# BPMN modeler UI

## A practical feature checklist

| Feature | Sub-features | Supported by JointJS+ |
|---|---|---|
| **BPMN 2.0 shapes** | ✓ Complete shape library | ✓ |
| **BPMN 2.0 semantic constraints** | ✓ Constraints enforced during user interaction<br>✓ Pool containment hierarchy<br>✓ Sequence flow restrictions | ✓ |
| **Canvas navigation** | ✓ Zoom and scroll<br>✓ Infinite canvas<br>✓ Fit to content<br>✓ Touch support<br>✓ Configurable keyboard shortcuts | ✓ |
| **Link routing** | ✓ Orthogonal and straight routing<br>✓ Allows manual editing of connection points<br>✓ Allows manual editing of vertices<br>✓ BPMN link styling and markers<br>✓ Link labels | ✓ |
| **Element palette** | ✓ Configurable palette curation<br>✓ Drag-and-drop with grid snapping<br>✓ Custom drag preview<br>✓ Snaplines | ✓ |
| **Undo/redo** | ✓ Compound operations<br>✓ Aware of contained and attached elements | ✓ |
| **Property panel** | ✓ Contextual display based on current selection<br>✓ Configurable fields<br>✓ Input validation<br>✓ Conditional visibility<br>✓ Grouping and ordering<br>✓ Complex input | ✓ |
| **BPMN 2.0 XML import/export** | ✓ Import BPMN 2.0 XML<br>✓ Export BPMN 2.0 XML<br>✓ BPMN schema compliance<br>✓ Engine extensions round-trip safety | ✓ |
| **Process validation** | ✓ BPMN structural validation<br>✓ Engine-specific validation<br>✓ Allows presenting validation errors in UI | ✓ |

| Feature | Sub-features | Supported by JointJS+ |
| --- | --- | --- |
| **Rendering performance at scale** | ✓ SVG with virtual rendering | ✓ |