

INTAKE 01 PRODUCT VISION STATEMENT

Project Code:	BIMAD01-SV-01-GenQ	Program (Dept./Track):	BIM Automation Development
Product Title:	GenQ - A BOQ Auto Generating Tool		
Group Name:	GenQ Team	Main Supervisor Name:	Ahmed Mohyeldin

GenQ - A BOQ Auto Generating Tool

Needs:

- The AEC industry has a big need for automation in general, especially in processes that take days and weeks and even months of working from many people, like BOQs preparing, too time-consuming and data-based process.

Solution:

- GenQ:** Is a fully-detailed BOQ auto generating tool from Revit models. It can:
 - Filter all model's elements by their Categories, Families, and Types and display them in a tree-view.
 - Ability to include or exclude the external linked models to the core model in the filtration process.
 - Ability to filter by all levels or by a specific one or by some of them.
 - And most importantly, can generate a fully-detailed and well-structured BOQs xls file with elements positioned according to the CSI MasterFormat.
 - Can generate a ready-to-print PDFs files for the BOQs.
 - Can receive/send the Rate and Description's data for each type from/to the Revit.

Tools Used:

- Back-End:** .Net Framework.
- Front-End:** WPF.
- Third-Parties:** EPPlus Spreadsheets Package + MS Office Interop.

Value:

- Immediate and fast automated indicating for all model's elements and sorting them in a tree-view.
- A time-Saver tool for such an extremely time-demanding process like BOQs preparing, therefore a cost-saver tool.
- A user-friendly tool.
- Simple tool, one window and in one platform tool.

Target Audience:

- Owners' Project Managers.
- Consultants.
- Main Contractors.