

**A Project Report
On**

A Symphony of Form and Function in the Double-Building House Complex

Submitted to

KISCIT UNIVERSITY, KAHUTA



**KISCIT
UNIVERSITY**

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY In SOFTWARE ENGINEERING

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Project Report:

Double-Building House Complex

1. Introduction:

1.1 Overview of the Project:

The project involves creating detailed AutoCAD drawings for a double-building house complex, with a strong emphasis on the architectural elements of the exteriors. This report aims to provide a visually appealing representation of the complex, ensuring alignment with local building codes and regulations.

1.2 Purpose and Scope:

The primary goal is to offer a comprehensive visual understanding of both the exterior features and interior spaces of the double-building house complex. By providing accurate and detailed plans and elevations, this project report seeks to showcase the architectural design of the buildings along with the room configurations, excluding specific furniture and decor details.



1.3 Specific Requirements and Constraints:

Compliance with local building codes and regulations.

Focus on both exterior architectural elements and interior room configurations.

Exclusion of specific furniture and decor details.

2. Project Specifications:

2.1 Dimensions of Each Building:

Building A:

Bathroom:

Length: 5 feet to 10 feet

Width: 7 feet to 10 feet

Bedroom (for a single bed):

Length: 10 feet to 12 feet

Width: 10 feet to 12 feet

Lobby or Entryway:

Length: 6 feet to 10 feet

Width: 4 feet to 6 feet

Hallway:

Width: 3 feet to 4 feet (for a comfortable walking space)

Living Room:

Length and width can vary significantly based on the size of the house, but a medium-sized living room might be around 15 feet by 20 feet.

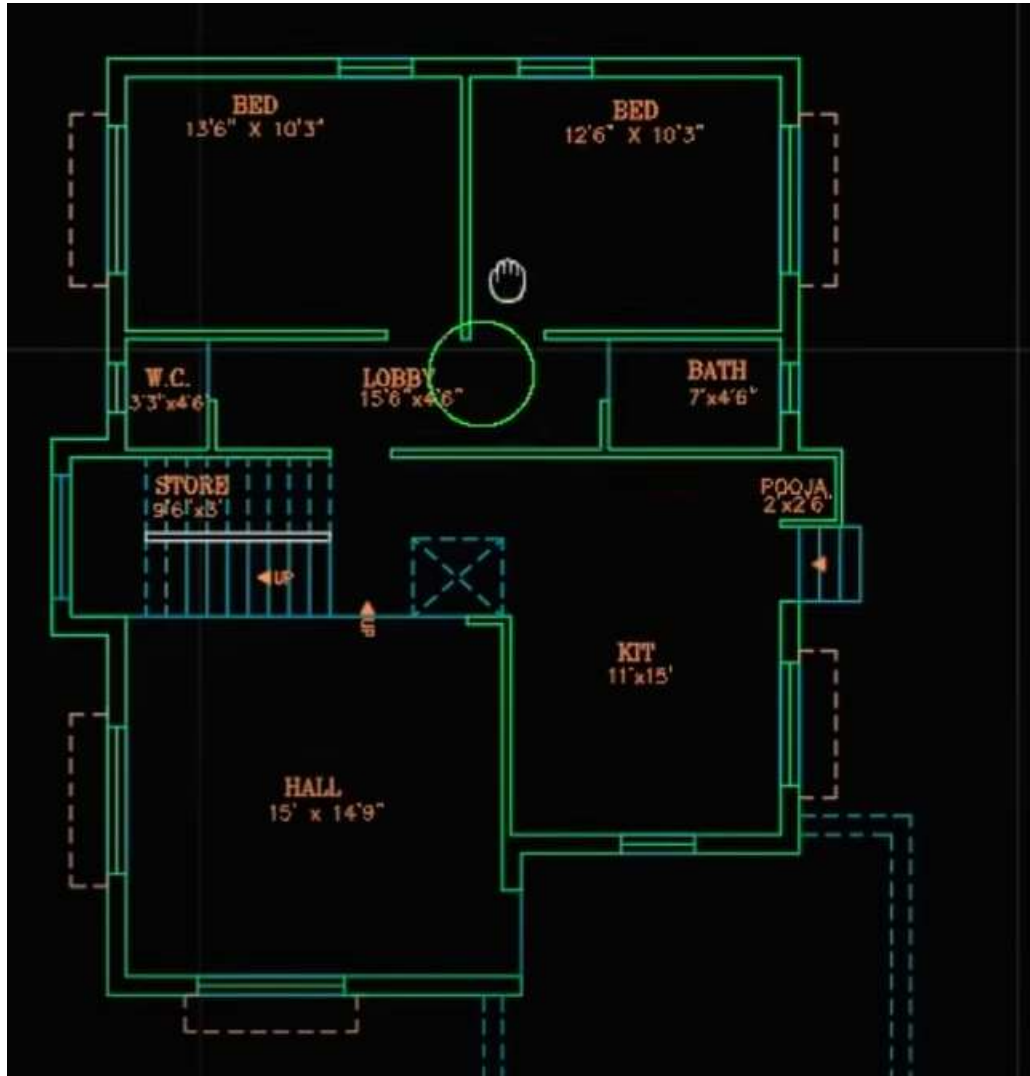
Storage Room:

Dimensions can vary, but a small storage room might be around 6 feet by 6 feet.

Kitchen:

Length: 10 feet to 20 feet

Width: 10 feet to 15 feet



Building B:

Bathroom:

Length: 5 feet to 10 feet

Width: 7 feet to 10 feet

Bedroom (for a single bed):

Length: 10 feet to 12 feet

Width: 10 feet to 12 feet

Lobby or Entryway:

Length: 6 feet to 10 feet

Width: 4 feet to 6 feet

Hallway:

Width: 3 feet to 4 feet (for a comfortable walking space)

Living Room:

Length and width can vary significantly based on the size of the house, but a medium-sized living room might be around 15 feet by 20 feet.

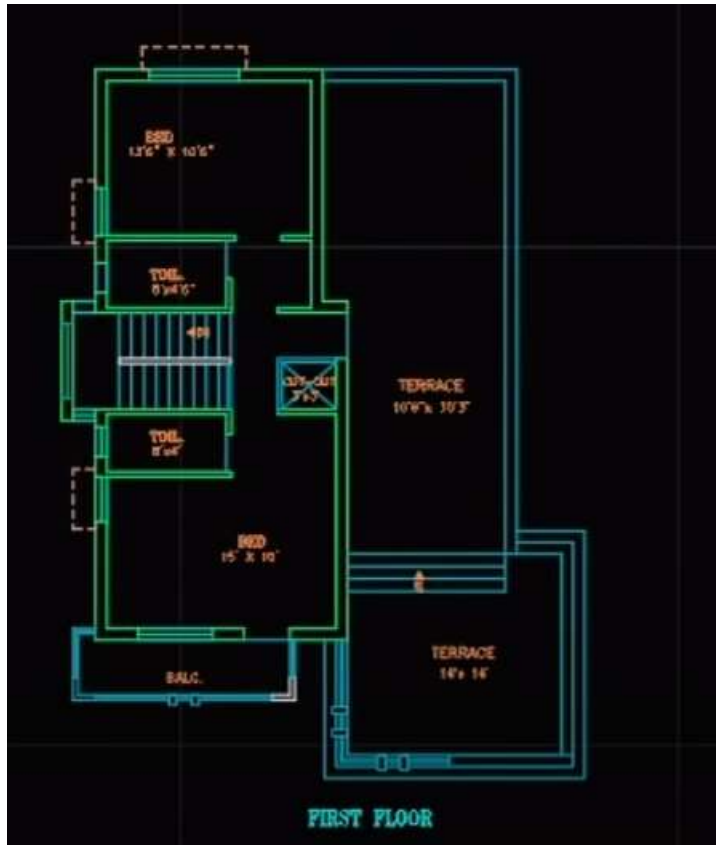
Storage Room:

Dimensions can vary, but a small storage room might be around 6 feet by 6 feet.

