

# Description

The objective of this project is to extend the web ordering application so that customers can have a better view of products and their fine-grained details.

As part of this project, we are tasked with integrating a 3D viewer into various pages in the website, in order to display 3D product images in the browser via two separate rendering techniques.

These rendering techniques include:

1. 3D IFC/Revit File (vector based)
2. 3D Bitmap Rotation

Moreover, as an advanced (optional) feature, we have also been given the option to display the parameterized data of the 3D models within the 3D images themselves.

The team will work in conjunction with team SQ-Koala to modify and extend the existing web pages, and to ensure that the viewers have interactive functionalities.

Furthermore, the team will implement a service to convert IFC files to 3D images, and find an appropriate storage solution for these images.

The intended outcome of this project will be to complete the above features, and subsequently demonstrate them to both the client, Glenn Drew of SQUIZZ, and Andrew Krake of Holyoake Industries, the latter being a representative for a company that supplies air management solutions to the construction and building industry within Australia and New Zealand.