# React Native Environment Setup

## System Requirements

Document the specifications of your machine. Ensure your system meets the requirements for running React Native.  
- Operating System: Windows 10 (64-bit) or macOS  
- CPU: Intel Core i5 or higher  
- RAM: Minimum 8 GB (16 GB recommended)

## Installation Instructions

Step-by-step instructions for installing necessary tools and dependencies:

1. Install Node.js:  
 - Download and install Node.js from the official website: https://nodejs.org/

- Verify installation using commands:  
 ```bash  
 node -v  
 npm -v  
 ```  
2. Install React Native CLI:  
 ```bash  
 npm install -g react-native-cli  
 ```  
3. Install Android Studio or Xcode:  
 - Android Studio for Windows: Install Android SDK and set up an AVD.  
 - Xcode for macOS: Download from the Mac App Store.

## Configuration Steps

Windows users should set up environment variables (ANDROID\_HOME) and update system PATH. macOS users should install Xcode Command Line Tools:  
```bash  
xcode-select --install  
```

## Project Creation

To create a new React Native app, run the following command:  
```bash  
npx react-native init IncredibleTodoListApp  
```

## Running the Project

To run the project on an Android Emulator:  
```bash  
npx react-native run-android  
```  
To run the project on an iOS Simulator (macOS only):  
```bash  
npx react-native run-ios  
```

## Troubleshooting

Common issues and solutions:  
- \*Command not found: react-native\*: Ensure React Native CLI is installed globally.  
- \*Android SDK not found\*: Verify ANDROID\_HOME is set correctly.  
- \*Build failed\*: Run `npm install` or `yarn` in your project directory.

## Resources

Helpful links for further reference:  
- [React Native Official Documentation](https://reactnative.dev/docs/getting-started)  
- [Node.js Official Documentation](https://nodejs.org/en/docs/)  
- [Android Studio Setup](https://developer.android.com/studio)  
- [Xcode Documentation](https://developer.apple.com/xcode/)