Kitchen:

Length: 10 feet to 20 feet

Width: 10 feet to 15 feet



2.2 Total Area:

Overall plot area: 10,000 square feet.



Building A:

Bathroom: Approximately 200 square feet (10% of total floor area)

Bedroom (for a single bed): Approximately 240 square feet (12% of total floor area)

Lobby or Entryway: Approximately 160 square feet (8% of total floor area)

Hallway: Approximately 80 square feet (4% of total floor area)

Living Room: Approximately 600 square feet (30% of total floor area)

Storage Room: Approximately 72 square feet (3.6% of total floor area)

Kitchen: Approximately 500 square feet (25% of total floor area)

Building B:

Bathroom: Approximately 200 square feet (10% of total floor area)

Bedroom (for a single bed): Approximately 240 square feet (12% of total floor area)

Lobby or Entryway: Approximately 160 square feet (8% of total floor area)

Hallway: Approximately 80 square feet (4% of total floor area)

Living Room: Approximately 600 square feet (30% of total floor area)

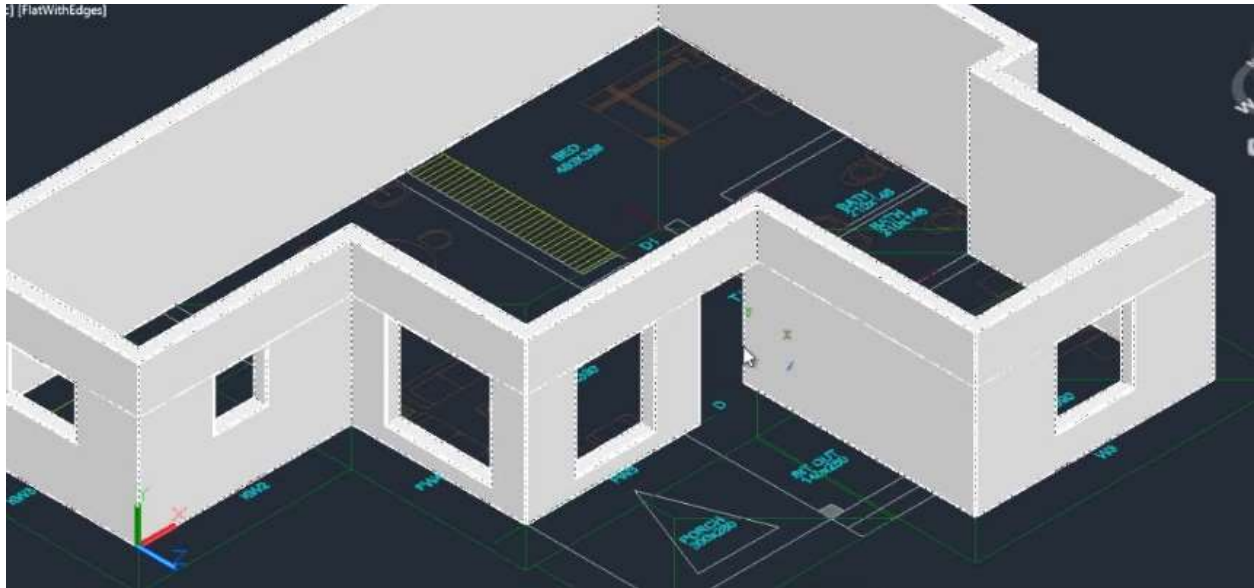
Storage Room: Approximately 72 square feet (3.6% of total floor area)

Kitchen: Approximately 500 square feet (25% of total floor area)

3. Architectural Elements:

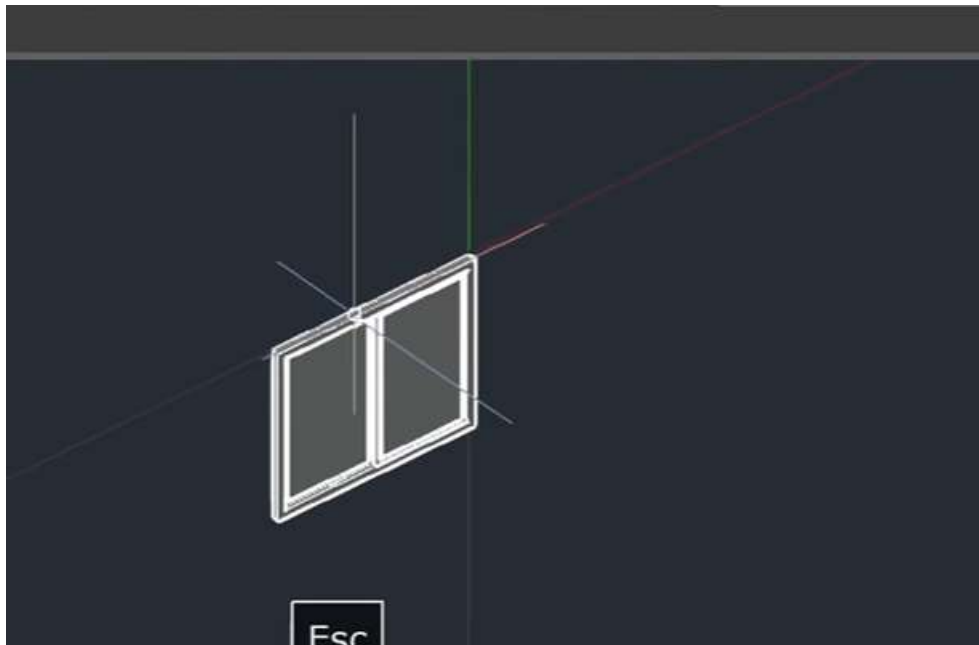
3.1 Walls:

Exterior walls will be designed with a thickness suitable for structural integrity, insulation, and aesthetic appeal. Materials will be selected to align with local building codes, and the incorporation of decorative elements may be considered for added visual interest.

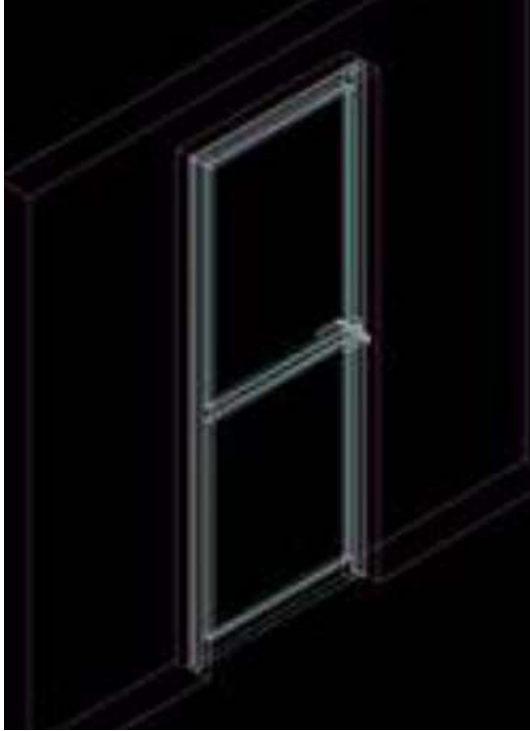


3.2 Windows:

A variety of window types will be strategically placed to maximize natural light, ventilation, and scenic views. The design will include considerations for window styles such as bay windows, clerestory windows, or dormer windows, enhancing the overall architectural character.

