

WorkflowCraft

A visual workflow builder that empowers non-technical users to create automated workflows through an intuitive drag-and-drop interface. Design, configure, and simulate multi-step workflows for email campaigns, WhatsApp messaging, and scheduled delays.

Built with Vue 3, Vite, and Tailwind CSS

Hosted live at: <https://workflowcraft.vercel.app>

Features

Core Functionality

- Drag-and-Drop Canvas – intuitive visual interface for workflow building
- Three Block Types: Send Email, Wait, Send WhatsApp
- Sequential Execution – steps run top to bottom
- Property Panel – edit block settings via side panel
- Workflow Simulation – preview execution in a timeline
- JSON Export – structured export for integration
- Local Persistence – auto-saves to browser localStorage

Enhanced Features

- Responsive Design – works on mobile, tablet, and desktop
- Touch Support – mobile drag-and-drop with preview
- Real-Time Updates – instant property changes
- Step Management – add, remove, reorder steps easily
- Visual Feedback – hover, active states, animations

- Clean StateManagement –Vue 3 Composition API

Getting Started

Prerequisites

- Node.js v16 or higher
- npm or yarn
- A modern web browser

Installation

```
$ git clone https://github.com/yourusername/workflowcraft.git
$ cd workflowcraft
$ npm install
$ npm run dev
$ npm run build
$ npm run preview
```

Architecture & Design Decisions

Framework Choice: Vue 3 + Composition API

- Smaller bundle size vs React
- Reactive state management with less boilerplate
- Great TypeScript support
- Cleaner component organization

State Management

Local component state with `ref` and `watch`. No Vuex/Pinia needed. Persistent storage handled via `localStorage`.

Data Structure

Each workflow step is represented as:

```
{"id": "unique_timestamp", "type": "Send Email | Wait | Send WhatsApp", "props": {...}}
```

Technical Stack

Category	Technology	Purpose
Framework	Vue 3	Reactive UI framework
Language	JavaScript	App logic
Build Tool	Vite	Fast dev + bundling
Styling	Tailwind CSS	Utility-first design system
Routing	Vue Router	SPA navigation
State	Composition API	Reactive local state management
Storage	LocalStorage	Persistence across sessions
Drag & Drop	HTML5 + Touch	Desktop + mobile interactions
Icons	Custom SVG	Lightweight scalable icons

Live Demo

Try it now: <https://workflowcraft.vercel.app>