

Modified Task: Affine & Chatwoot Integration with White Labelling

1. Assignment Overview

Build a web-based solution that:

- Integrates Chatwoot for customer support chat.
- Embeds or connects it within an instance of Affine (open-source workspace tool).
- Supports white labelling and URL-based tenant validation for multi-tenant branding logic.
- Can be run locally using Docker Compose.

2. Requirements

A. Docker Compose Setup

- Create a single docker-compose.yml file that runs the following:
 - Change look and feel of affine by modifying source code (Theme, logos of affine & text branding)
 - Affine (custom-built from source with white-label support)
 - Chatwoot
 - Optional: A lightweight backend service to manage tenant info or configuration (JSON file, API, etc.)
- Ensure all services are connected and exposed on appropriate ports.

B. URL Validation + White Labelling (Frontend)

- Fork or clone the Affine source code (<https://github.com/toeverything/AFFiNE>) and modify it directly to support tenant-specific UI changes.
- Build a Docker image from the modified Affine source and use that image in the Compose file.
- Implement logic in the frontend (or backend if needed) that:
 - Extracts a ?tenant=acme or subdomain like acme.localhost
 - Validates the tenant against a list (JSON or backend)
 - Applies the tenant-specific white label:
 - Custom logo
 - Primary theme color
 - Chatwoot config (Widget ID or URL)

C. Chatwoot Integration

- Embed the Chatwoot widget into the Affine UI.
- Support tenant-based widget customization:
 - Brand color
 - Support email or team
 - Optionally pre-fill user info via JavaScript SDK

3. Deliverables

- GitHub repo with:
 - docker-compose.yml
 - Modified Affine source code (with Dockerfile)
 - Chatwoot configs
 - White-labelling logic (frontend/backend)
- README.md that includes:
 - How to run everything locally
 - How to add a new tenant
 - How branding works and how Affine is built from source
- (Optional) A short video demo or screencast link

4. Complexity Level: 6 / 10

This task tests:

- Docker Compose orchestration
- Source code modification and Docker image build
- Multi-tenant white labelling logic
- Third-party integrations with Affine and Chatwoot