

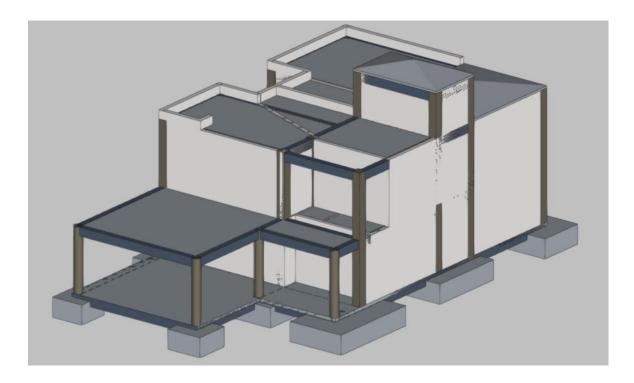


Erasmus+ Project 2022-1-NO01-KA220-HED-000087893

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BIM-LCA Construction Project

Title: Single-family house with Cype Architecture







1 – Aims

The objectives of this tutorial are as follows:

- Knowing about a CAD software to create three-dimensional models of buildings.
- Learning how to create floors and import drawing templates.
- Identifying and correctly entering the structural elements.
- Configuring and introducing architectural elements.

2 - Learning methodology

The teacher will give an explanation about modelling of single family house with Cype Architecture in about 30 minutes.

Students will read this tutorial and follow the steps shown in the tutorial, namely:

- Knowing the interface and operation of Cype Architecture.
- Introduction of structural elements.
- Introduction of architectural elements

In order to evaluate the success of the application, students will prepare a report on the steps taken in practice, difficulties faced and decisions taken.

3 - Tutorial duration

The implementation described in this tutorial will be carried out through the Cype Architecture software.

3 lesson hours are suitable for this training.

4 – Necessary teaching recourses

Computer room with PCs with internet access.

Required software: Cype Architectur





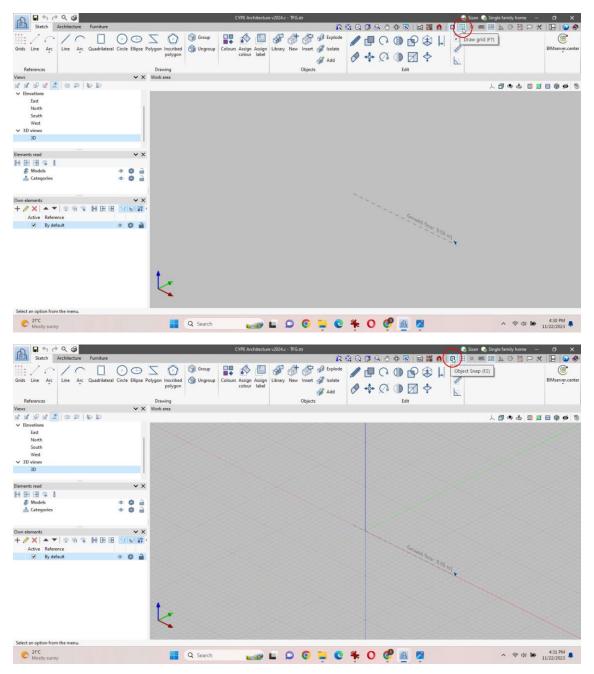
5 - Contents & tutorial

5.1 Tutorial

CYPE Architecture can be used to design the model of the building. The building is a two storeyed family house. The step by step process of modelling the building is described below:

5.1.1. Model design

Firstly, it is recommended to activate the drawing grids and object snap feature for design convenience.