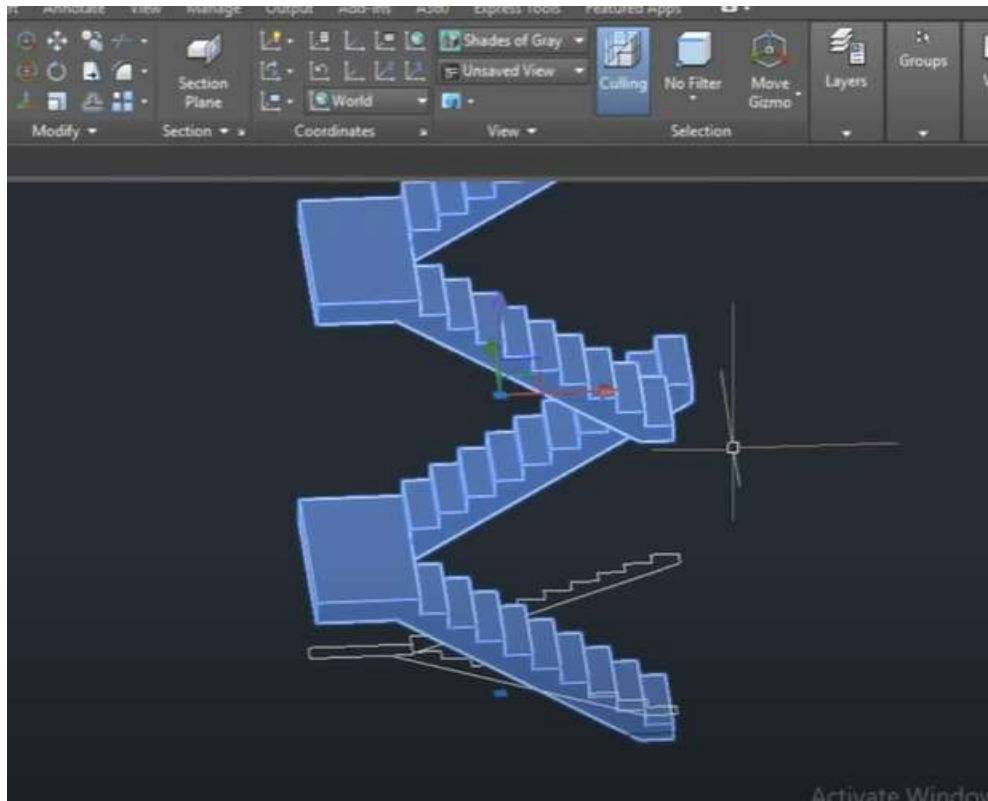


3.3 Doors:

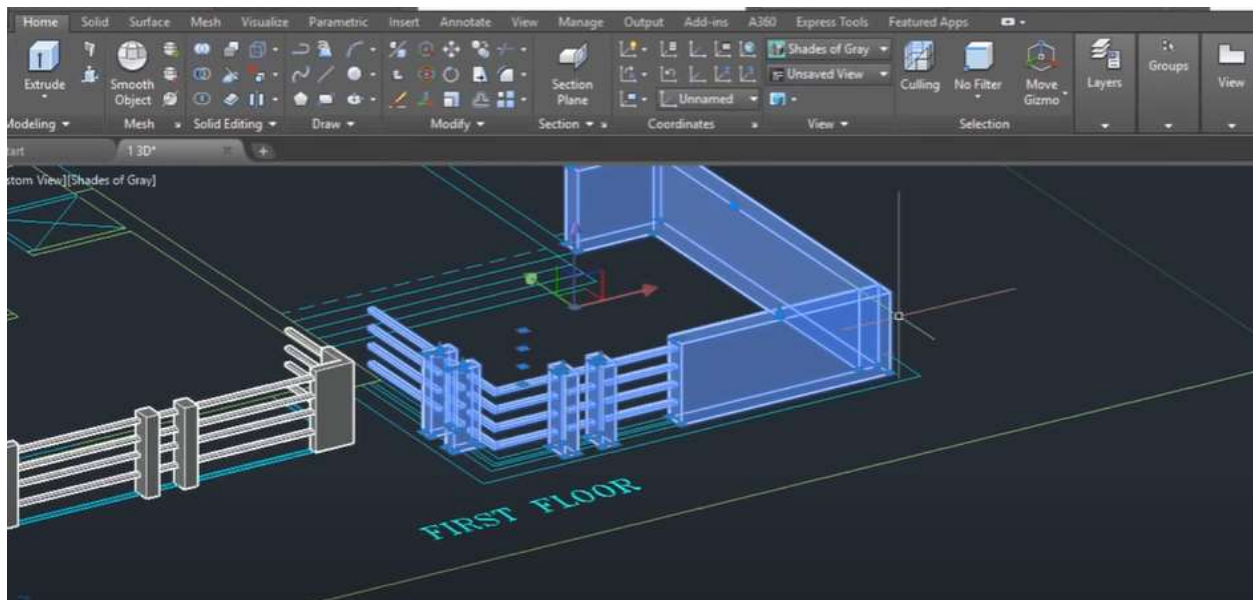


Entrance doors will be strategically placed for accessibility, security, and aesthetic balance. Different door styles, such as arched doors or glass-panel doors, may be incorporated to add architectural variety. The material selection will be based on durability and aesthetic compatibility.

Stairs: If applicable, a staircase connecting floors, designed for both functionality and aesthetics.



