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Software House Ecosystem

XERPIUM SOFTWARE HOUSE is an end-to-end software project management solution — from product backlog, sprint planning, phase-based waterfall, team allocation with roles, technology stack management, to budget tracking & profitability analysis.

Scrum Framework

Product Backlog — User stories with story points, priority, acceptance criteria

Priority Levels — Low, Medium, High, Critical

Story Points — Effort estimate per user story

Sprint Planning — Sprint with capacity planning (story points)

Sprint Goal — Specific goal per sprint

Task Breakdown — User story → tasks in project.task

Velocity Tracking — Completed points per sprint, auto-computed

Completion Rate — % of backlog items completed per sprint

Waterfall Methodology

Project Phases — Sequential phases with sequence, start/end date, milestone

Gate Approval — Gate approval before moving on to the next phase

Predecessor — Phase dependency with predecessor validation

Phase States — To Do → In Progress → Review → Done

Deliverables — Deliverable documents per phase

Phase Tasks — Related tasks per phase

Gate History — Who approved the gate & when (timestamps)

Validation — Automatically validate predecessor before phase start

▣ Kanban & Hybrid

Kanban Board — Visual task management in project.task

Task Types — Feature, Bug, Technical Debt, Spike

Story Points per Task — Effort estimate straight at task level

Sprint Assignment — Tasks can be put into a specific sprint

Backlog Link — Task linked to backlog user story

Phase Link — Tasks can be linked to a phase (waterfall)

Flexible — Methodology selectable per project

▣ Budget & Profitability

Contract Type — Fixed Price, Time & Material, Milestone Billing

Project Budget — Budget moneter per project

Cost Tracking — Actual hours from timesheet automatically

Avg Hourly Rate — Configurable cost per hour (default Rp 150,000)

Profitability — Compute % profitability: $(\text{budget} - \text{actual cost}) / \text{budget} \times 100$

Sale Order Link — Project linked to sale.order

Estimated Hours — Estimated work hours per project

Currency — Multi-currency via company currency

Team Allocation

Employee Allocation — HR allocation per project with specific roles

Roles — Project Manager, Business Analyst, Developer, QA Engineer, DevOps, UI/UX Designer

Date Range — Allocation period: start date & end date

Hours/Week — Working hours per week per allocation

Total Hours — Total hours computed from weeks × hours_per_week

Validation — End date > start date, hours 0.1-168 per week

Notes — Notes per allocation

HR Integration — Uses the existing hr.employee

Technology Stack

Tech Catalog — List of technologies used by the company

Categories — Frontend, Backend, Database, DevOps, Mobile, Other

Color Tag — Visual color coding per technology

Project Mapping — Many2many to project: technologies used

Unique Name — Unique constraint per technology name

Stack Filter — Filter projects by technology stack

Stack Diversity — See technology distribution across all projects

Portfolio View — Expose stack capabilities to the client

📌 User Story & Backlog

User Story — Format: As a... I want... So that...

Acceptance Criteria — Acceptance criteria per story

Story Points — Effort estimate (Fibonacci/linear)

Priority — Low, Medium, High, Critical

Status Flow — Backlog → In Sprint → In Progress → Done

Tag System — Multi-tag from project.tags

Assigned To — Developer in charge

Auto State — State changes automatically when the sprint is selected

📌 Sprint Management

Sprint Workflow — Planning → Active → Closed

Active Sprint — Only 1 active sprint per project (validated)

Capacity — Available story points for sprint

Goal Setting — Sprint goal to focus the team

Timeline — Start date & end date sprint

Close Wizard — Sprint close wizard for review & retrospective

Velocity History — See velocity from sprint to sprint

Task List — All tasks in the sprint

Project ↔ Accounting

Budget tracking via budget field

Timesheet → employee cost → profitability

Sale Order link for invoicing

Milestone billing integration

Project ↔ Timesheet

Actual hours auto-computed from timesheet

account.analytic.line for tracking

Unit amount sum per project

Hourly cost calculation

Project ↔ Sales

Project from sale.order

Contract type determines billing method

Fixed Price → single invoice

Milestone → phased invoicing

Project ↔ HR

Team allocation from hr.employee

Role assignment (PM, BA, Dev, QA, DevOps, Designer)

Hourly rate per employee

Capacity planning per role

Project ↔ Technology

sh.technology master data per category

Many2many tech → project mapping

Stack portfolio view

Filter project by technology

Project ↔ Reporting

Sprint velocity report

Project profitability report

Phase completion report

Team allocation utilization report

Xerpium ERP — xerpium.com

Contact us for a free demo

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