using watch:

Table is shown:

Adding:

User Management System

Full-Stack React Application with Docker

0

Total Users

0

Countries

0

Cities

Failed to load users

Add New User

Name *

Muhammad Abdulah Iqbal

Email *

abdulahqbal11@gmail.com

City *

Rawalpindi

Country *

Pakistan

Add New User

All Users

No users found. Add some users using the form above.

New user added:

Employee Management System

Full-Stack React Application with Docker

1

Total Users

1

Countries

1

Cities

User added successfully!

Add New User

Name *

Enter full name

Email *

Enter email address

City *

Enter city

Country *

Enter country

Add User

All Users (1)

ID	Name	Email	City	Country	Created At	Actions
3	Abdulah	abdulahqbal1133@gmail.com	Rawalpindi	Pakistan	Oct 1, 2023, 10:03 PM	Delete

Changing UI to ensure watch is working:

Before: header:

User Management System

Full-Stack React Application with Docker

```
frontend-1 | Compiling...  
frontend-1 | Compiled successfully!  
frontend-1 | webpack compiled successfully  
█
```

Employee Management System

Full-Stack React Application with Docker

Works!!!