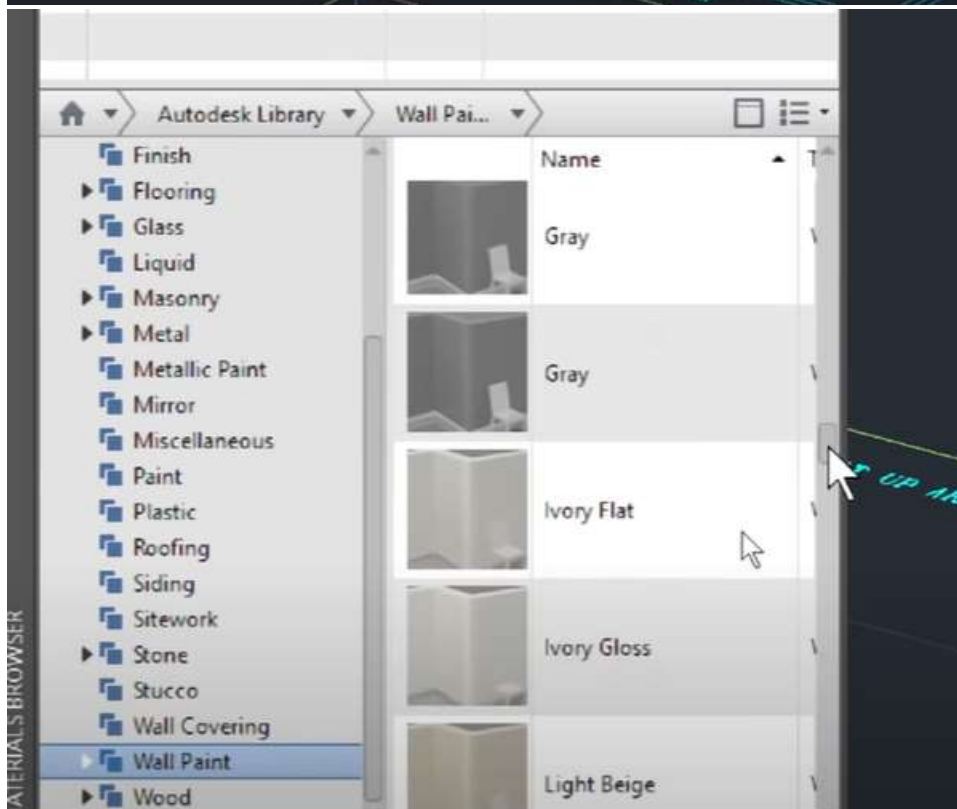
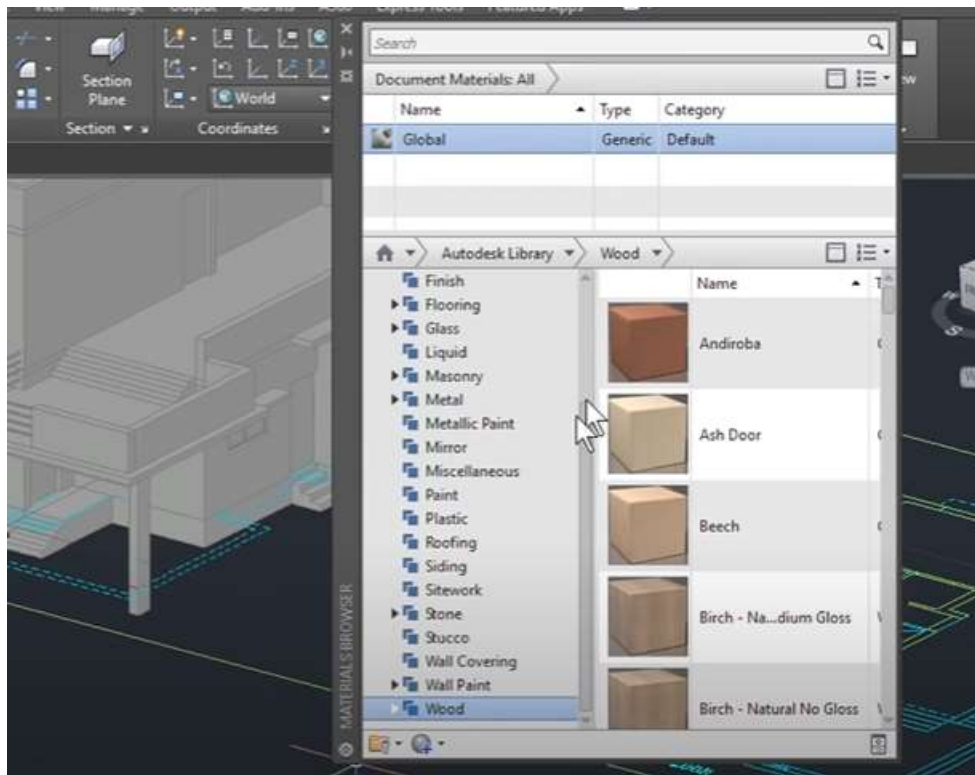
Grill: Outdoor grill placed in a designated area, possibly on a patio or balcony.



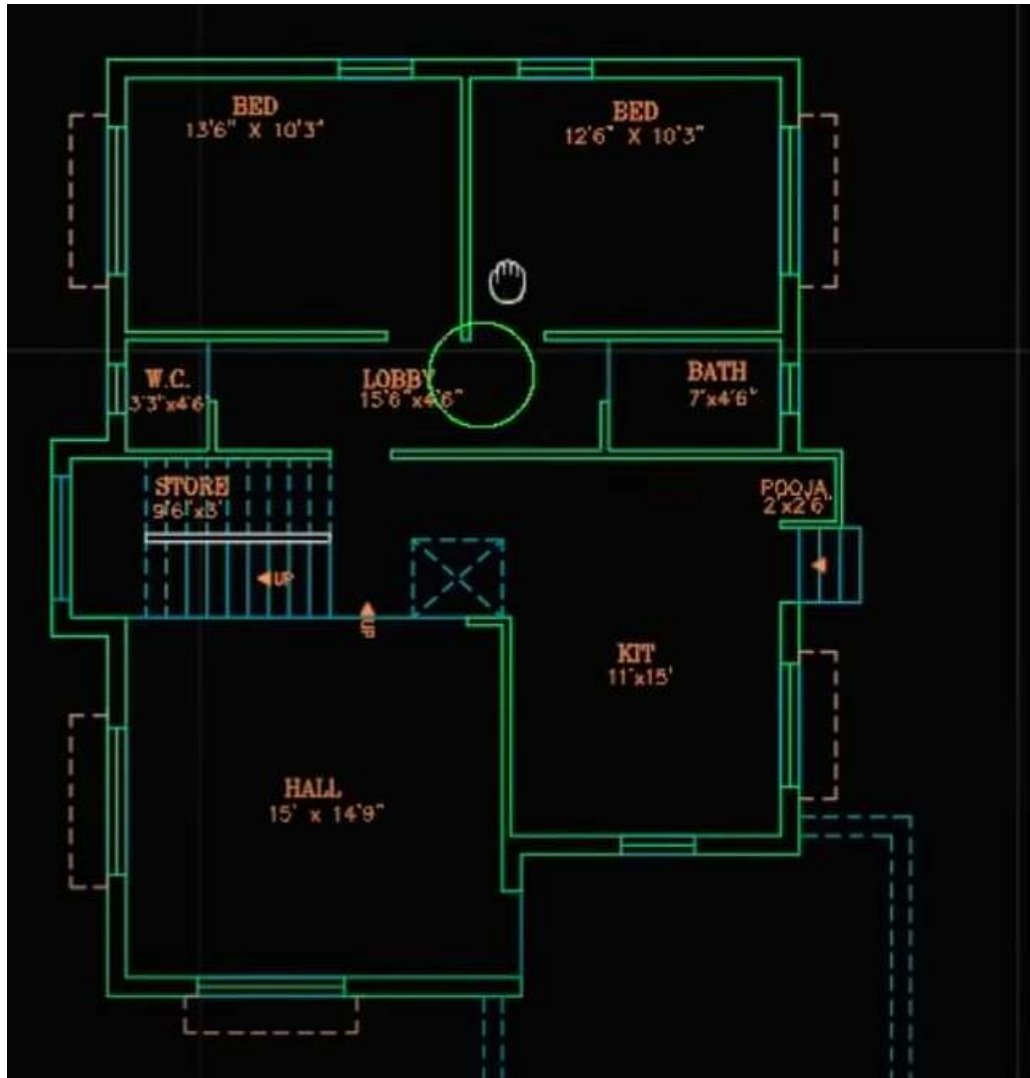
3.4 Exterior Colors:

A carefully curated color scheme will be chosen for walls, doors, and windows to enhance the visual appeal of the double-building house complex. Color options will

be explored, taking into account regional aesthetics, environmental context, and the desired atmosphere.

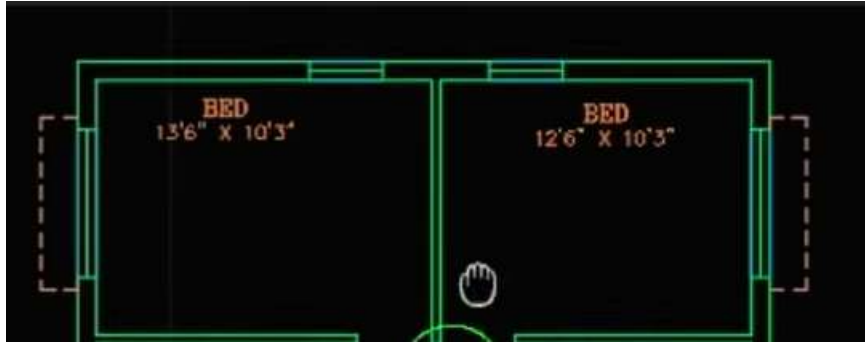


4. Interior Room Configurations:



4.1 Bedrooms:

Two bedrooms will be designed, each with considerations for size, orientation, and access to natural light. Closet spaces and possible locations for windows will be incorporated based on the overall room layout.



