**✅ Models (models.py)**

* Nodes, Elements, Supports, and Loads are properly defined.
* Coordinate strings (like "x,y,z") are used consistently as identifiers across models (esp. for Elements, Loads, Supports).

**✅ Calculations**

* You’ve cleanly split responsibilities:
  + element\_length.py, direction\_cosines.py, transformation\_matrix.py → all compute geometry-related values.
  + local\_stiffness\_matrix.py, global\_stiffness\_matrix.py → compute element-level stiffness matrices.
  + generate\_dof\_indices.py → correctly computes DOF indexing using node order from DB.
  + generate\_load\_vector.py → assembles global load vector P.

**✅ Views**

* Modular, with dedicated views for:
  + Nodes, Elements, Loads, Supports
  + DOF Indices
  + Global stiffness matrix per element
  + Load Vector