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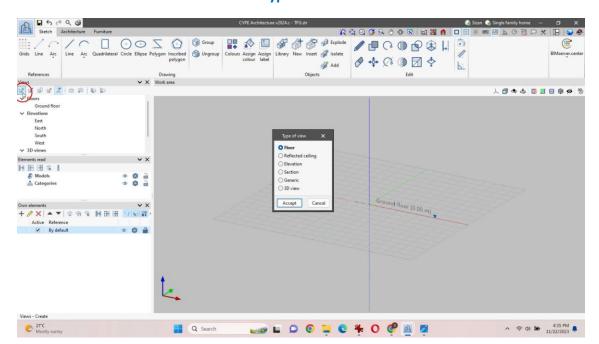
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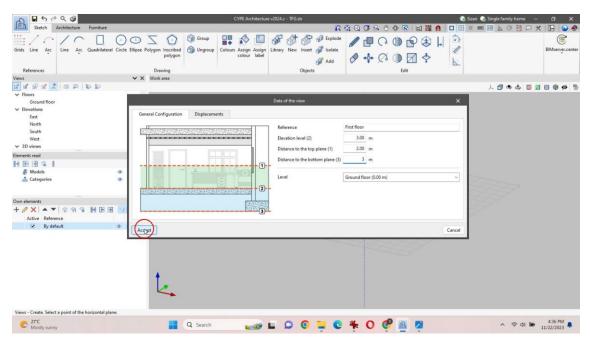
Use this app icon to create a new floor and its elevation levels.







By inserting the correct elevation levels, you can create the first floor, second floor and roof.







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In CYPE Architecture, you can import drawing templates for precise modelling. Click this icon to insert drawing templates.





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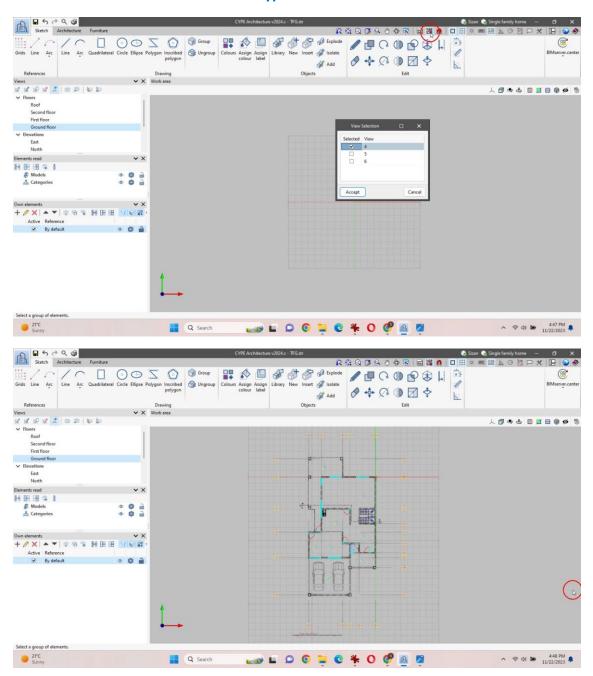
5.1.2. Ground floor

5.1.2.1 Inserting template

Firstly, Select *Ground floor* and then import the template as shown in the image below. Template '4' is the floor plan of the ground floor.





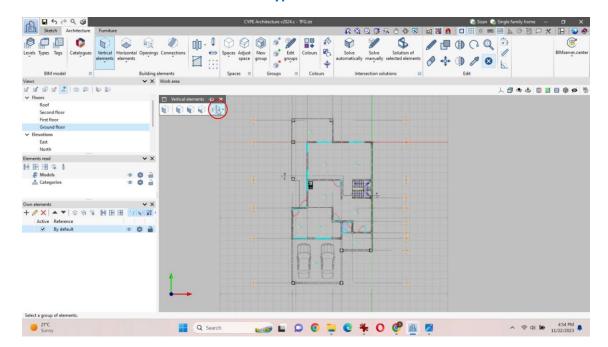


5.1.2.2 Columns

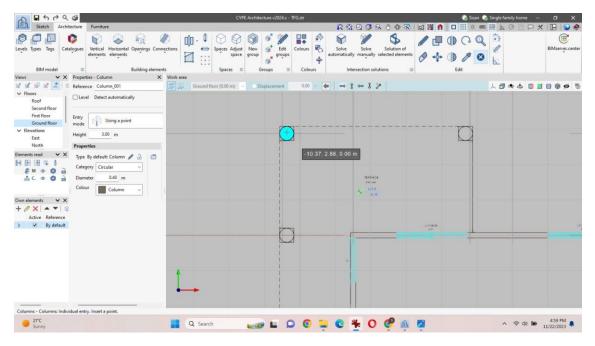
To draw columns, select *Vertical elements* the click the icon as shown in image below.







