# Adhyan POM Studio - Full Patch (Previous vs Upgrade with Copy Buttons)

## Phase 1: Core Helpers

Previous Code:

// Previous Version - Core Helpers  
function xpathLiteral(s){  
 return '"' + s + '"'; // simple literal (did not handle quotes properly)  
}

Upgraded Code: (with inline comments + copy-to-clipboard hint)

// Upgrade - Robust Core Helpers  
function xpathLiteral(s){  
 s = String(s);  
 if (s.indexOf('"') === -1) return '"' + s + '"';  
 if (s.indexOf("'") === -1) return "'" + s + "'";  
 const parts = s.split('"');  
 const out = [];  
 for (let i = 0; i < parts.length; i++){  
 if (parts[i] !== '') out.push('"' + parts[i].replace(/\\/g,'\\\\') + '"');  
 if (i < parts.length - 1) out.push("'"'");  
 }  
 return 'concat(' + out.join(',') + ')';  
}  
  
// === Copy to Clipboard Example ===  
// (You can attach this to a button in HTML)  
function copyUpgradeCode(){  
 const code = `function genBasicXPath(el){  
 const tag = el.tagName.toLowerCase();  
 if(el.id) return `//\*[@id="${el.id}"]`;  
 return `//${tag}`;  
}`;  
 navigator.clipboard.writeText(code).then(()=>alert('Upgrade code copied!'));  
}