

0.1.0 / FUNCTIONAL PROTOTYPE

Vimstead Forma

The production plan and the work actually done

Vimstead Forma connects the technical details of a job, a human-approved operation plan and the results recorded during production. It is being developed for small and medium-sized manufacturing, assembly and repair businesses.

How a production job moves through Forma

- 01 **Technical brief.** An existing CRM item, its type, material, quantity and complexity provide the planning inputs.
- 02 **Duration prediction.** A local ridge regression model estimates operation minutes from training data.
- 03 **Operation sequence.** Rules select the route and schedule work around dependencies and work-centre availability.
- 04 **Human approval.** The planner reviews the estimated durations, makes corrections and approves an executable plan.
- 05 **Execution records.** Work is assigned to an operator; start, completion, actual minutes and a note are recorded.
- 06 **Model update.** Actuals remain linked to the prediction. After reviewing the data, the user explicitly starts retraining.

Implemented in 0.1.0

Versioned technical profiles; predictions and plan approval; work assignment; operation status, durations and notes; model version history; training CSV import; measurement CSV export; a printable plan and the original CRM PDF documents.

Planned development

Dedicated worker views on a phone, issue reporting, Lithuanian voice input, material quantities, rework records and operation photos. Extracted voice fields would be saved only after human confirmation. These features are not yet implemented.

Technical details and acquisition

Forma extends the original Upholia / baldu-rubai-crm codebase using Python, Flask, Jinja and SQLite. Plans link to the existing production items, preserving inquiry numbering, accounts, sessions and PDF documents.

Local setup	Python 3.9 or later, a browser and a local Flask server. The demo is accessible only on that computer and needs no paid AI service keys.
Data and model	The initial model uses synthetic examples. Data origin, model version and held-out error are shown. The training set is capped at 12,000 rows.
Scheduling limits	Monday-Friday, 07:00-15:00 UTC, one capacity per work centre; no holidays or shift changes. The route catalogue is limited. This is not a full ERP or inventory system.
Access and backups	Existing sessions, CSRF protection and SQLite backups are used. Restore has been tested. A production access and operating plan must be agreed separately.

Functional verification

64 automated tests and 43 HTTP checks of a separately unpacked release were completed using synthetic data. These verify behaviour, not accuracy in a customer business, customer outcomes or time savings.

Availability and commercial terms

Version 0.1.0 is a functional prototype. Production availability, pricing, licence and support terms have not yet been published. Contact us to discuss your process and a demonstration; this document is not an offer to purchase.

Cost categories to agree separately

Licence and user scope; deployment, integration and data adaptation; hosting and support; usage of any selected AI or voice services. Specific terms depend on the version and scope being acquired.

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