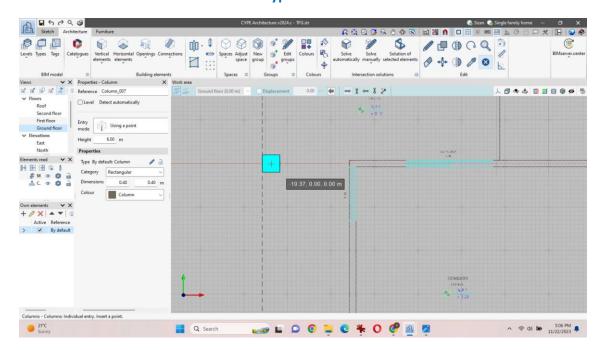
For circular columns, enter the respective category and column size. Then, place the columns as per the template. Make sure to right-click at the end to complete the task.



Proceed similarly for rectangular columns.







5.1.2.3 Walls

Walls can be drawn as shown in figure below.

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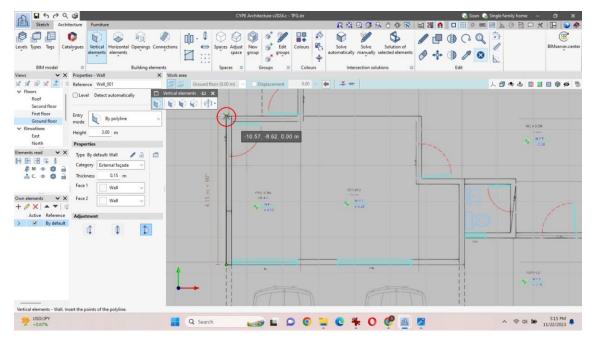
Enter the dimensions of the wall and then click the first point.





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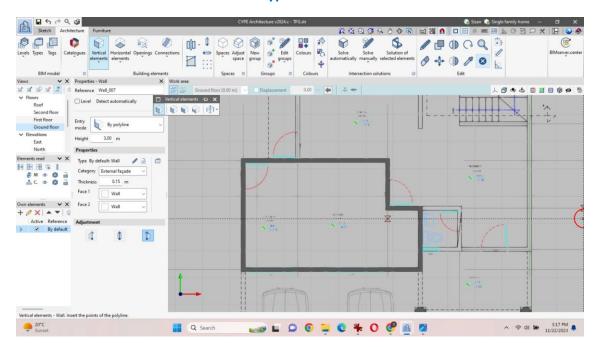
Then, click the end point. Make sure that the adjustment is set as per design.



All the other walls can be drawn by following the same procedure as shown above.







5.1.2.4 Slab

To draw slab, proceed as shown in the image below.

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Enter the thickness of slab and its category. Click the corners of the slab and then rightclick at the end to draw the slab.





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All the other columns, walls and slabs can be drawn similarly using the procedure as shown above. In this way, the ground floor design can be completed.

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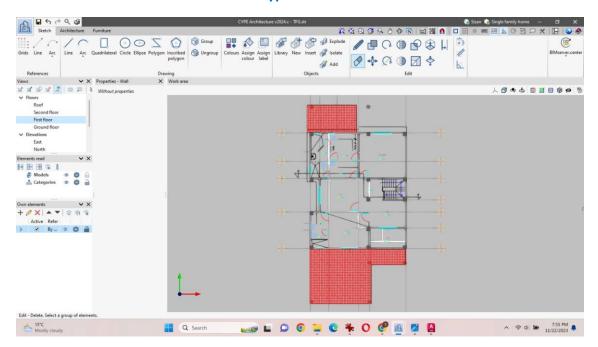
5.1.3 First floor

5.1.3.1 Inserting template

Insert the drawing template for first floor using the same process as that for the ground floor.

