Execution Plan

1. Installation

Prerequisites:

- **Python 3.8+**
- **Node.js 14.x or later**
- **npm**

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2. Backend Setup

Clone the repository:
bash
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```
git clone https://github.com/stardust-crusaders-x/nyxNOVA.git
cd nyxNOVA-be
```

1.
2. **Set up a virtual environment**:

On Linux/macOS:
bash
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```
python -m venv venv
source venv/bin/activate
```

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On Windows:
bash
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```
venv\Scripts\activate
```

      ○

3. **Install required packages**:

Option 1: Install from `requirements.txt`:
bash
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```
pip install -r requirements.txt
```

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Option 2: Install packages manually:
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```bash
pip install pqdict segmentation_models_pytorch
pip install pytorch-lightning
pip install torch
```

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3. Frontend Setup

Navigate to the frontend directory:
bash
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```bash
cd nyxNOVA-fe
```

1.

Exoplanet Charting Setup:
bash
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```bash
cd Exoplanet\Atmos_tut\r3f-wawatmos-starter
```

2.
3. **Install dependencies**:

Using npm:
bash
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```bash
npm install
```

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Using Yarn:
bash
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```bash
yarn install
```

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4. Running the Development Server

For the main website:
bash
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```
cd nyxNova-site
npm run dev
```

1.

For the Moon Lander Simulator:
bash
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```
cd MoonLander-Simulator
```

2.

For the Exoplanet I:
bash
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```
cd Exoplanet\Atmos_tut\r3f-wawatmos-starter
```

3. `yarn dev`