Fun 06: Three.js

- สร้าง Scene 3 มิติ ตามจินตนาการ โดยใช้ Three-React-Fiber
- มีการแสดงหน้าเว็บไซต์โดยใช้ iframe
- มี Model 3 มิติ อย่างน้อย 3 ชิ้น
- มี Text แสดง อย่างน้อยชื่อของตนเอง

App.jsx

- sets up a 3D scene using Three.js and react-three-fiber.

```
App.jsx
                                   # style.css
06 Three React Fiber > src > ♦ App.jsx > ...
       import * as THREE from 'three'
       import { Canvas } from '@react-three/fiber'
       import Experience from './Experience.jsx'
       import './style.css'
       function App() {
         return (
             <Canvas gl={{
               antialias: true,
 11
               toneMapping: THREE.ACESFilmicToneMapping
 12
               camera={{
                 fov: 45, near: 0.1, far: 200,
                 position: [3, 2, 6]
               }}
               <Experience />
             </Canvas>
       export default App
```

Style.css

- setup creates a fullscreen 3D experience

```
×
Experience.jsx
                   App.jsx
                                     # style.css
06 Three React Fiber > src > # style.css > 😭 html
       html,
       body,
       #root {
           position: fixed;
            top: 0;
           left: 0;
           width: 100%;
           height: 100%;
            overflow: hidden;
           background: ■rgb(195, 211, 221);
 11
```

Experience.jsx

- Import libraries and add the objects from web:

```
https://market.pmnd.rs/
```

- Show and adjust the object to the position we want to.
- Add the message box from Dr. Suriya.
- Add two websites for my computer and my phone.
- Add my name as a text.
- Add some shadow.

Add the object link to the const name.

```
Experience.jsx X
                  App.jsx
06 Three React Fiber > src > 🏶 Experience.jsx > 🗘 Experience
       export default function Experience() {
           return <>
               <OrbitControls makeDefault />
               <Environment preset="city" />
               <PresentationControls</pre>
                   global rotation={[0.13, 0.1, 0]} polar={[- 0.4, 0.2]} azimuth={[- 1, 0.75]}
                   config={{ mass: 2, tension: 400 }} snap={{ mass: 4, tension: 400 }}
                   <primitive object={table.scene} position={[0, -1.5, 0]} scale={3.0} />
                   <primitive object={computer.scene} position={[0, 3.1, 0.3]} scale={1.0} />
                   <pri>rimitive object={book.scene} position={[3.5, 3.6, 0.5]} scale=\{3.0\} />
                   <primitive object={pizza.scene} position={[-3.0, 3.5, 0.5]} scale={2.5} />
                   <primitive object={cactus.scene} position={[-4.5, 3.5, -1.0]} scale={0.5} />
                   <primitive object={iPhone.scene} position={[2.5, 3.7, -1.0]} scale={0.3} />
                   <primitive object={cup.scene} position={[4.5, 3.4, -1.0]} scale={0.5} />
                   <primitive object={bookcase.scene} position={[3.0, 0.0, -4.0]} scale={4.0} />
```

Show the object and adjust their position.

```
Experience.jsx X 🔅 App.jsx
                                # style.css
06 Three React Fiber > src > ♥ Experience.jsx > ♥ Experience
      export default function Experience() {
                  position={[-1, 6.3, -1.5]}
                     wrapperClass="label"
                     center
                     distanceFactor={6}
                     style={{
                         background: '■rgb(223, 217, 50)',
                         color: 'black',
                         padding: '15px 40px',
                         borderRadius: '20px',
                         fontSize: '20px',
                         fontWeight: 'bold',
                         width: '200px',
                         whiteSpace: 'nowrap'
                      }}
                     Dr. SURIYA : STUDY!!!
                  </Html>
```

Message box from Dr.Suriya told me to study eiei.

```
🌣 Experience.jsx 🗙
                  App.jsx
                                   # style.css
06 Three React Fiber > src > ♥ Experience.jsx > ♥ Experience
       export default function Experience() {
                                                           */}
                   <Html
                        position={[-0.825, 5.2, -1.2]}
                        rotation-x={-0.25}
                        transform
                        distanceFactor={1.2}
                        style={{ width: '450px', height: '280px' }}
                        <iframe
                            src="https://app.leb2.org/class/858352/online-course"
                            width="1000"
                            height="650"
                    </Html>
                    <Html
                        position={[3.0125, 4.105, -1.0]}
                        rotation-x={0.0}
                        transform
                        distanceFactor={1.2}
                        style={{ width: '450px', height: '280px' }}
                        <iframe
                            src="https://translate.google.co.th"
                            width="140"
                            height="300"
                    </Html>
```

Two websites

- First is for my computer showing the LEB2 of Dr.Suriya video.
- Second is for my phone showing the google translate (actually I want to link YouTube but they are not allow).

```
Experience.jsx X 🍪 App.jsx
                               # style.css
06 Three React Fiber > src > ♦ Experience.jsx > ♦ Experience
      export default function Experience() {
 64
                  {/* ----- Text ----- */}
                     font="./PollerOne-Regular.woff"
                     fontSize={1}
                     color='□rgb(50, 52, 49)'
                     position={[2, 9.75, -5.75]}
                     rotation-y={0.0}
                     maxWidth={2}
                     textAlign='center'
                     THITIPORN SUWANNAWONG
                  </Text>
              </PresentationControls>
              <ContactShadows
                 position={[0, -1.55, 0]}
                 opacity={0.85}
                 scale={15}
                 blur={3.5}
                 far={5}
                 resolution={1024}
```

I added my full name as a text because Dr.Suriya want to and add some shadow to make an object reality.

RESULT



