# OS Project - ReadMe

## Prerequisites

Before you begin, ensure the following software and tools are installed on your system:

1. Operating System: Windows/Linux/MacOS (choose based on your environment).
2. Python: Version 3.7 or higher.
3. Git: To clone the repository.
4. Node.js and npm: Required for front-end setup.
5. Required Packages: Listed in the requirements.txt file.

## Step-by-Step Instructions

Follow these steps to set up and run the project:

### 1. Back-End Setup

1. Create a virtual environment:  
   virtualenv venv
2. Activate the virtual environment:
   1. For Linux/MacOS:  
      source venv/bin/activate
   2. For Windows:  
      venv\Scripts\activate
3. Install the required packages:  
   pip install -r requirements.txt

### 2. Front-End Setup

1. Navigate to the client directory:  
   cd ~/client
2. Install the necessary dependencies:  
   npm install

### 3. Running the Project

1. Start the development server:  
   npm run dev
2. Access the application in your web browser at:  
   http://localhost:3000