# Installation Guide for MERN Project

## Introduction

This guide provides step-by-step instructions to set up and run a MERN stack project with separate folders for the client and server. Ensure you have the required dependencies and tools installed.

## Prerequisites

Before proceeding, make sure the following are installed on your system:

* - Node.js (v16 or above)
* - MongoDB
* - Git
* - A package manager like npm or yarn

## Project Structure

The project structure is as follows:

1. client/ - Contains the React frontend.

2. server/ - Contains the Node.js backend.

## Installation Steps

1. Clone the repository:

git clone <repository-url>

2. Navigate to the client folder and install dependencies:

cd client

npm install

3. Navigate to the server folder and install dependencies:

cd ../server

npm install

## Configure Environment Variables

4. Create a .env file in the server folder and add the required environment variables. Example:

MONGO\_URI=mongodb://localhost:27017/<database-name>  
 PORT=5000  
 NODE\_ENV=development

## Running the Project

5. Start the backend server:

cd server

npm start

6. Start the frontend development server:

cd ../client

npm start

7. Access the application in your browser at http://localhost:3000.

## Troubleshooting

- Ensure MongoDB is running before starting the server.

- Verify environment variables are set correctly.

- Check for dependency conflicts by deleting node\_modules and reinstalling.