

Setup Guide: Running the Frontend, Backend & Database

Step 1: Install Required Software

1. Download Node.js: <https://nodejs.org/>

2. Download MySQL Installer: <https://dev.mysql.com/downloads/installer/>

Check if installed:

```
node -v
```

```
mysql --version
```

Setup Guide: How to Run the Frontend, Backend & Database After Cloning from GitHub

After pulling the latest changes from GitHub, follow these steps to get the frontend, backend, and database running on your machine.

Step 1: Install Required Software

Before running the project, make sure you have:

- ****Node.js**** - Required to run the backend and frontend.

- ****MySQL**** - Required for the database.

Check If Installed

Open Command Prompt (cmd) and run:

```
---
```

```
node -v
```

```
mysql --version
```

If they return version numbers, you're good to go! Otherwise, install them from the links above.

```
---
```

Step 2: Clone the Repository

Open Command Prompt (cmd) / Terminal and run:

```
---
```

```
git clone https://github.com/your-username/your-repo.git
```

```
cd your-repo
```

(Replace `your-username/your-repo` with the actual GitHub repository name.)

```
---
```

Step 3: Install Backend Dependencies

Navigate to the backend folder and install the required packages:

```
---
```

```
cd backend
npm install
```

Step 4: Setup MySQL Database

Option 1: Import Database Dump (Recommended)

Open Command Prompt and log into MySQL:

```
```
```

```
mysql -u root -p
```

**Create the database:**

```
CREATE DATABASE userDB;
USE userDB;
```

**Import the database dump:**

```
SOURCE userDB.sql;
```

**Exit MySQL:**

```
EXIT;
```

### Option 2: Manually Create Database (If No Dump File)

If `userDB.sql` is missing, manually create the table:

```
```
```

```
CREATE TABLE users (
  id INT AUTO_INCREMENT PRIMARY KEY,
  username VARCHAR(255) NOT NULL,
  password VARCHAR(255) NOT NULL
);
INSERT INTO users (username, password) VALUES ('admin', 'password123');
```

Step 5: Configure the Backend

Open the backend folder:

```
```
```

```
cd backend
```

**Modify database connection in `server.js` (only if necessary):**

```
```js
```

```
const db = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "", // Set password if required
  database: "userDB"
});
```

Start the backend server:

```

node server.js

**You should see:**

```

Server running on http://localhost:5000
Connected to MySQL

Step 6: Install & Run the Frontend

Navigate to the frontend folder:

```

cd ../frontend

**Install frontend dependencies:**

```

npm install

Start the frontend:

```

npm run dev

**Open your browser and visit:**

```

http://localhost:3000

Step 7: Test Everything

Test Backend API (Using Curl)

Run:

```

curl -X POST http://localhost:5000/login -H "Content-Type: application/json" -d  
'{"username":"admin","password":"password123"}'

**Expected response:**

```json

{"success": true, "message": "Login successful!"}

Test Frontend

- Go to `http://localhost:3000` in your browser.
- Try logging in with:
...
Username: admin
Password: password123
...
- If successful, you should see a success message.

Final Checklist

- ✓ Clone the repo (`git clone ...`).
- ✓ Install backend dependencies (`npm install`).
- ✓ Set up MySQL database (`SOURCE userDB.sql;`).
- ✓ Start the backend (`node server.js`).
- ✓ Install frontend dependencies (`npm install`).
- ✓ Start the frontend (`npm run dev`).
- ✓ Test login with curl or browser.

Now your project is fully running! Let me know if you need any modifications. ■