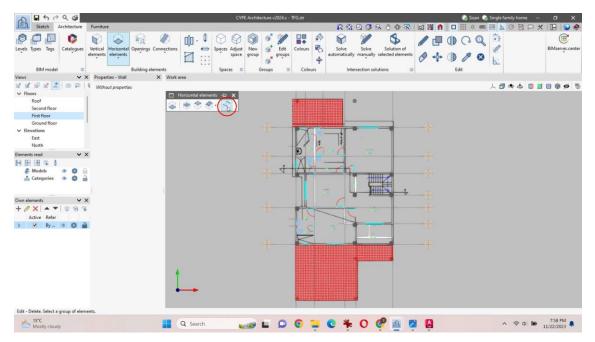






5.1.3.2 Beams

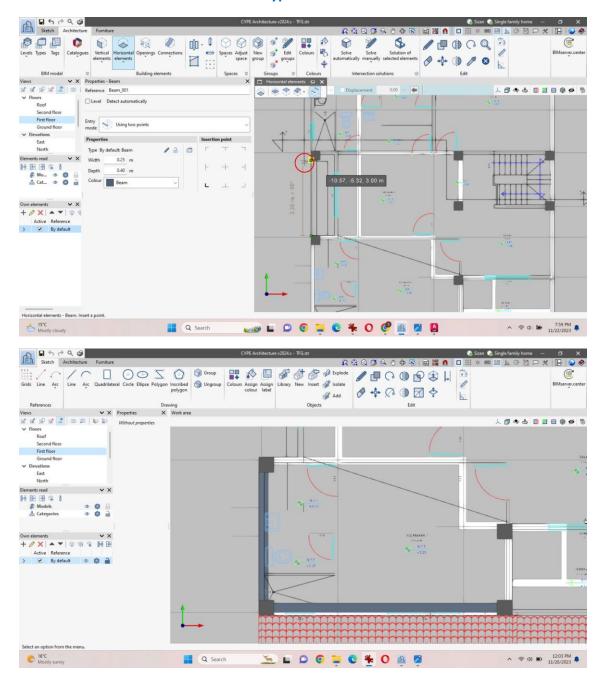
To draw beams, Select Horizontal elements and click the icon as shown below.



Enter the width and depth of the beam and make sure that the insertion point is adjusted as per the beam orientation. Then, Select the end points of the beam and right-click.







All the other beams can be drawn similarly.

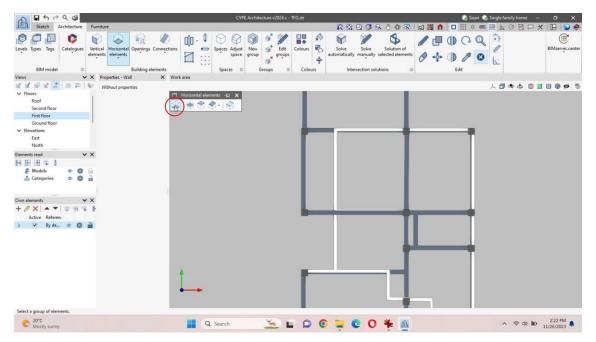




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5.1.3.3 Slab

The procedure for drawing slab is also similar to that for the ground floor. 'Intermediate floor slab' is selected in the category instead of 'Screed'.