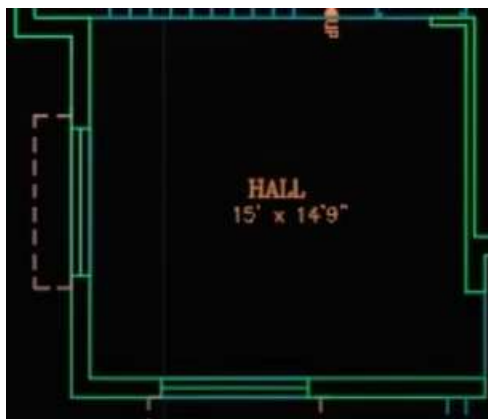
4.2 Bathroom:

A single bathroom will be included, featuring essential fixtures such as a shower, toilet, and sink. The layout will emphasize functionality and space efficiency.



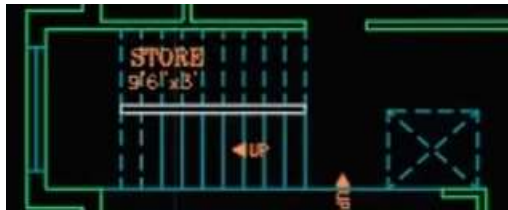
4.3 Hall:

The hall will serve as a central gathering space within each building, connecting various rooms. Considerations for furniture placement and open design will contribute to a welcoming atmosphere.



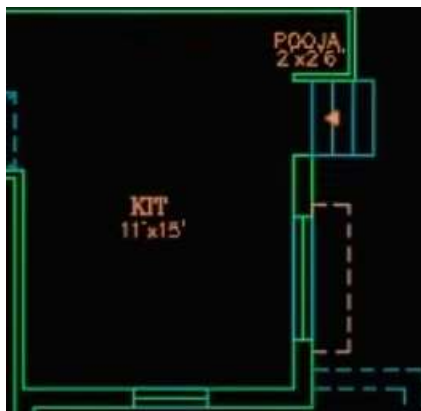
4.4 Storage Room:

A dedicated storage room will be integrated, offering additional space for household items. The design will prioritize accessibility and organization.



4.5 Kitchen:

The kitchen space will be designed with functionality in mind, considering the placement of appliances, storage, and countertop space. Adequate ventilation and lighting will be incorporated.



4.6 Lobby:

A welcoming lobby area will be present in each building, providing a transition space between the entrance and the main living areas. Design elements will contribute to a positive first impression.



5. Tools and Commands Used:

In addition to the previously mentioned tools, the following AutoCAD tools and commands will be utilized for room configurations:

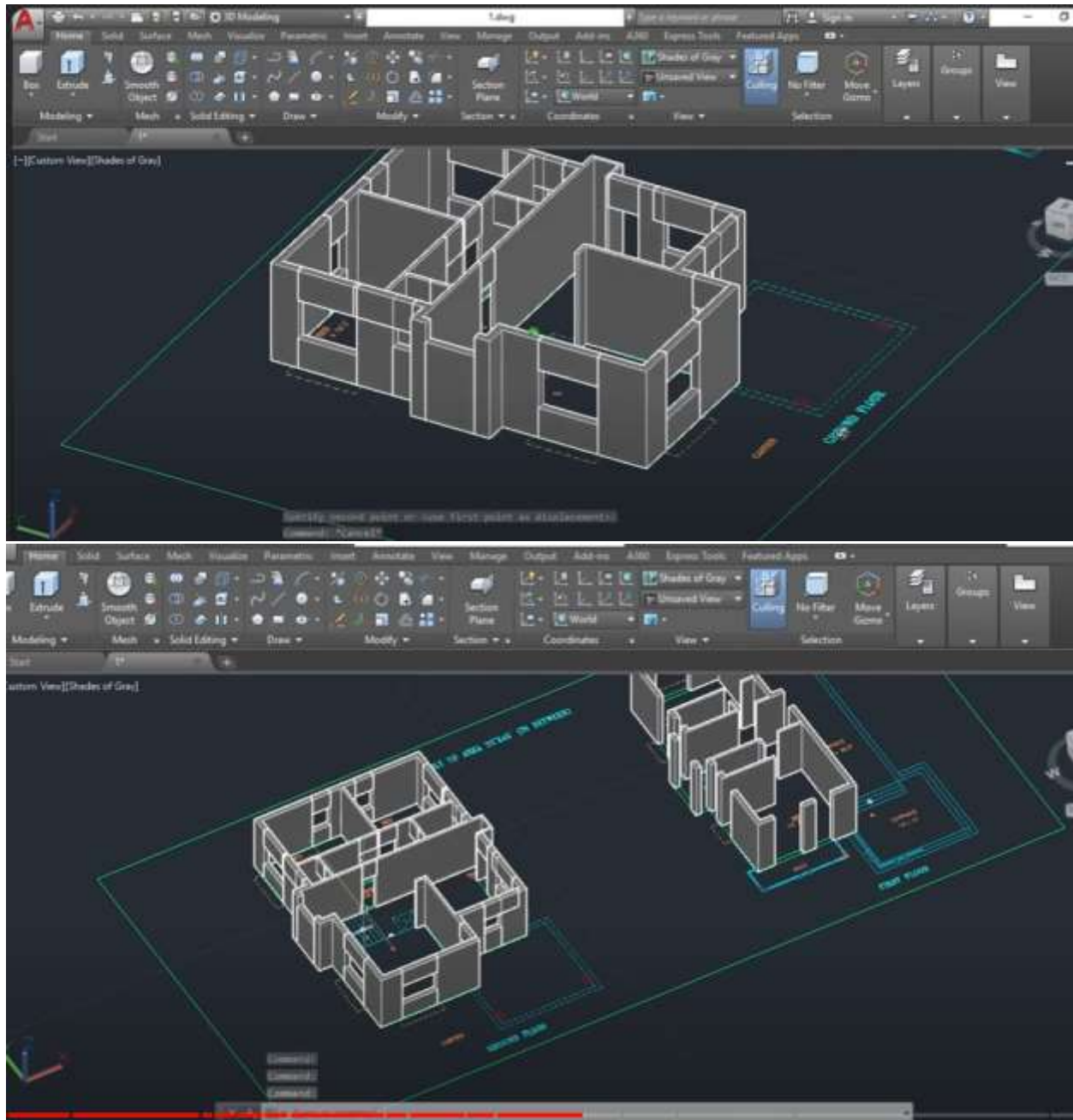
Rectangle Command(REC): Designing the layout of rooms and spaces.

