# React Project Setup Guide

## 1. Introduction

This document provides an easy-to-follow guide for setting up and running a React project. It ensures that the correct Node.js version is installed and outlines the necessary commands for starting the development server.

## 2. Node.js Requirement

To run this React project, ensure you have Node.js installed with at least version 16 or the latest stable version. You can check your Node.js and npm versions using the following commands:

```bash  
node -v # Check Node.js version  
npm -v # Check npm version  
```

## 3. Setup Steps

Follow these steps to start the React project:

### Step 1: Navigate to Project Directory

Use the following command to move into the project folder:

```bash  
cd project-folder  
```

### Step 2: Install Dependencies

Run the following command to install the required dependencies:

```bash  
npm install  
```

### Step 3: Start the Development Server

To start the React development server, use:

```bash  
npm run dev  
```

If you need to run the server on the network to access from other devices, use:

```bash  
npm run dev -- --host  
```

### Step 4: Install Additional Dependencies (If Needed)

If the project requires additional dependencies, install them using the following command format:

```bash  
npm install <package-name>  
```

For example, to install React Router:

```bash  
npm install react-router-dom  
```

## 4. Setup Flowchart

The following diagram represents the setup process visually:

📂 Project Setup  
 ├── ✅ Check Node.js & npm version  
 ├── 📂 Navigate to Project Folder (cd project-folder)  
 ├── 📦 Install Dependencies (npm install)  
 ├── 🚀 Start Development Server (npm run dev or npm run dev -- --host)  
 └── 🔧 Install Additional Dependencies (if required)