

# Shipyard IMS

An ERP-class inventory and hull-costing platform for a shipyard, running entirely in a browser tab.

## PROBLEM

A working shipyard tracked materials and hull project costs the way most SMEs do: a pile of Excel workbooks, reconciled by hand. FIFO costing across dozens of supplier invoices is not something to do by hand every week, and getting it wrong shows up directly in the margin. They needed the rigour of an ERP, not an ERP rollout: no cloud subscriptions, no login server, no IT approval cycle.

## APPROACH

Built as a single self-contained web app (HTML, CSS and vanilla JavaScript with ExcelJS bundled in) that opens like any local file. A costing core holds lots, supplier invoices, issuances and billing milestones as plain data structures. A persistence layer uses the File System Access API to open and save the user's Excel workbook, backed by localStorage snapshots and rolling auto-backups.

## OUTCOME

**~82k**

allocations handled in-browser

**0**

servers to run or approve

**v5**

in real production use

The shipyard now runs its inventory and hull project costing out of a browser tab. FIFO lots reconcile automatically, billing tracks payment milestones, and the numbers export straight back to Excel. Deployment is copying a file: no IT ticket, no migration, no subscription.

Vanilla JS

ExcelJS

File System Access API

localStorage

FIFO costing engine

Zero build step