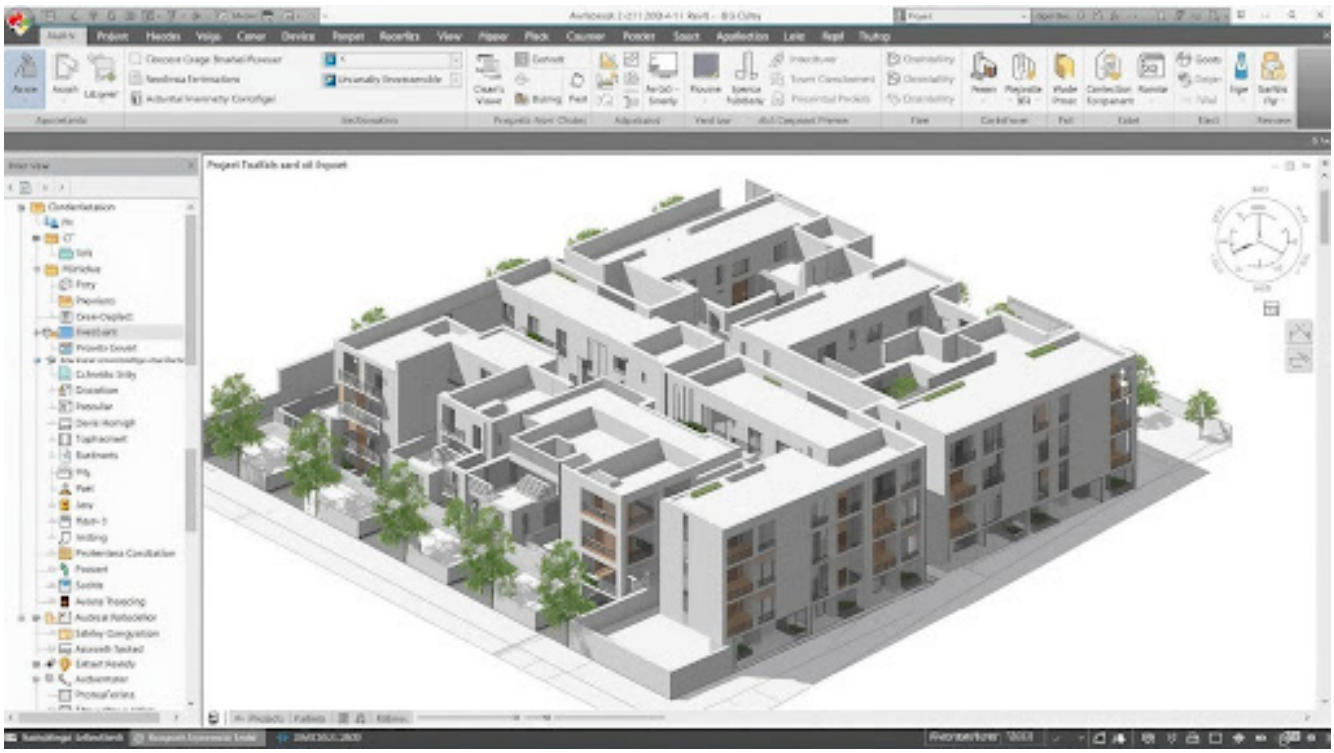
Architectural BIM Modeling & Concept Design Development for Luxury Residential Development

(BIM Modeling, Concept Design Development & Coordination Support Services)

CASE STUDY

TECHTURE

Client	: Residential Developer	**Team Size**	: 4 No.s (BIM Engineer & BIM Coordinator)
Disciplines	: Architecture	**Duration**	: 2 Month
Type	: Residential	**Software**	: Autodesk Revit
Location	: Palm Jebel Ali,Dubai,UAE		



Project Overview

Techture delivered architectural BIM modeling and concept design development for a luxury residential project. The scope focused on creating high-quality BIM models and concept designs for multiple residential unit types. Using Autodesk Revit, the team translated design intent into coordinated digital models. The outcome enabled efficient design development and early-stage coordination across disciplines.

Scope and Deliverables

- Develop architectural BIM models for 1, 2, 3 bed units & 4 bed townhouses.
- Prepare concept drawings reflecting design intent, profiles & dimensions.
- Incorporate client comments, markups & revisions into concept development.
- Provide design inputs for coordination with architecture, structure & MEP teams.

Challenges

- Balancing luxury design intent with functional space planning requirements.
- Managing iterative concept revisions and client-driven design changes.
- Ensuring alignment across multiple unit types and design variations.

Techture Approach

- Developed parametric BIM models aligned with concept design requirements.
- Integrated client feedback through structured revision workflows.
- Ensured early-stage coordination inputs for multidisciplinary alignment.
- Delivered clear and detailed concept drawings for design validation.

Benefits

- Enhanced design clarity with well-defined BIM-based concept models.
- Improved coordination through early-stage multidisciplinary inputs.
- Reduced rework with efficient revision and feedback integration.
- Enabled scalable development with standardized residential unit modeling.