

Documentation

Space VR :

space VR is a web application that provide it's users with a good demonstration of the planets, moon and satellites especially the International Space Station (ISS). We always in Space VR aim to make the User Experience fun and enjoyable. Also the user interface is important like the experience from us so the user can navigate easily in the website and also open source.

Installation:

```
git clone <"change after push to github">  
cd "spaceVR" && npm install && npm start
```

Some of our main packages:

1- **Material UI:**

MUI Core contains foundational React UI component libraries for shipping new features faster.

- **Material UI** is a comprehensive library of component that features our implementation of Google's Material Design system.
- **Joy UI** is a beautifully designed library of React UI components
- **MUI Base** is our library of "unstyled" components and low-level hooks. With Base, you gain complete control over your app's CSS and accessibility features.
- **MUI System** is a collection of CSS utilities to help you rapidly lay out custom designs.

Why Material UI:

designed for rapid prototyping, increasing overall software development velocity, and creating user interfaces at speed

Installation:

Material UI : npm install @mui/material @emotion/react @emotion/styled

MUI Base : npm install @mui/base

MUI System : npm install @mui/system @emotion/react @emotion/styled

2- **three/fiber:**

React Fiber divides the work into multiple units of work, which is fiber. It schedules the work in multiple frames and uses the deadline from the request Idle Callback. Every update has its priority defined like animation, or user input has a higher priority than rendering the list of items from the fetched data. react-three-fiber is a React render for threejs.

Why three/fiber:

Build your scene declaratively with re-usable, self-contained components that react to state, are readily interactive and can tap into React's ecosystem.

Installation:

three/fiber: npm install three @react-three/fiber

3- **Web WorldWind**

Web WorldWind is a free, open-source virtual globe for web pages. Written in JavaScript, Web WorldWind enables web page and application builders to quickly create interactive visualizations of geographic information on an interactive 3D globe or 2D map.

Why Web WorldWind:

Ease to use and download it and user friendly

Installation:

Web WorldWind: git clone

<https://github.com/NASAWorldWind/WebWorldWind.git>