



Modern Duplex Home with Yard

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Outline



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Objectives



- Create a 3D model of a modern duplex home with realistic architectural details.
- Integrate a functional yard with a garden for added realism.
- Implement textured walls, floors, and roof using high-quality materials.
- Add stairs with precise alignment and positioning.
- Use advanced lighting for enhanced visual appeal.
- Ensure scalability and flexibility for future modifications.

Introduction



- The project focuses on creating a 3D model of a modern duplex home with detailed architectural features.
- It incorporates a functional yard and garden for a realistic and appealing environment.
- Emphasis is placed on realistic textures and materials for walls, floors, and other elements.
- The model includes functional stairs and other structural details with accurate alignment.
- Advanced lighting techniques are used to enhance the visual experience.
- The design is scalable and adaptable for future modifications or expansions.

House



- Drawing Room 2x1
- Bed Room type-1 2x1
- Bed Room type-2 2x1
- Washroom 2x1
- Kitchen 2x1

House (Continue)

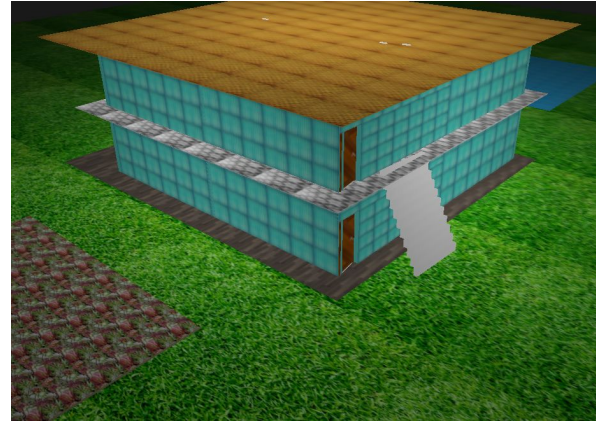
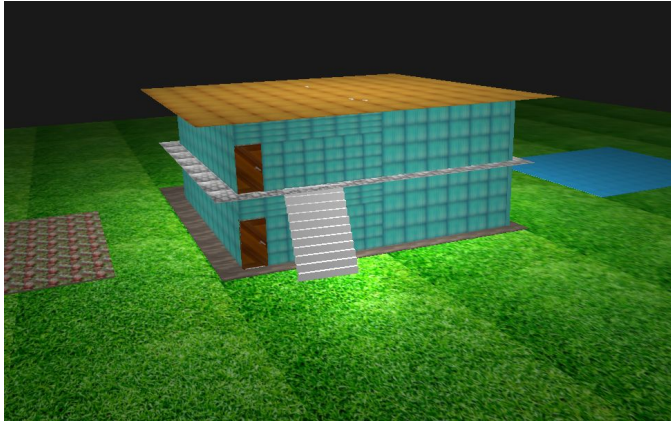


Figure 1 :Overall House in bird view

Pool and Garden

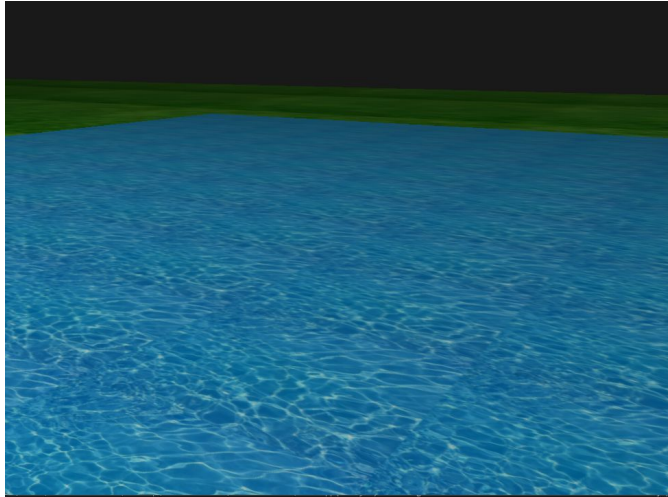


Figure 2 : Swimming Pool (left) and Garden (right)

