**Setup Node.js and MySQL (XAMPP) on Windows for EzySign Backend**

**1️. Install Node.js on Windows**

**Step 1: Download & Install Node.js**

* Go to [Node.js official website](https://nodejs.org/) and download the **LTS (Long-Term Support) version**.
* Run the installer and follow the on-screen instructions.

**Step 2: Verify Installation**

After installation, open **Command Prompt (CMD)** or **PowerShell** and check:

node -v # Check Node.js version

npm -v # Check npm version

**2️. Install XAMPP for MySQL**

**Step 1: Download & Install XAMPP**

* Download XAMPP from Apache Friends.
* Run the installer and install **only MySQL and phpMyAdmin** (you can skip Apache, PHP, etc., if not needed).

**Step 2: Start MySQL Service**

* Open **XAMPP Control Panel** → Click **Start** next to MySQL.
* Click **Admin** to open phpMyAdmin in your browser.

**3️. Configure MySQL Database**

**Step 1: Create a New Database**

* Open **phpMyAdmin** (http://localhost/phpmyadmin).
* Click **Databases** → Create a new database **ezysign**.

**Step 2: Create a Users Table**

Go to **SQL** tab and run this query:

CREATE TABLE users (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100),

email VARCHAR(100) UNIQUE,

password VARCHAR(255),

role ENUM('admin', 'signer', 'viewer') DEFAULT 'viewer',

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

**4️. Setup Node.js Project**

**Step 1: Initialize a Node.js Project**

mkdir ezysign-backend

cd ezysign-backend

npm init -y

**Step 2: Install Required Dependencies**

npm install express mysql2 dotenv bcryptjs jsonwebtoken cors helmet morgan

**Step 3: Create a .env File**

Inside ezysign-backend, create a .env file and add:

PORT=5000

DB\_HOST=localhost

DB\_USER=root

DB\_PASSWORD=

DB\_NAME=ezysign

JWT\_SECRET=your-secret-key

**5️. Connect Node.js to MySQL (XAMPP)**

**Step 1: Create Database Connection File**

Create a db.js file inside a config/ folder and set up MySQL connection using mysql2.

**Step 2: Test Connection**

Run the server using:

node server.js

or

npx nodemon server.js # If using nodemon