

Troubleshooting Guide

If I run into any issues, I will check the following:

1. **Port Conflicts:** If any port is already in use, I will change the port mapping in docker-compose.yml.
2. **Database Connection Issues:** I will check if the database container is running and verify the backend logs:

```
C:\Users\Melat\Desktop\fullstack-todo-list>docker-compose logs backend
time="2025-03-13T19:50:25+03:00" level=warning msg="C:\\Users\\Melat\\Desktop\\fullstack-todo-list\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
backend-1 |
backend-1 | > backend@1.0.0 start
backend-1 | > node index.js
backend-1 |
backend-1 | Server is running on http://localhost:3000
backend-1 | Connected to MongoDB
C:\Users\Melat\Desktop\fullstack-todo-list>
```

3. Containers Not Starting

If any container fails to start, I will check its logs with:

```
C:\Users\Melat\Desktop\fullstack-todo-list>docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
9800b3d6ea88   fullstack-todo-list-frontend        "docker-entrypoint.s..." 5 minutes ago   Up 5 minutes   0.0.0.0:5173->5173/tcp             fullstack-todo-list-frontend
d-1           9f966d85713f   fullstack-todo-list-backend        "docker-entrypoint.s..." 5 minutes ago   Up 5 minutes   0.0.0.0:3000->3000/tcp             fullstack-todo-list-backend
b7bb35ea817d   fullstack-todo-list-database        "docker-entrypoint.s..." 5 minutes ago   Up 5 minutes   0.0.0.0:27017->27017/tcp           mongodb_container
C:\Users\Melat\Desktop\fullstack-todo-list>
```

```
C:\Users\Melat\Desktop\fullstack-todo-list>docker logs mongodb_container
{"t":{"$date":"2025-03-13T16:45:55.472+00:00"},"s":"I",  "c":"CONTROL",  "id":23285,   "ctx":"main", "msg":"Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
{"t":{"$date":"2025-03-13T16:45:55.472+00:00"},"s":"I",  "c":"CONTROL",  "id":5945603, "ctx":"main", "msg":"Multi threading initialized"}
{"t":{"$date":"2025-03-13T16:45:55.484+00:00"},"s":"I",  "c":"NETWORK",  "id":4648601, "ctx":"main", "msg":"Implicit TCP FastOpen unavailable. If TCP FastOpen is required, set at least one of the related parameters":{"relatedParameters":{"tcpFastOpenServer","tcpFastOpenClient","tcpFastOpenQueueSize"}}}
{"t":{"$date":"2025-03-13T16:45:55.486+00:00"},"s":"I",  "c":"NETWORK",  "id":4915701, "ctx":"main", "msg":"Initialized wire specification","attr":{"spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":25},"incomingInternalClient":{"minWireVersion":0,"maxWireVersion":25},"outgoing":{"minWireVersion":6,"maxWireVersion":25},"isInternalClient":true}}}
{"t":{"$date":"2025-03-13T16:45:55.488+00:00"},"s":"I",  "c":"TENANT_M",  "id":7891600, "ctx":"main", "msg":"Starting TenantMigrationAccessBlockerRegistry"}
{"t":{"$date":"2025-03-13T16:45:55.489+00:00"},"s":"I",  "c":"CONTROL",  "id":4615611, "ctx":"initandlisten","msg":"MongoDB starting","attr":{"pid":1,"port":27017,"dbPath":"/data/db","architecture":"64-bit","host":"b7bb35ea817d"}}
{"t":{"$date":"2025-03-13T16:45:55.489+00:00"},"s":"I",  "c":"CONTROL",  "id":23403,   "ctx":"initandlisten","msg":"Build Info","attr":{"buildInfo":{"version":"8.0.5","gitVersion":"cb9e2e5e552ee39deale39d7859336456d0c9820","opensslVersion":"OpenSSL 3.0.13 30 Jan 2024","modules":[],"allocator":"tcmalloc-google","environment":{"distmod":"ubuntu2404","distarch":"x86_64","target_arch":"x86_64"}}}}
{"t":{"$date":"2025-03-13T16:45:55.489+00:00"},"s":"I",  "c":"CONTROL",  "id":51765,   "ctx":"initandlisten","msg":"Operating System","attr":{"os":{"name":"Ubuntu","version":"24.04"}}}
{"t":{"$date":"2025-03-13T16:45:55.489+00:00"},"s":"I",  "c":"CONTROL",  "id":21951,   "ctx":"initandlisten","msg":"Options set by command line","attr":{"options":{"net":{"bindIp":"*"}}}}
{"t":{"$date":"2025-03-13T16:45:55.492+00:00"},"s":"I",  "c":"STORAGE",  "id":22270,   "ctx":"initandlisten","msg":"Storage engine to use detected by data files","attr":{"dbPath":"/data/db","storageEngine":"wiredTiger"}}
{"t":{"$date":"2025-03-13T16:45:55.492+00:00"},"s":"I",  "c":"STORAGE",  "id":22297,   "ctx":"initandlisten","msg":"Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem","tags":["startupWarnings"]}
```

4. Checking Network Issues

I will make sure all containers are on the same network (app_network).