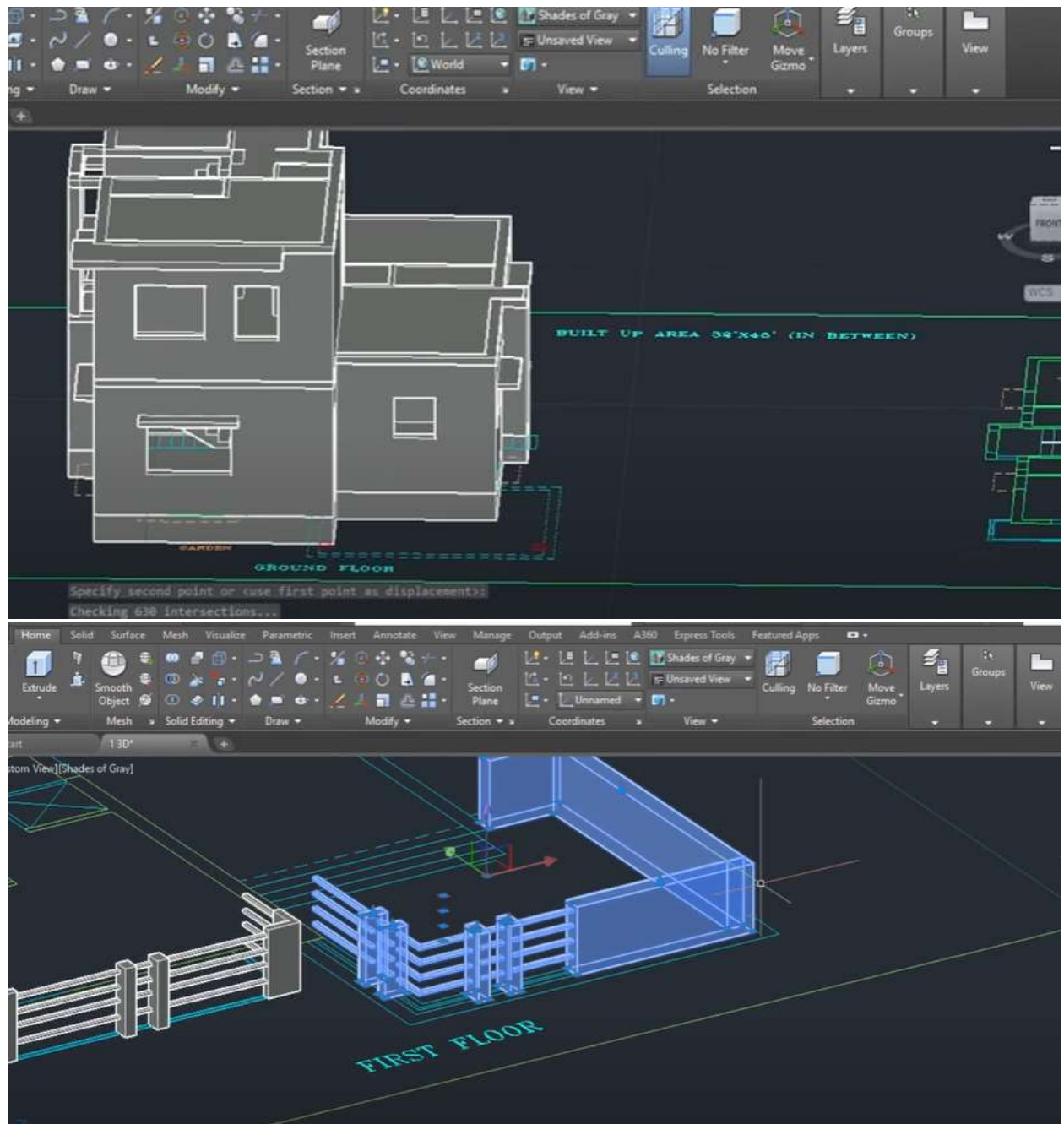
Copy Command (CO): Duplicating elements for consistency across rooms.

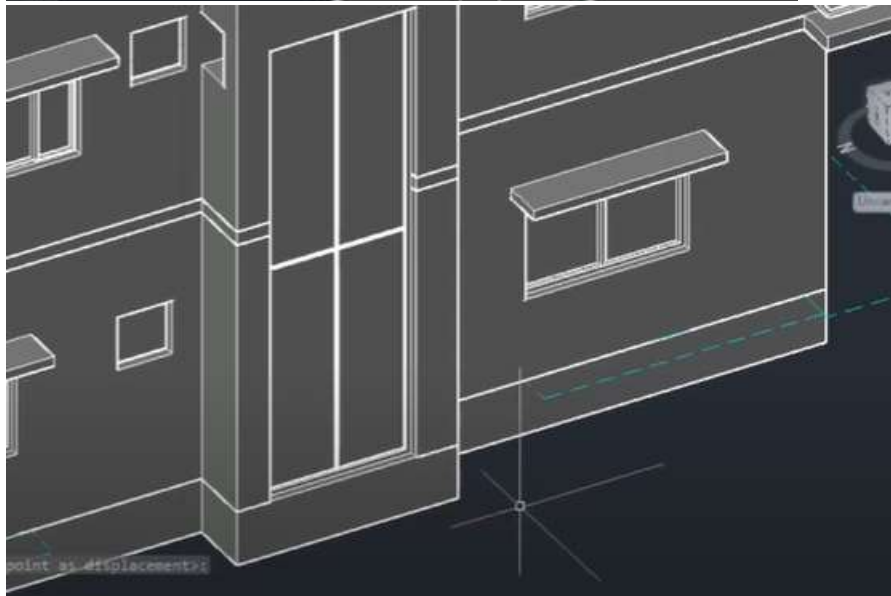
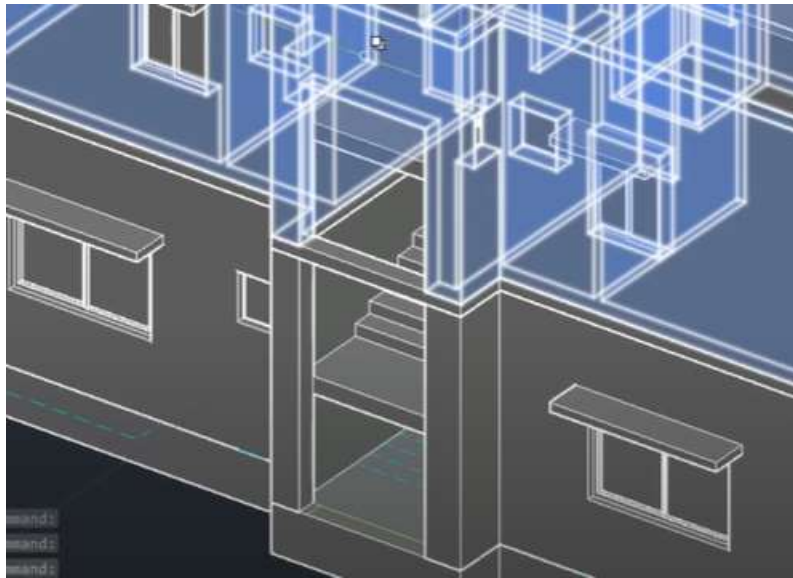
Array Command (AR): Replicating similar design features in multiple areas.

