

Repository Structure Documentation

Finanzas SD – Architecture, Flows & SOPs

Arquitectura, Flujos y Procedimientos

November 11, 2025

1 Repository Structure Documentation

Last Updated: November 9, 2025

Module: Finanzas (R1) - Financial Planning & Service Delivery

Status: Pre-production, AWS SDK integration active

1.1 Overview

This repository contains a multi-module enterprise financial planning application with:

- **SDMT Module:** Service delivery cost tracking and forecasting
- **Finanzas Module (R1):** Budget management (Rubros catalog, allocation rules)

The application is built with React 19, Vite 6, TypeScript, and Tailwind CSS v4, deployed behind CloudFront at /finanzas/.

1.2 Directory Structure

```

/
├── src/                                # Application source code
│   ├── api/                            # Real AWS API clients
│   │   └── finanzasClient.ts          # Finanzas module AWS SDK client
│   ├── components/                     # Shared UI components
│   │   ├── ui/                         # Shadcn/Radix UI primitives
│   │   ├── AuthProvider.tsx           # Authentication context
│   │   ├── Navigation.tsx             # Main navigation bar
│   │   ├── Protected.tsx              # Route protection HOC
│   │   └── ...                         # Other shared components
│   ├── config/                         # Configuration files
│   │   └── aws.ts                     # AWS Cognito/API configuration
│   ├── contexts/                       # React contexts
│   │   └── ProjectContext.tsx         # Project selection state
│   ├── features/                       # Feature modules (domain-driven)
│   │   ├── HomePage.tsx               # Landing page
│   │   ├── pmo/                       # PMO features
│   │   └── sdmt/                      # SDMT features
│   │       ├── cost/                  # Cost management
│   │       │   ├── Catalog/           # Line items catalog
│   │       │   ├── Forecast/          # Budget forecasting
│   │       └── Reconciliation/        # Invoice reconciliation

```

			Cashflow/	# Cash flow analysis
			Scenarios/	# What-if scenarios
			Changes/	# Change requests
			hooks/	# Custom React hooks
			lib/	# Utilities and services
			api.ts	# Mock API service (PM0/SDMT)
			auth.ts	# Auth utilities
			utils.ts	# General utilities
			mocks/	# Mock data for development
			baseline*.json	# Project baselines (3 projects)
			billing-plan*.json	# Billing schedules
			forecast*.json	# Forecast data
			invoices*.json	# Invoice samples
			ikusi-service-catalog.json	# Service catalog
			modules/	# Independent feature modules
			finanzas/	# Finanzas R1 module
			FinanzasHome.tsx	# Finanzas landing
			RubrosCatalog.tsx	# Budget items catalog
			AllocationRulesPreview.tsx	# Allocation rules
			data/	# Static Finanzas data
			types/	# TypeScript type definitions
			domain.d.ts	# Domain models
			App.tsx	# Root application component
			main.tsx	# Application entry point
			docs/	# Documentation
			archive/	# Historical implementation docs
			adr/	# Architecture decision records
			architecture/	# System architecture docs
			ops/	# Operations guides
			runbooks/	# Operational runbooks
			tree.structure.md	# This file
			*.md	# Current documentation
			infra/	# Infrastructure as code
			terraform/	# Terraform configurations
			scripts/	# Build and deployment scripts
			create-s3-bucket.sh	# S3 bucket creation

└─ generate-docs-pdf.cjs	# PDF documentation generator
└─ services/	# Backend services
└─ finanzas-api/	# Finanzas API (AWS SAM)
└─ openapi/	# API specifications
└─ finanzas.yaml	# Finanzas API contract
└─ public/	# Static assets
└─ .github/	# GitHub workflows and configs
└─ package.json	# Dependencies and scripts
└─ vite.config.ts	# Vite build configuration
└─ tsconfig.json	# TypeScript configuration
└─ tailwind.config.js	# Tailwind CSS configuration

1.3 Key Architecture Decisions

1.3.1 Data Layer Strategy

The application uses **dual data access patterns** based on module:

PMO/SDMT Modules (Mock-based)

- **File:** src/lib/api.ts
- **Purpose:** Mock API service for PMO and SDMT features
- **Data Source:** JSON files in src/mocks/
- **Usage:** Development and testing of PMO/SDMT workflows
- **Toggle:** VITE_USE MOCK_API=true/false (default: true in dev)
- **Rationale:** PMO/SDMT backend is not yet implemented; mocks enable UI development

Finanzas Module (AWS SDK-based)

- **File:** src/api/finanzasClient.ts
- **Purpose:** Real AWS API client for Finanzas module
- **Data Source:** AWS API Gateway → Lambda → DynamoDB
- **Endpoint:** <https://m3g6am67aj.execute-api.us-east-2.amazonaws.com/dev>
- **Auth:** JWT token in localStorage (finz_jwt)
- **Rationale:** Finanzas R1 has live backend infrastructure

1.3.2 Module Separation

No centralization needed - The current structure already provides clean separation:

- PMO/SDMT features use mock data layer (`lib/api.ts`) - Finanzas module uses real AWS SDK client (`api/finanzasClient.ts`) - Each module imports from its appropriate data source

1.3.3 Feature Organization

Features are organized by **business domain** under `src/features/`: - `pmo/` - Project Management Office features - `sdmt/` - Service Delivery Management Team features - Finanzas is a standalone module under `src/modules/finanzas/`

This structure supports: - Clear ownership boundaries - Independent deployment (via `BUILD_TARGET` env var) - Gradual backend integration

1.4 Mock Data Strategy

1.4.1 Purpose

Mock data enables frontend development while backend services are under construction.

1.4.2 Active Mocks (Retained)

All mock files in `src/mocks/` are **actively used** by PMO/SDMT features: - `baseline*.json` (3 variants: healthcare, fintech, retail) - `billing-plan*.json` (3 variants) - `forecast*.json` (3 variants) - `invoices*.json` (3 variants) - `ikusi-service-catalog.json` (service tier definitions)

1.4.3 Usage Pattern

```
[ ] // src/lib/api.ts imports mocks import baselineData from '@mocks/baseline.json';
import serviceCatalog from '@mocks/ikusi-service-catalog.json';
// Components use ApiService import ApiService from '@lib/api'; const projects =
await ApiService.getProjects();
```

1.4.4 Future Migration

When PMO/SDMT backend is ready: 1. Set `VITE_USE_MOCK_API=false` in production 2. Update `src/lib/api.ts` to call real endpoints 3. Keep mocks for local development and testing

1.5 Removed Components (Cleanup)

1.5.1 Development-Only Components (Removed)

- `src/pages/_diag/FinanzasDiag.tsx` - Diagnostics dashboard
- `src/components/RoleDebugPanel.tsx` - Role switching panel
- Route `/_diag` - Diagnostic route

Rationale: These were dev-time debugging tools not needed in production deployment.

1.5.2 Documentation Cleanup

- Moved 55+ historical implementation docs to `docs/archive/`
- Retained essential docs in root: README, PRD, SECURITY, LICENSE
- Kept `docs/` structure for architectural and operational documentation

1.6 Build Configuration

1.6.1 Build Targets

The application supports multiple build targets via `BUILD_TARGET` environment variable:

```
[ ] # Finanzas-only build (default) BUILD_TARGET=finanzas npm run build
# PMO-only build (future) BUILD_TARGET=pmo npm run build
```

1.6.2 Base Path Configuration

- **Vite base:** `/finanzas/` (configured in `vite.config.ts`)
- **Router basename:** `/finanzas` (configured in `App.tsx`)
- **CloudFront path:** `/finanzas/*` (behavior pattern)
- **S3 prefix:** Objects stored under `finanzas/` key prefix

This ensures: - Deep links work correctly (e.g., `/finanzas/catalog/rubros`) - Assets load properly behind CloudFront - SPA routing functions as expected

1.7 Environment Variables

1.7.1 Core Settings

```
[ ] # API Configuration VITE_API_BASE_URL=https://m3g6am67aj.execute-api.us-east-2.amazonaws.com/dev VITE_USE MOCK_API=false # Use real API (true for local dev with mocks) VITE_FINZ_ENABLED=true # Enable Finanzas module
# Authentication VITE_SKIP_AUTH=true # Skip auth for development VITE_COGNITO_POOL_ID=u
east-2_FyHLtOhY VITE_COGNITO_CLIENT_ID=dshos5iou44tuach7ta3ici5m
# Deployment VITE_APP_BASENAME=/finanzas
```

See `.env.production` for full production configuration.

1.8 Testing Strategy

1.8.1 Current State

- No unit test framework installed (Vitest planned but not configured)
- Manual verification via:
 - Build success (`npm run build`)
 - Lint pass (`npm run lint`)
 - Local preview (`npm run preview`)
 - Manual UI testing

1.8.2 Test Infrastructure (Future)

- `src/__tests__/basePath.test.ts` - Contains commented-out tests for Vitest
- When Vitest is added, uncomment tests and add to CI/CD

1.9 Deployment Pipeline

1.9.1 CI/CD

- **Workflow:** `.github/workflows/deploy-ui.yml`
- **Trigger:** Push to main branch
- **Steps:**
 1. Build with `BUILD_TARGET=finanzas`
 2. Sync to S3 bucket `ukusi-ui-finanzas-prod`
 3. Invalidate CloudFront distribution `EPQU7PVDLQXUA`

1.9.2 Manual Deployment

```
[ ] npm run build:finanzas aws s3 sync dist/ s3://ukusi-ui-finanzas-prod/finanzas/ --  
delete aws cloudfront create-invalidation --distribution-id EPQU7PVDLQXUA --paths '/fi-  
nanzas/*'
```

1.10 Routing Structure

1.10.1 Public Routes

- / - Home page (FinanzasHome if VITE_FINZ_ENABLED=true, else HomePage)
- /profile - User profile

1.10.2 PMO Routes

1.10.3 SDMT Routes

- /sdmt/cost/catalog - Line items catalog
- /sdmt/cost/forecast - Budget forecasting
- /sdmt/cost/reconciliation - Invoice reconciliation
- /sdmt/cost/cashflow - Cash flow analysis
- /sdmt/cost/scenarios - What-if scenarios
- /sdmt/cost/changes - Change requests

1.10.4 Finanzas Routes

- /catalog/rubros - Rubros (budget items) catalog
- /rules - Allocation rules preview

1.11 Security Considerations

1.11.1 Authentication

- Cognito User Pool: us-east-2_FyHLt0hiY
- JWT tokens stored in localStorage (finz_jwt)
- Auth can be skipped in dev via VITE_SKIP_AUTH=true

1.11.2 Authorization

- Role-based access control (RBAC) implemented at UI level
- Roles: PMO, SDMT, VENDOR, EXEC_RO
- Backend authorization handled by Lambda authorizers (not in UI scope)

1.11.3 Data Protection

- S3 bucket is private (no public access)
 - CloudFront + OAC (Origin Access Control)
 - HTTPS enforced
 - No secrets in source code (environment variables only)
-

1.12 Next Steps for Finanzas R2

1. Backend Integration

- Complete PMO/SDMT API implementation
- Replace mock data layer with real API calls
- Add retry logic and error handling

2. Testing

- Install and configure Vitest
- Add unit tests for components and utilities
- Add integration tests for critical workflows

3. Performance

- Implement code splitting (dynamic imports)
- Optimize bundle size (currently 2.1MB)
- Add lazy loading for routes

4. Monitoring

- Add CloudWatch RUM for frontend monitoring
 - Implement error tracking (Sentry or similar)
 - Add performance metrics
-

1.13 Questions & Support

- **Repository:** valencia94/financial-planning-u
- **Branch:** copilot/cleanup-finanzas-module
- **Documentation:** See docs/ directory for detailed guides
- **Issues:** GitHub Issues for bug reports and feature requests