Stairs

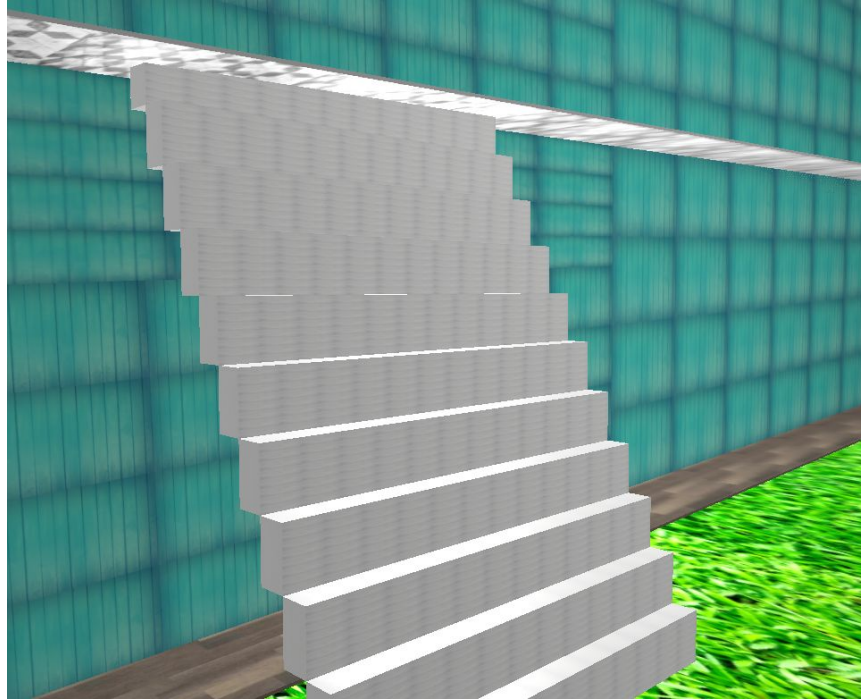


Figure 3 :stairs

Drawing Room



Figure 4: drawing part 1 and part 2

Bed Room Type 1



Figure 5: Bed Room Type 1 – part 1 and part 2

Bed Room Type 2

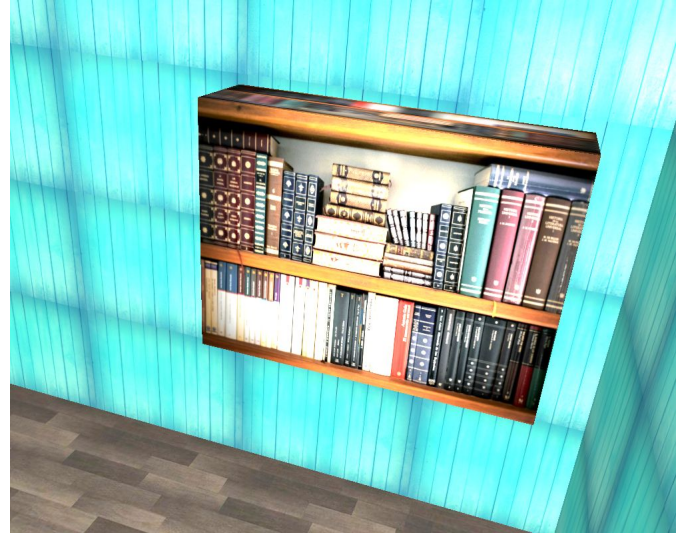


Figure 6: Bed Room type 2 part 1 and part 2

Kitchen



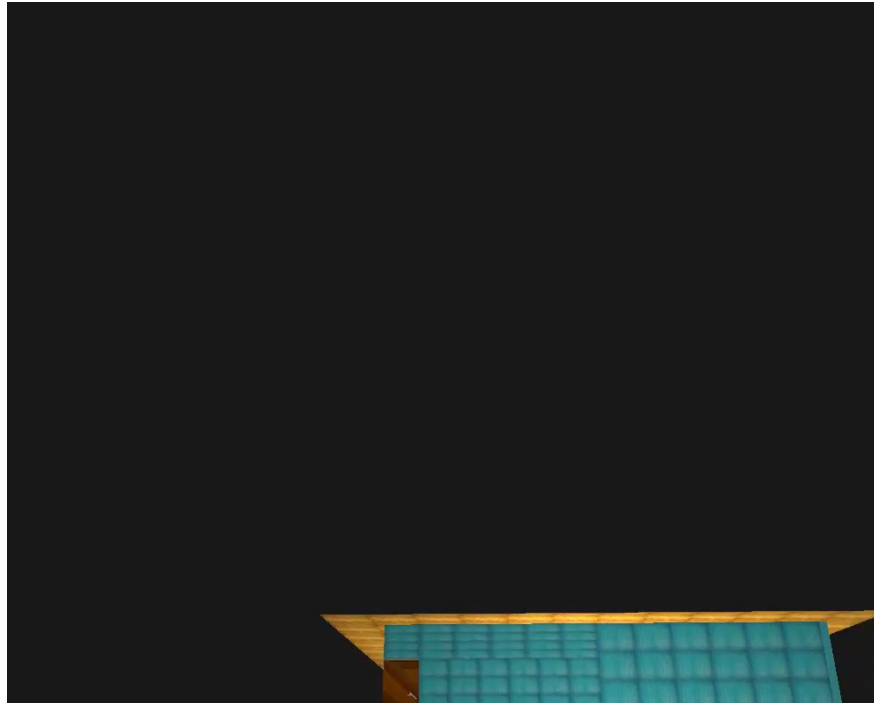
Figure 7: Kitchen part 1 and part 2

Washroom



Figure 8: Washroom containing a bucket

Video Demonstration



Reference



[1] OpenGL tutorial(<https://learnopengl.com/>)

[2] Resource provided in the class



Thank you