

Questionnaire for AI-Generated Building Façade in Historic Districts

Informed Consent Form

Dear participants:

Thank you very much for participating in our survey, which is a questionnaire about **AI Generative Design for Building Façade Renovation** and is only used for academic research. In the process of answering the questionnaire, you need to focus highly on the questionnaire materials, carefully observe the content, make judgments and associations, and maintain your brain's thinking. During the scoring process, there were no situations of being empty, dazed, or feeling sleepy.

This participation is purely voluntary and you may terminate your participation in this study at any time. The decision will not result in any adverse consequences. When collecting questionnaire data, personal information such as name, age, etc. is not involved, and only a number is used to store your information. The collected information is only for academic research purposes and personal information is strictly confidential.

If you already understand the above content and are willing to participate in this study, please check "Yes" below.

☐ Yes

☐ No

Before checking the boxes, please understand the following façade renovation logic:

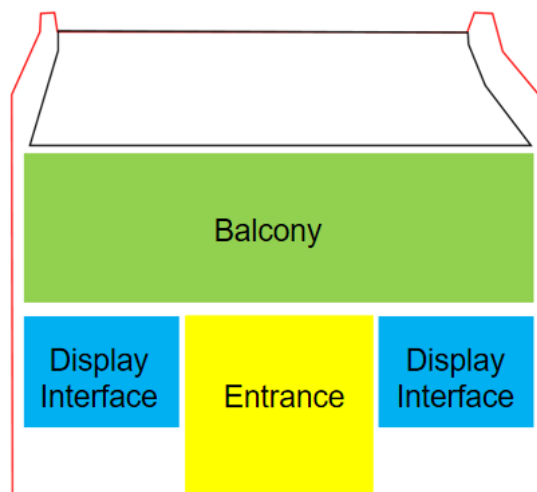
1. Existing condition of the building:

The existing building is a traditional residential façade characterised by a relatively solid wall surface and a clear principal frame structure, including roof outline, façade proportions, and column-grid organisation.



2. Business-format renovation requirements:

The renovation should preserve the existing roof outline and principal façade skeleton while adapting the building into a dining-oriented commercial façade. Functional components, including entrances, display interfaces, and terraces/balconies, should be introduced according to the target semantic colour-block map.



Please evaluate the following mixed images and select 10 images based on your professional judgement.

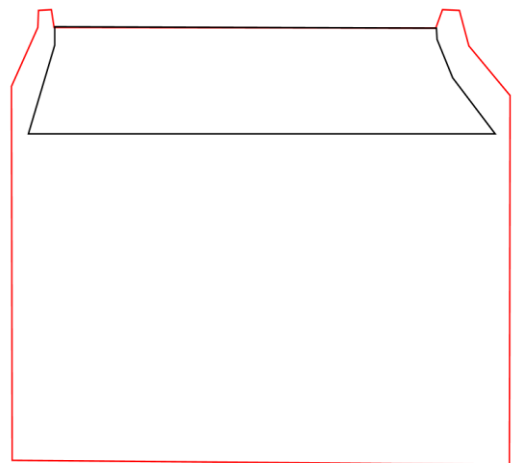
1. Structural Fidelity Evaluation

Definition:

Does the generated façade preserve the principal structure and spatial organisation of the original building?

Evaluation criteria:

- Is the roof outline consistent with the reference building?
- Are the façade proportions and number of floors maintained?
- Does the generated façade preserve the original principal frame and column-grid structure without uncontrolled reconstruction?



Please evaluate the following mixed images and select 10 images based on your professional judgement.

[Multiple selections are allowed]

 AI-Generated	 AI-Generated	 AI-Generated	 AI-Generated
☐ 1	☐ 2	☐ 3	☐ 4
 AI-Generated	 AI-Generated	 AI-Generated	 AI-Generated
☐ 5	☐ 6	☐ 7	☐ 8



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□ 12



□ 13



□ 14



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 AI-Generated □ 17	 AI-Generated □ 18	 AI-Generated □ 19	 AI-Generated □ 20
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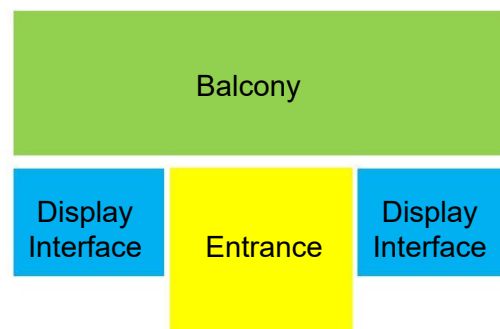
2. Functional Responsiveness Evaluation

Definition:

Does the generated façade satisfy the intended business-format requirements according to the target semantic-layout diagram?

Evaluation criteria:

- Are functional components, such as entrances, display interfaces, and balconies/terraces, located consistently with the semantic colour-block map?
- Do the positions and configurations of façade openings correspond to the intended commercial functional requirements?



Please evaluate the following mixed images and select 10 images based on your professional judgement.

[Multiple selections are allowed]

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 AI-Generated	 AI-Generated	 AI-Generated	 AI-Generated
☐ 5	☐ 6	☐ 7	☐ 8



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 AI-Generated □ 17	 AI-Generated □ 18	 AI-Generated □ 19	 AI-Generated □ 20
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