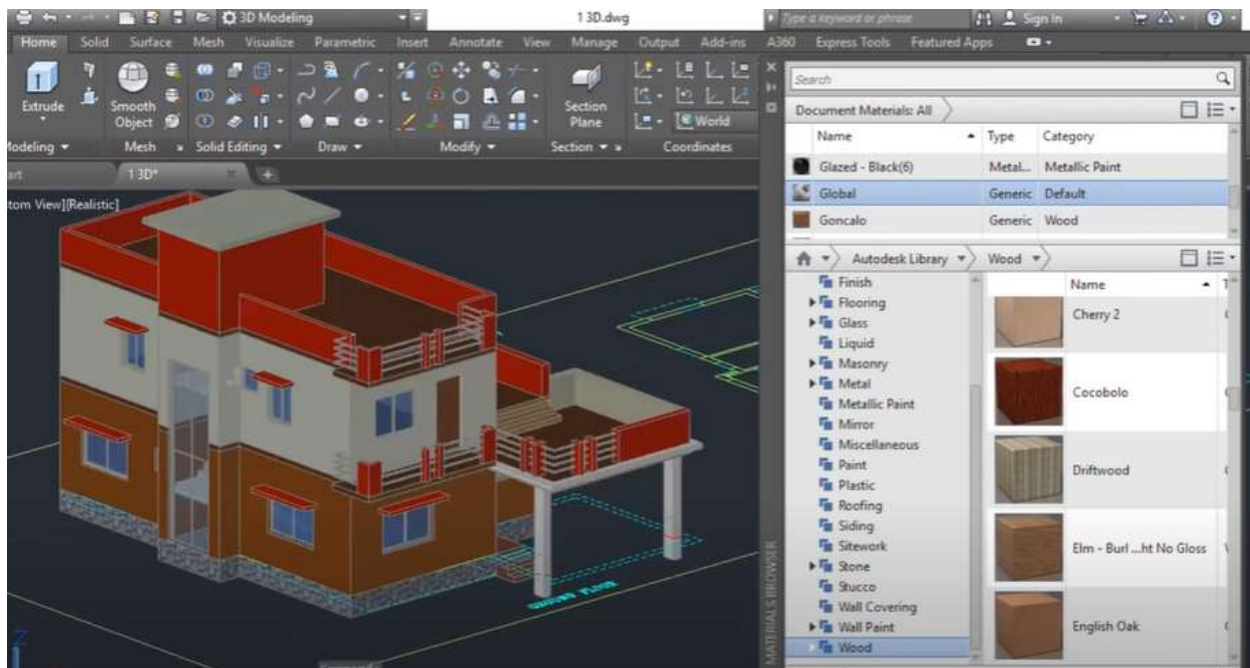
Text Command (TEXT): Adding annotations for room labels and dimensions.

Block Command (BLOCK): Creating reusable blocks for common elements within rooms.





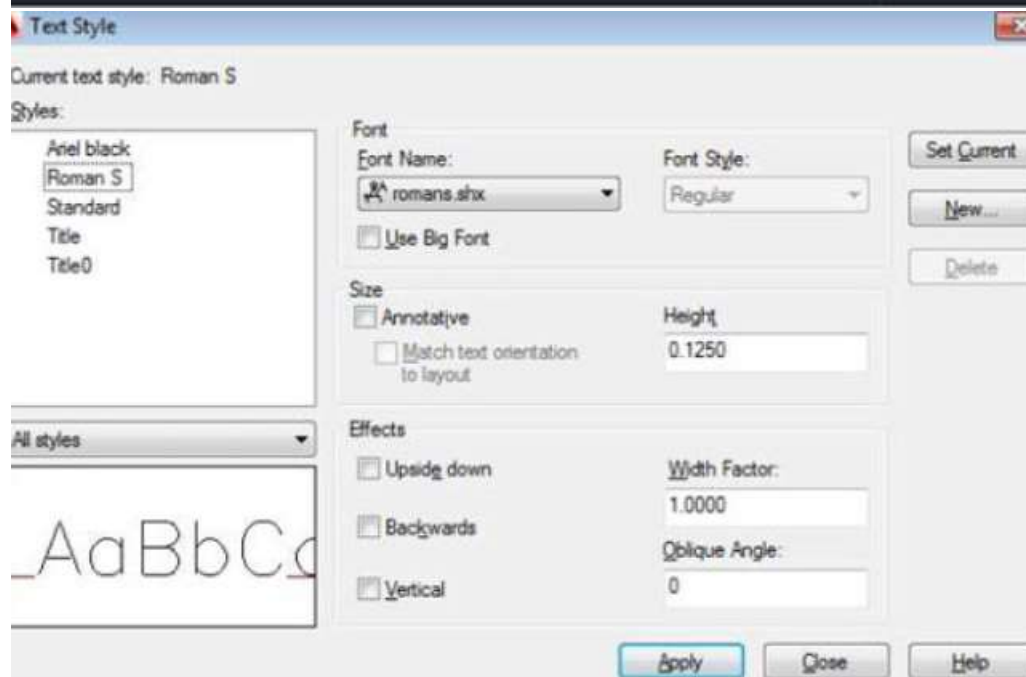
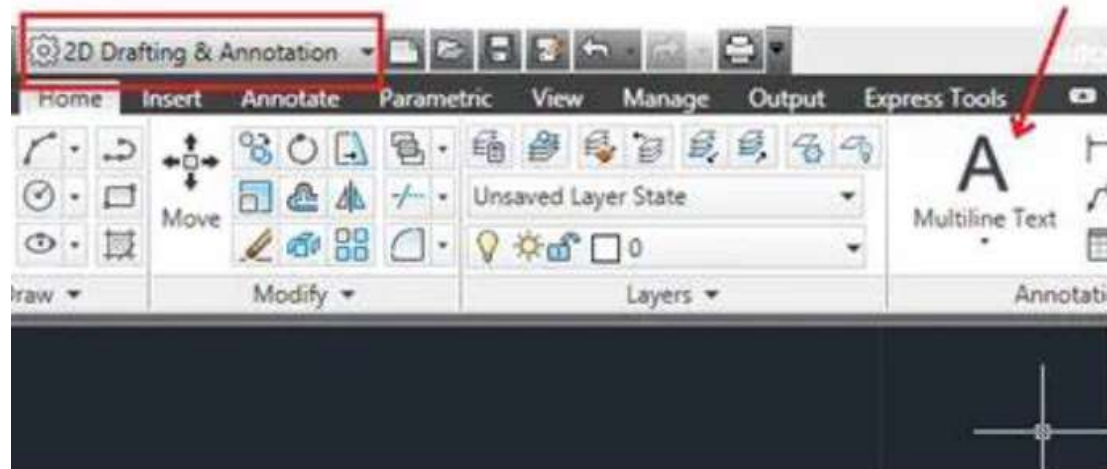


