

CODECEUL-CMENTURESTE SIGNATURA SECURITARIA SECURITARI

Category Code: C6

Problem Statement Title: Cross-Border Trade & International

Finance

Team Name: CodeMongers

Institute Name: Vivekanand Education Society's Institute of Technology























Idea / Approach details (& implemented features)

Problem:

Global trade is slow, costly, and risky due to:

- 1. Manual invoice processing delays shipments.
- 2. Unclear tariffs & duties lead to unexpected costs.
- 3. No structured supplier risk assessment.
- 4. FX volatility causes financial instability.
- 5. Compliance verification is complex and time-consuming.

Our Approach: An Al-powered Trade Risk & Financing Profiler Automates document analysis, risk assessment, and supplier selection to streamline global trade.

Data Extraction – AI reads invoices, extracts product details & pricing.

Supplier Matching – Identifies suppliers based on cost, risk & compliance.

Tariff & Duty Analysis – Calculates total landed costs for each supplier's country.

Risk Assessment – Al evaluates supplier risks (FX volatility, trade barriers).

Automated Compliance Checks – Screens suppliers against global sanction lists.

Smart Procurement Decisioning – Recommends the best supplier & trade route.

Key Features:

- 1. Al Invoice Extraction
- 2. Supplier Risk Analysis
- 3. Tariff & Duty Analysis
- 4. Procurement Optimization
- 5. Compliance Screening
- 6. FX Risk Forecasting

Innovation (Showstopper)

What Makes This a Game-Changer?

Instant AI-Powered Trade Analysis

Before: 61+ hours per shipment wasted on manual compliance.

Now: Al automation reduces this to just minutes.

Cost-Effective Decision-Making

Before: Trade costs reached 4% of transaction value

in developing countries.

Now: Al-driven supplier and route optimization cuts costs

Risk-Free International Trade

Before: Businesses suffered 10% annual profit losses due to FX

volatility.

Now: Al forecasts trends and suggests hedging strategies,

eliminating unnecessary losses.

Automated Global Supplier Matching

Before: 50% of businesses lacked data-driven trade insights.

Now: Al matches suppliers instantly and provides real-time

procurement plans



Tech Stack





Frontend:





APIs:





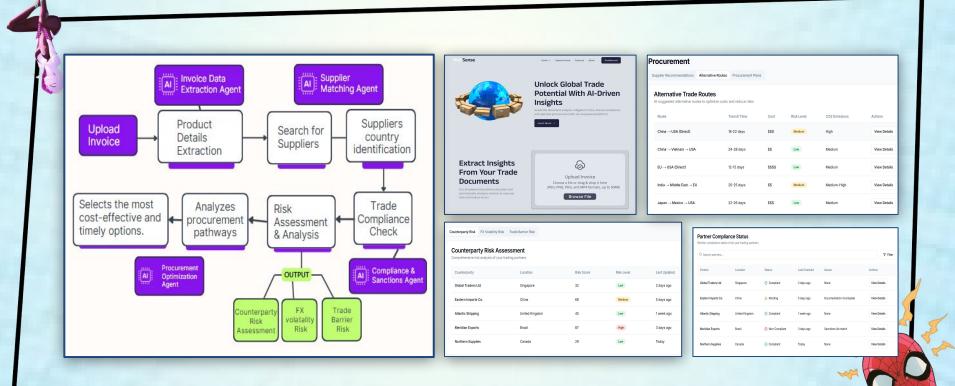
Moov.io watchman / open sanctions (Facilitates sanctions screening and compliance checks against restricted lists, reducing financial and legal risks.)

AI integration:



UPTIQ AI console

Implementation/Prototype/Use Case Diagram (screenshots)



In case of Uptiq category - Your Uptiq Agent (explain in detail)



Future Objectives









Implement blockchain-based smart contracts to ensure transparency and security in supplier agreements and trade transactions.

Use Natural Language Processing
(NLP) & Legal AI to detect risks in
contracts before execution

Use machine learning for Predictive
Supply Chain Optimization & Risk
Forecasting