

Design the Wireframe UI screens for the application

Of course. Based on the established system architecture, API design, and business logic, here are the wireframe designs for the primary screens of the Enterprise Agentic Workflow Engine (EAWE).

The design philosophy follows modern UI/UX best practices: clarity, simplicity, and a focus on user goals ^[1] ^[2]. The wireframes are intentionally low-fidelity, using grayscale and basic shapes to focus on structure, layout, and user flow, which is crucial in the early stages of design ^[1] ^[3].

Screen 1: Main Dashboard (Operator View)

Persona: Operator, Manager

Purpose: Provide an at-a-glance overview of the system's status and immediate access to pending tasks and the conversational AI interface. This is the primary landing page for most users.

(Full Screen Layout)

Header (Persistent across all screens)

- [Logo]
- [Navigation Links: Dashboard | Workflows | Inbox (3) | Admin]
- [Global Search Bar with text: "Ask or search..."] [Microphone Icon]
- [User Profile Icon: John Doe]

Body

1. Key Metrics Panel

- (A horizontal row of four large stat cards)
 - **Card 1:** Title: Pending Tasks, Value: 3
 - **Card 2:** Title: Workflows in Progress, Value: 14
 - **Card 3:** Title: Completed Today, Value: 128
 - **Card 4:** Title: Errors (24h), Value: 1, (Displayed in red)

2. My Pending Tasks Panel (Left 2/3 of screen)

- **Panel Title:** My Approval Inbox
- **Task List Item 1 (Card):**
 - **Title:** Approve Invoice #INV-2025-078

- **Subtitle:** From workflow: "AP Invoice Processing"
- **Timestamp:** Assigned 15 minutes ago
- [Button: View Task]
- **Task List Item 2 (Card):**
 - **Title:** Review Expense Report - Q. Abernathy
 - **Subtitle:** From workflow: "Employee Expense Management"
 - **Timestamp:** Assigned 2 hours ago
 - [Button: View Task]
- [Link: View All in Inbox]

3. Conversational AI Panel (Right 1/3 of screen)

- **Panel Title:** AI Assistant
- **Response Area:** (Scrollable text area showing conversation history)
 - [AI Response]: "Here is the latest sales performance report for the West region..."
 - [User Query]: "Show me the latest sales performance report for the West region."
- **Input Area:**
 - [Text Input Field: "Ask a question or give a command..."]
 - [Voice Input Button (Microphone)] [Send Button]

User Flow & Interaction:

- The Operator lands here and immediately sees how many tasks are waiting for them.
- They can click "View Task" to open the HITL Approval modal (Screen 2).
- They can use the AI Assistant to query company knowledge without leaving the dashboard. The voice button initiates the Riva ASR stream.

Screen 2: HITL Approval Task View (Modal)

Persona: Operator, Manager

Purpose: Provide all necessary context for a human to make an informed approval decision, and to capture their feedback for the continuous learning loop ^[4]. This screen embodies the "Approval Gateway Design" ^[4].

(Modal Overlay on top of the Dashboard)

Modal Header:

- [X Close Button]
- **Title:** Approval Required: Approve Invoice #INV-2025-078

Modal Body (Two-column layout)

Left Column: Agent Summary & Context

- **Heading:** Agent's Work Summary
- **Log Item 1:** [Icon: Checkmark] Triggered by new email with subject "Invoice from Stark Industries".
- **Log Item 2:** [Icon: Checkmark] Extracted invoice data using OCR.
- **Log Item 3:** [Icon: Checkmark] Matched Purchase Order #PO-451 in SAP.
- **Log Item 4:** [Icon: Warning] Confidence for "Line Item 3" is low (72%). Review recommended.
- **Heading:** Attachments
- [Link: Original_Invoice.pdf]

Right Column: Action & Review

- **Heading:** Invoice Details
- **Form Field:** Vendor Name: Stark Industries [Locked]
- **Form Field:** Invoice Date: 2025-06-28 [Locked]
- **Form Field:** PO Number: PO-451 [Locked]
- **Editable Table: Line Items**

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Description	Quantity	Unit Price	Total	
Item A	2	\$500.00	\$1000	
Item B	1	\$350.00	\$350	
[Editable Textbox: Itom C]	[^4]	\$150.00	\$150	[Warning Icon]

- **Form Field:** Total Amount: \$1500.00
- **Form Field (Text Area):** Comments (Optional)

Modal Footer:

- [Button (Primary): Approve]
- [Button (Secondary): Edit & Approve]
- [Button (Danger): Reject]

User Flow & Interaction:

- The user reviews the agent's summary on the left.
- They spot the warning and correct the typo in the editable table on the right ("Itom C" → "Item C").
- Because they made a change, they click "Edit & Approve". The backend logs the correction to fine-tune the OCR agent.
- If they click "Reject," a new text field appears asking for the mandatory rejection reason.

