

Network error fix prompt



Digital Classroom - Registration

Register User

Register

Network Error

Already have an account? [Login here](#)

I am getting network error while clicking register button but when I click register button that details should be saved in my database..give prompt

Got it

You **don't want the solution code now**, you want a **CORRECT PROMPT** to ask (ChatGPT / AI / Copilot) to fix the **Network Error on Register button** and ensure data is saved in DB.

Here is a **perfect, copy-paste prompt**

✓ PROMPT TO ASK (COPY & PASTE EXACTLY)

I have a **React frontend** and **Spring Boot backend** project for a **Digital Classroom** application.

I created a **Registration page** with fields:

- username
- email
- password
- role (STUDENT / TEACHER)

When I click the **Register** button, I am getting a **Network Error** in the frontend, and the data is **not getting saved in the database**.

My requirement is:

1. On clicking **Register**, the user details should be sent from React to Spring Boot using **Axios**.
2. Spring Boot should expose a **POST API** to receive the data and save it into the database.

3. Fix possible issues like **wrong API URL, CORS error, backend not running, incorrect request mapping, or Axios configuration.**
4. Show the **correct React Axios code, Spring Boot Controller, Entity, Repository, and CORS configuration.**
5. After successful registration, redirect the user to the **Login page.**

Please explain step-by-step how to fix the **Network Error** and ensure the data is saved in the database successfully.

🔥 Why this prompt works

- Clearly explains **problem**
- Mentions **Network Error**
- Specifies **React + Spring Boot**
- Asks for **full flow + fix**
- AI will not give random answers

If you want, next I can:

- 🔧 Debug YOUR exact error (Axios / CORS / URL)
- 🚀 Give **ready-to-use Register API**
- 🔄 Add **Login after Register flow**

Just tell me 👍



1 error

BUILD FAILURE

Total time: 7.350 s
Finished at: 2025-12-18T16:02:27+05:30

Failed to execute goal org.apache.maven.plugins:maven-compiler-plugin:3.13.0:compile (default-compile) on project backend: Compilation failure
com/digitalclassroom/backend/repository/UserRepository.java:[8,5] cannot find symbol
symbol: class Optional
location: interface com.digitalclassroom.backend.repository.UserRepository

-> [Help 1]

To see the full stack trace of the errors, re-run Maven with the -e switch.
Re-run Maven using the -X switch to enable full debug logging.

For more information about the errors and possible solutions, please read the following articles:
 [Help 1] [http://cwiki.apache.org/confluence/display/MAVEN/MojoFailureException ..how to resolve](http://cwiki.apache.org/confluence/display/MAVEN/MojoFailureException)

Good, this is a **clear backend compile error** 

Let's fix it step-by-step.

ERROR MEANING (Simple words)

vbnet

```
cannot find symbol
symbol: class Optional
location: interface UserRepository
```

- 👉 Java **does not know what Optional is**
- 👉 Because you **did not import Optional**

Optional belongs to:

python

```
java.util.Optional
```

EXACT FIX (1-Minute Solution)

🔧 **Open this file:**

UserRepository.java

 **You probably have:**

```
java

package com.digitalclassroom.backend.repository;

import org.springframework.data.jpa.repository.JpaRepository;
// Optional is USED but NOT imported

public interface UserRepository extends JpaRepository<User, Long> {
    Optional<User> findByEmail(String email);
}
```

ADD THIS IMPORT (IMPORTANT)

```
java
import java.util.Optional;
```

✓ FINAL CORRECT CODE

```
java
package com.digitalclassroom.backend.repository;
import com.digitalclassroom.backend.model.User;
import org.springframework.data.jpa.repository.JpaRepository;
import java.util.Optional;
public interface UserRepository extends JpaRepository<User, Long> {
    Optional<User> findByEmail(String email);
}
```

▶ RUN AGAIN

In terminal:

```
bash
mvn clean install
```

or in VS Code:

- Right-click project
- **Maven → Clean**
- **Maven → Install**

🔥 WHY THIS CAUSED NETWORK ERROR IN FRONTEND

- Backend **failed to compile**
- Spring Boot **never started**
- React tried calling API → **✗ Network Error**

After fixing this:

- Backend will start
- API will be reachable
- Register button will work

✓ NEXT (Tell me)

- 1 Backend starts or not?
- 2 Any **CORS error** in browser console?
- 3 Want me to verify **Register API URL + Axios code?**

I'll fix it completely end-to-end 



```
package com.digitalclassroom.backend.repository;

import org.springframework.data.jpa.repository.JpaRepository;

import com.digitalclassroom.backend.entity.User;

public interface UserRepository extends JpaRepository<User, Long> {
    Optional<User> findByEmail(String email);
}

} ths is my userrepository.java
```

Perfect — you're **almost done** 

Your code is correct **except for ONE missing import.**

WHAT IS WRONG

You are using `Optional<User>` but **you did not import Optional**.

Java does NOT auto-import it.

EXACT FIX (JUST ADD 1 LINE)

Corrected UserRepository.java

```
java

package com.digitalclassroom.backend.repository;

import org.springframework.data.jpa.repository.JpaRepository;
import java.util.Optional; //  ADD THIS LINE

import com.digitalclassroom.backend.entity.User;

public interface UserRepository extends JpaRepository<User, Long> {
    Optional<User> findByEmail(String email);
}
```

NOW DO THIS

Save the file

2 Run backend again:

```
bash
mvn clean install
```

or

```
bash
mvn spring-boot:run
```

✓ EXPECTED RESULT

- ✗ Compile error → **gone**
- ✓ Backend starts successfully
- ✓ Spring Boot runs on **port 8080**
- ✓ Frontend Register API call will stop showing **Network Error**

⟳ NEXT STEP (IMPORTANT)

After backend starts, check in browser:

```
arduino
http://localhost:8080
```

If it loads → backend is running.

If you want, next I can:

- 🔒 Fix **duplicate email validation**
- ⟳ Redirect to **Login page after Register**
- 🔍 Debug **Axios POST URL**

Just tell me 



BUILD FAILURE

Total time: 10.248 s
Finished at: 2025-12-18T16:06:49+05:30

Failed to execute goal org.codehaus.mojo:exec-maven-plugin:3.5.1:exec (default-cli) on project

backend: Command execution failed.: Process exited with an error: 1 (Exit value: 1) -> [Help 1]

To see the full stack trace of the errors, re-run Maven with the -e switch.
Re-run Maven using the -X switch to enable full debug logging.

For more information about the errors and possible solutions, please read the following articles:
[Help 1] <http://cwiki.apache.org/confluence/display/MAVEN/MojoExecutionException> now i got this error

Good, this is a **different error now** 

Your **previous Optional issue is fixed**, but **Spring Boot is failing while starting**.

This error:

```
sql
```

```
Failed to execute goal org.codehaus.mojo:exec-maven-plugin:3.5.1:exec  
Process exited with an error: 1
```

 means **the application crashed at runtime**, NOT a compilation issue.

🔴 WHAT THIS ERROR ACTUALLY MEANS

- Maven successfully compiled the code 
- While **running** the a