

Deployable IFC Viewer based on ThatOpen

Task

This student project aims to develop a web viewer for IFC models using TypeScript, JavaScript, and the AECO Ecosystem by ThatOpenCompany (formerly Ifc.js), offering basic 3D visualization, component selection, and semantic information retrieval. The final application will be versatile, with capabilities for web embedding, Docker deployment, and desktop execution.

Instructions:

- Familiarize yourself with the ThatOpen documentation and study the provided sample code to understand the foundation of the project.
- Collaboratively distribute tasks among the group in a fair and targeted manner to ensure efficient progress.
- Develop the required features by integrating existing code and libraries, creating custom components as need-ed, and thoroughly testing their functionality.
- Learn about the available deployment options and implement the most appropriate methods to ensure the application runs effectively in its intended environment.

Project Characteristics

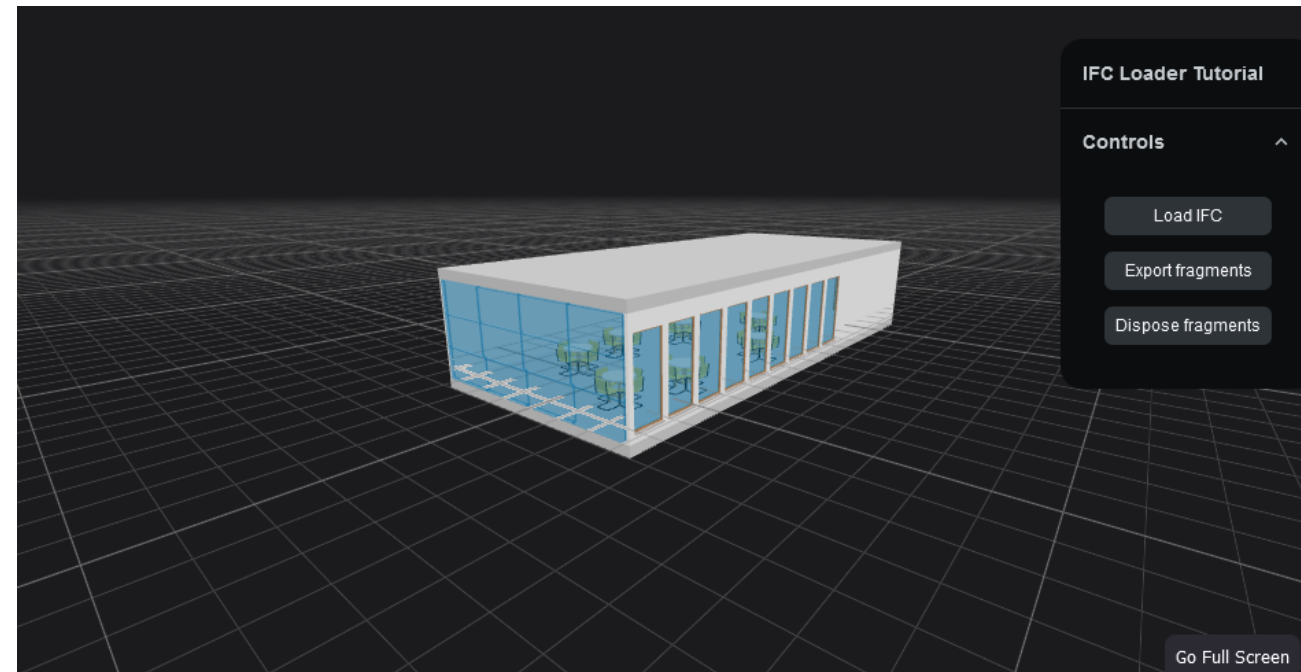
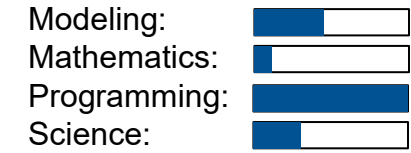


Figure 1: Example web IFC Viewer using ThatOpen engine components. [Image source](#)