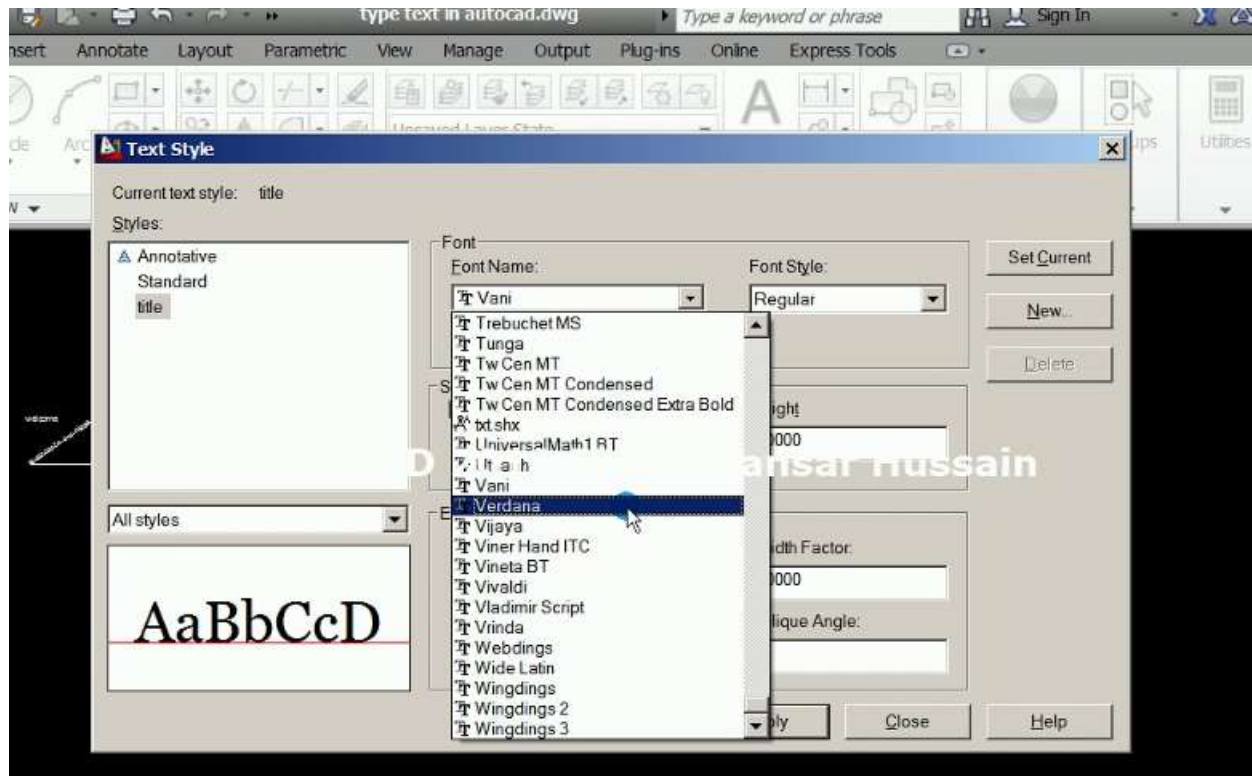


6. Additional Considerations:

6.1 Textures and Materials:

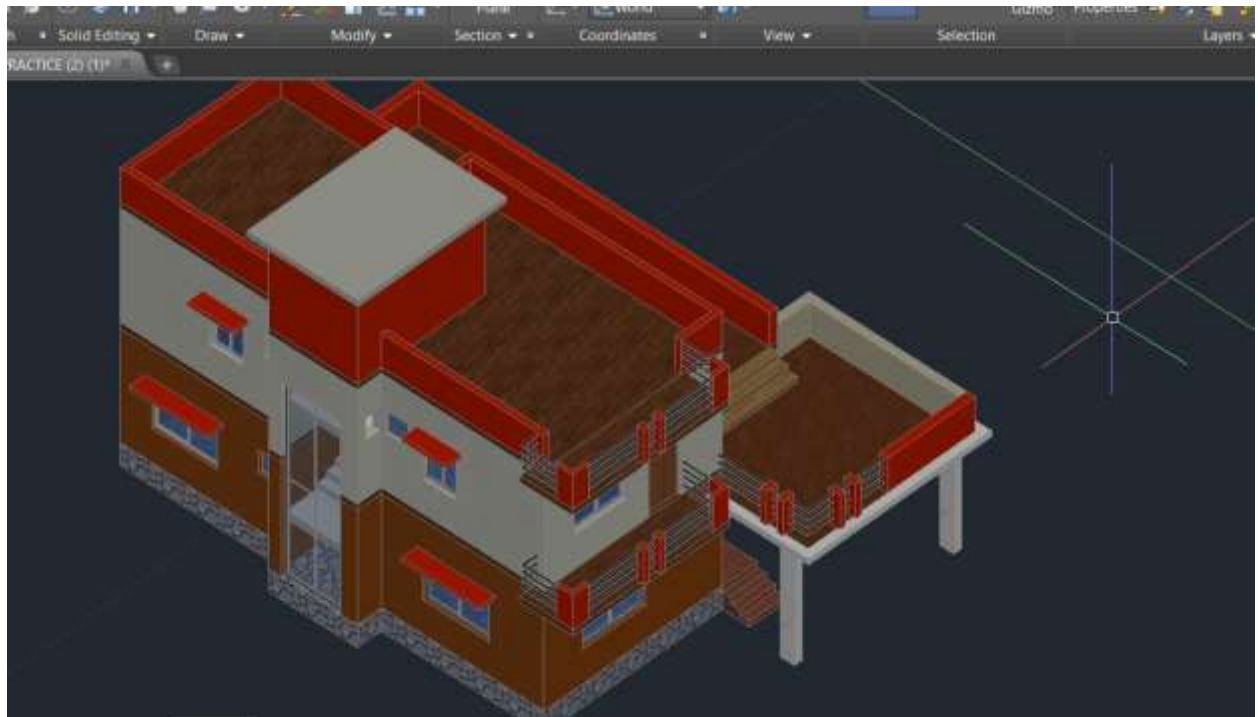
Consideration will be given to using various textures and materials within the AutoCAD drawing to simulate real-world building materials. This includes the use of different hatching patterns for interior finishes like tiles, carpet, and hardwood.

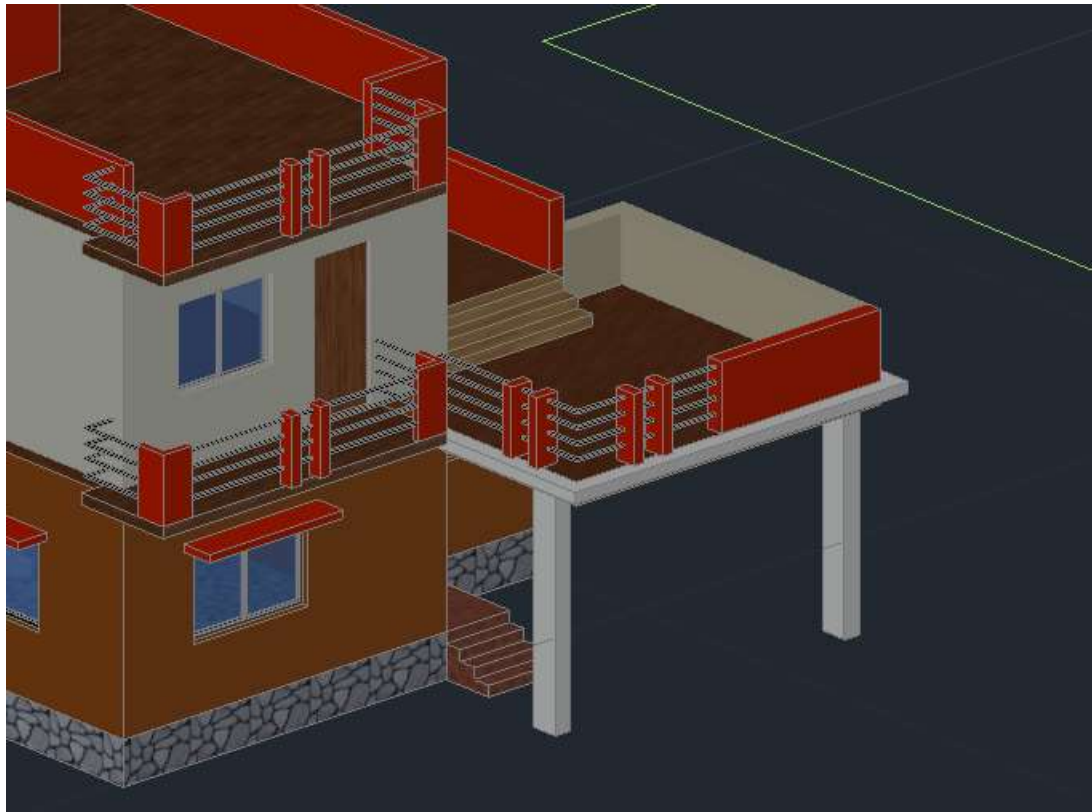




7. Conclusion:

The project aims to deliver a visually striking representation of a double-building house complex, focusing on both exterior architectural elements and interior room configurations. The comprehensive drawings and specifications will provide a clear understanding of the project's scope, aesthetics, and livability.







10. Acknowledgments:

The successful completion of this project is attributed to the collaborative efforts and dedication of the project team, drawing inspiration from a variety of architectural styles, design principles, and functional room layouts.

12. Appendices:

Detailed AutoCAD drawings, including plans, elevations, sections, and 3D renderings of both exterior and interior spaces.