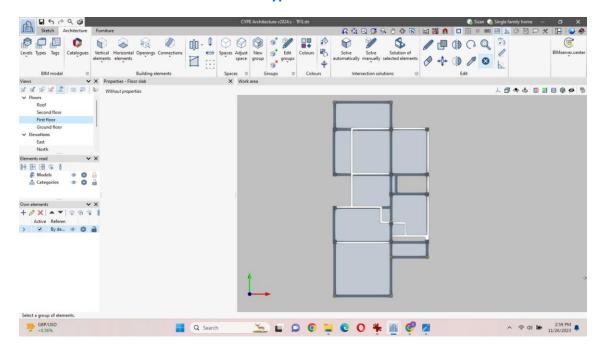




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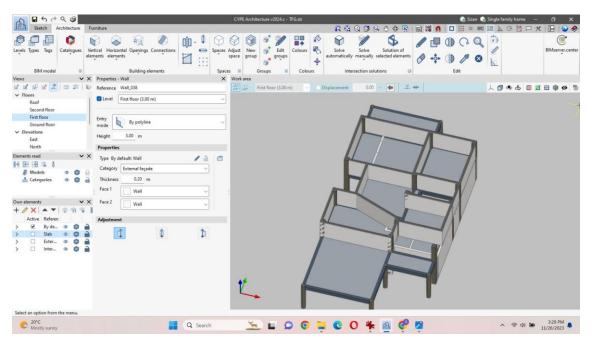






5.1.3.4 Walls

Walls can also be drawn by following the same process as that used for the ground floor.

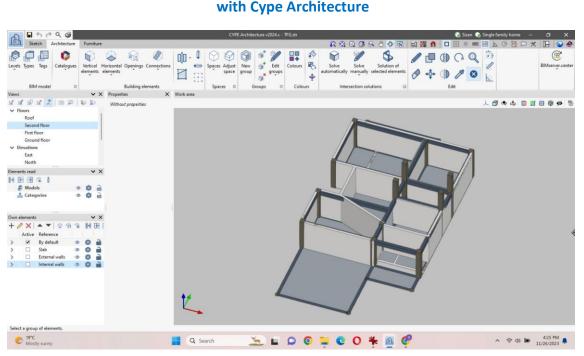


5.1.4 Second floor

The beams, walls and slabs of the second floor are also drawn similarly.



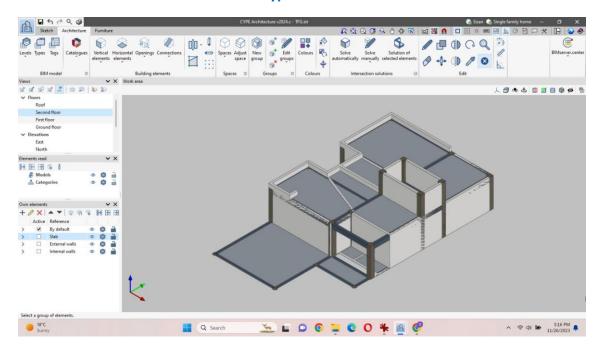




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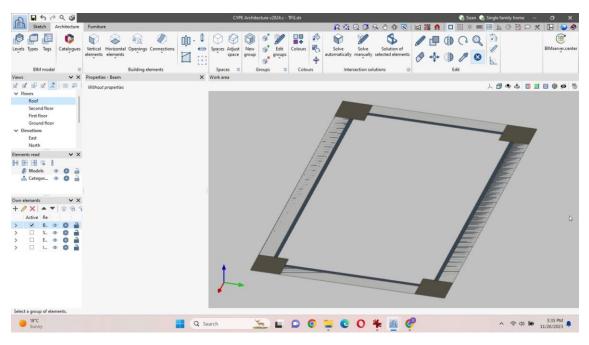






5.1.5 Roof

Firstly, the roof beams are drawn.

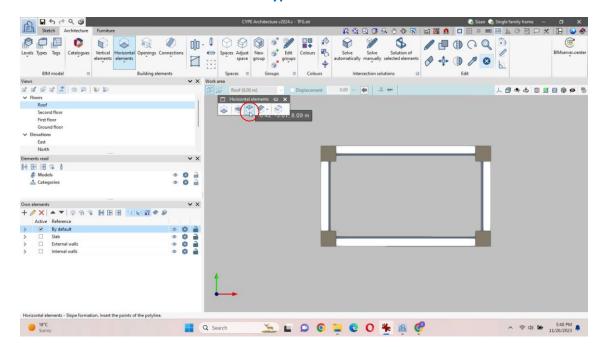


5.1.5.1 Roof slope

For slope formation, click the icon as shown in the image below.







