<div align="center">**Requirement Specification**</div>

Project name: Integration and visualisation

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Purpose: Tie everything together into a single working software tool that takes a 3D model file along with any user input needed, and then produces the documents that can be sent for approval.

Project summary: Overview of the whole site and view of each roof face with solar panels.

High-level overview of the system:

Technology used: Python Programming language

Functional Requirements:

High Priority:

1. overview of the whole system(all roof faces on all buildings, all fire ventilation setbacks and pathways all solar panels)
2. verify in which wind pressure zones the solar panels will be mounted
3. display for each solar pannel:

- Roof face, with edge type printed next to each edge
- All solar panels on this roof face (so it would be visible which solar panels fall into which wind pressure zone)
- Wind pressure zones
- Calculation showing the wind zone width that was used

Medium Priority:

Low Priority:

Non-funcional Requirements: