

# Project Overview: Multi-Currency Financial Platform

## 1. Project Overview

Our company operates with two main legal entities -- one based in Italy and the other in Brazil. The financial operations frequently require handling multiple currencies such as Euros (EUR), US Dollars (USD), and Brazilian Reais (BRL) within a single sales case. The platform to be developed will centralize and simplify tracking of all these transactions in real time.

## 2. Objectives

- Enable management of sales cases that may involve multiple suppliers in different currencies.
- Allow customers to pay into either the Brazilian or Italian account.
- Maintain real-time visibility of account balances in all currencies.
- Track which entity received or made a payment, regardless of the currency.
- Simplify reporting and auditing across currencies and accounts.

## 3. Key Features

### A. Dashboard

- Real-time display of balances per currency and entity (EUR, USD, BRL).
- Summary cards for Italy and Brazil.
- Monthly inflow/outflow charts.
- Recent transactions table.

### B. Sales Case Management

- Create sales cases involving multiple suppliers.
- Support for supplier payments in various currencies.
- Assign customer and related entity (Italy/Brazil).
- Track status and total value per currency.

### C. Transactions Module

- Log incoming and outgoing payments.
- Specify payer and payee entity.
- Record payment currency, amount, and optional exchange rate.
- Link transactions to specific sales cases.

### D. Customer and Supplier Management

- Manage contact and banking details.
- Assign default currencies.
- View transaction histories.

### E. Currency & Settings

- Add/edit exchange rates manually or via API.
- Define default behavior per entity.

## 4. System Architecture Overview

Frontend: React.js with Tailwind CSS for responsive and clean UI.

Backend: Node.js + Express for RESTful APIs.

Database: MongoDB for storing structured transaction and user data.

Authentication: JWT or OAuth for role-based access control.

Charts: Recharts or Chart.js for analytics.

## 5. Benefits

- Centralized visibility of finances across countries and currencies.
- Reduces errors in cross-currency transactions.
- Simplifies compliance and financial audits.
- Enhances operational efficiency for finance teams.

## 6. Future Enhancements

- Integration with real-time currency exchange APIs.
- Automated reconciliation with bank statements.
- Role-based dashboards for managers, accountants, and auditors.
- Export reports to PDF, Excel.

## **7. Risk Assessment**

- Currency Conversion Errors: Mitigate with reliable exchange rate management.
- Data Integrity: Use transaction linking and logs.
- Security Risks: Employ strong encryption and user access control.
- Scalability: Design modular backend and database.

## **8. Conclusion**

This platform will offer a robust and transparent solution for handling complex, multi-currency transactions

between Italy and Brazil. With centralized tracking and real-time balance insights, it will significantly enhance

financial management efficiency and accuracy.