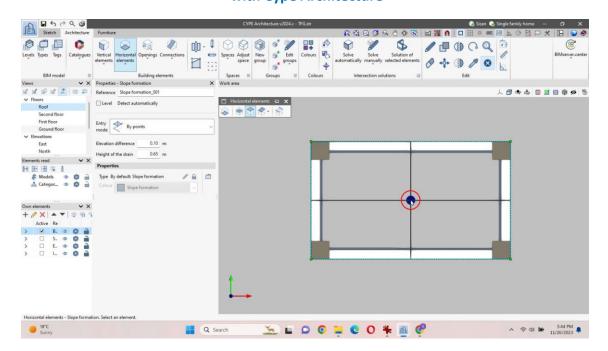
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Lastly, select the roof vertex and right-click to complete the slope formation.







Thus, roof slope can be drawn.

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5.1.6 Foundation

To draw the foundation, firstly create a new floor 0.15m below ground level called Foundation level.





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Then, import the template for foundation similar to that for other floors as done above.

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Insert circular and rectangular columns according to the template as shown in the images below.



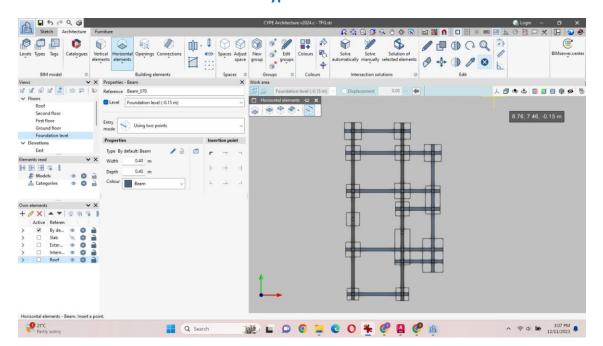


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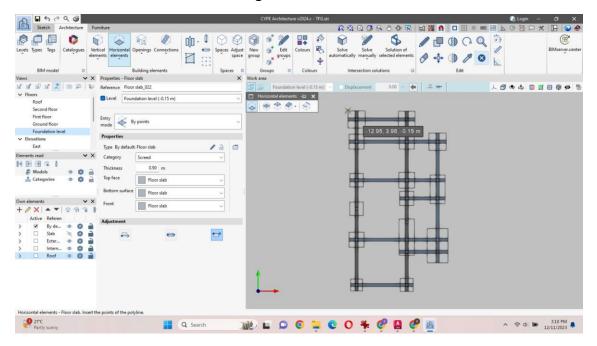
Then, draw beams by following the same procedure as that for other floors.







Finally, foundations can be drawn as slabs with the depth of foundation as the thickness of slab as shown in the images below.



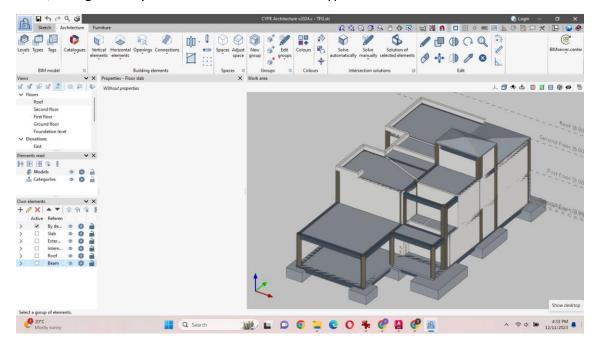
Similarly, all the footings can be drawn.





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Thus, a single family house can be drawn with Cype Architecture.







References

[1] 'Block VII: 3D BIM Modelling', https://bimvet3.eu/courses/block-vii-3d-bimmodeling-minecraft-revit-and-tekla/.

6 - Deliverables

To evaluate the success of the application, students will have to prepare a report on the steps taken in practice, difficulties faced and decisions taken.

7- What we have learned

To create a three-dimensional model of building using Cype Architecture.

To insert structural and architectural elements in the building.