Screen 3: Workflow Studio (Designer View)

Persona: Designer

Purpose: A visual, no-code/low-code canvas for designing and configuring automation workflows, reflecting the modular design principles [\[4\]](#).

(Full Screen Layout)

Header (As above)

Body (Three-column layout)

Left Panel: Toolbox

- **Heading:** Agents
 - [Draggable Item: Data Processing Agent]
 - [Draggable Item: Communications Agent]
 - [Draggable Item: Reporting Agent]
- **Heading:** Logic
 - [Draggable Item: Condition (If/Then)]
 - [Draggable Item: Human Approval]
- **Heading:** Triggers
 - [Draggable Item: On New Email]
 - [Draggable Item: On Schedule]

Center Panel: Canvas

- **Workflow Title:** Editable Text: AP Invoice Processing
- **Canvas Grid:** (Shows a visual representation of the workflow, a wireflow [\[5\]](#))
 - **Node 1 (Trigger):** [On New Email] → (arrow)
 - **Node 2 (Agent):** [Data Processing Agent] → (arrow)
 - **Node 3 (Logic):** [Condition: Amount > \$10k]
 - (Arrow with label "Yes") → **Node 4a (Approval):** [Approval: Director]
 - (Arrow with label "No") → **Node 4b (Approval):** [Approval: Manager]

Right Panel: Configuration (Context-aware)

- (If "Data Processing Agent" node is selected on canvas)
- **Panel Title:** Configure: Data Processing Agent
- **Text Area:** Agent Goal: "Using the attached email and its PDF, extract the vendor name, invoice number, date, and all line items. Then, look up the corresponding PO in SAP..."
- **Multi-select:** Authorized Tools: [Read Email], [Read PDF (OCR)], [SAP Lookup]

Top Bar (Above Canvas):

- [Button: Save Draft] [Button: Test] [Button (Primary): Activate]

User Flow & Interaction:

- The Designer drags agents and logic blocks from the left panel onto the canvas.
- They connect the nodes with arrows to define the flow.
- They click on a node to configure its specific properties in the right-hand panel.

Screen 4: Workflow Monitoring & Run Details

Persona: Designer, Operator

Purpose: To view the status of all workflow instances and drill down into the audit trail for debugging and compliance.

(Full Screen Layout)

Header (As above)

Body

View Title: Workflow Runs

- **Filter Controls:** [Date Range Picker] [Dropdown: Filter by Status] [Dropdown: Filter by Workflow] [Search Bar]

Main Content: Runs Table

•	Status	Workflow Name	Run ID	Started At
	[Badge: Success] Completed	AP Invoice Processing	run_123...	2025-06-28 10:05
	[Badge: Danger] Failed	Sales Report Generation	run_124...	2025-06-28 09:30
	[Badge: Warning] Approval	AP Invoice Processing	run_125...	2025-06-28 09:15
	[Badge: Info] Running	HR Onboarding - J. Smith	run_126...	2025-06-28 08:00

(When a user clicks on a row, they are taken to a detail view)

Detail View: Run run_124...

- **Header:** Sales Report Generation - FAILED
- **Two-Column Layout**
 - **Left Column (Visual Flow):**
 - A read-only view of the workflow canvas, with the path taken highlighted in green, and the point of failure marked with a red 'X'.
 - **Right Column (Audit Trail):**

- **Heading:** Execution Log
- **Log Item:** 10:05:01 | SYSTEM | Workflow run_123 started.
- **Log Item:** 10:05:02 | AGENT | Extracted data from Salesforce successfully.
- **Log Item:** 10:05:05 | AGENT | Error: Failed to connect to SAP BI. Connection timed out.
- **Log Item:** 10:05:05 | SYSTEM | Workflow status changed to FAILED.

User Flow & Interaction:

- Users can quickly filter to find failed or pending runs.
- Clicking a run provides immediate visual and textual context for why a workflow failed, which is essential for troubleshooting.

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1. <https://www.figma.com/resource-library/what-is-wireframing/>
2. <https://designlab.com/blog/wireframe-tips-for-better-website-design>
3. <https://www.future-processing.com/blog/wireframing-in-ui-ux-design-types-process-and-tools/>
4. Organizational-Workflow-Automation-Analysis_Ident.pdf
5. <https://www.nngroup.com/articles/wireflows/>