



CODECELL-CMPN, VESIT

SYRUS HACKATHON 2025

Category Code: C6

Problem Statement Title: Cross-Border Trade & International Finance

Team Name: Hashcode

Institute Name: Vivekanand Education Society's Institute of Technology



Idea / Approach Details



Problem: Small and Medium Enterprises (SMEs) struggle with trade finance due to manual document processing, cash flow gaps, and unpredictable risks. Lenders face difficulties in assessing dynamic risks..

Solution: *Kubera* automates trade finance using AI for:

- Document Verification** : AI-driven processing to eliminate manual errors.
- Real-time Financing Adjustments** : Dynamic risk assessment for lenders.
- Risk Mitigation** : AI-powered geopolitical risk monitoring and smart route optimization.

Target Audience:

- SMEs** : Faster, hassle-free trade finance with reduced cash flow gaps.
- Lenders & Financial Institutions** : Improved risk assessment and decision-making.
- Global Trade Facilitators** : Streamlined, language-agnostic trade document processing.



Implemented features

We propose our solution, “*Kubera*” automates trade finance using AI for document verification, real-time financing adjustments, and risk mitigation. It reduces cash flow gaps for SMEs and enhances lender risk assessment dynamically.

Implemented Features:

- Automated Document Processing
- Geopolitical Risk Sentinel
- Language-Agnostic Trade Hub
- Smart Route Optimization
- Finance Negotiator
- Risk Assessment



Innovation & Technologies used

Innovation:

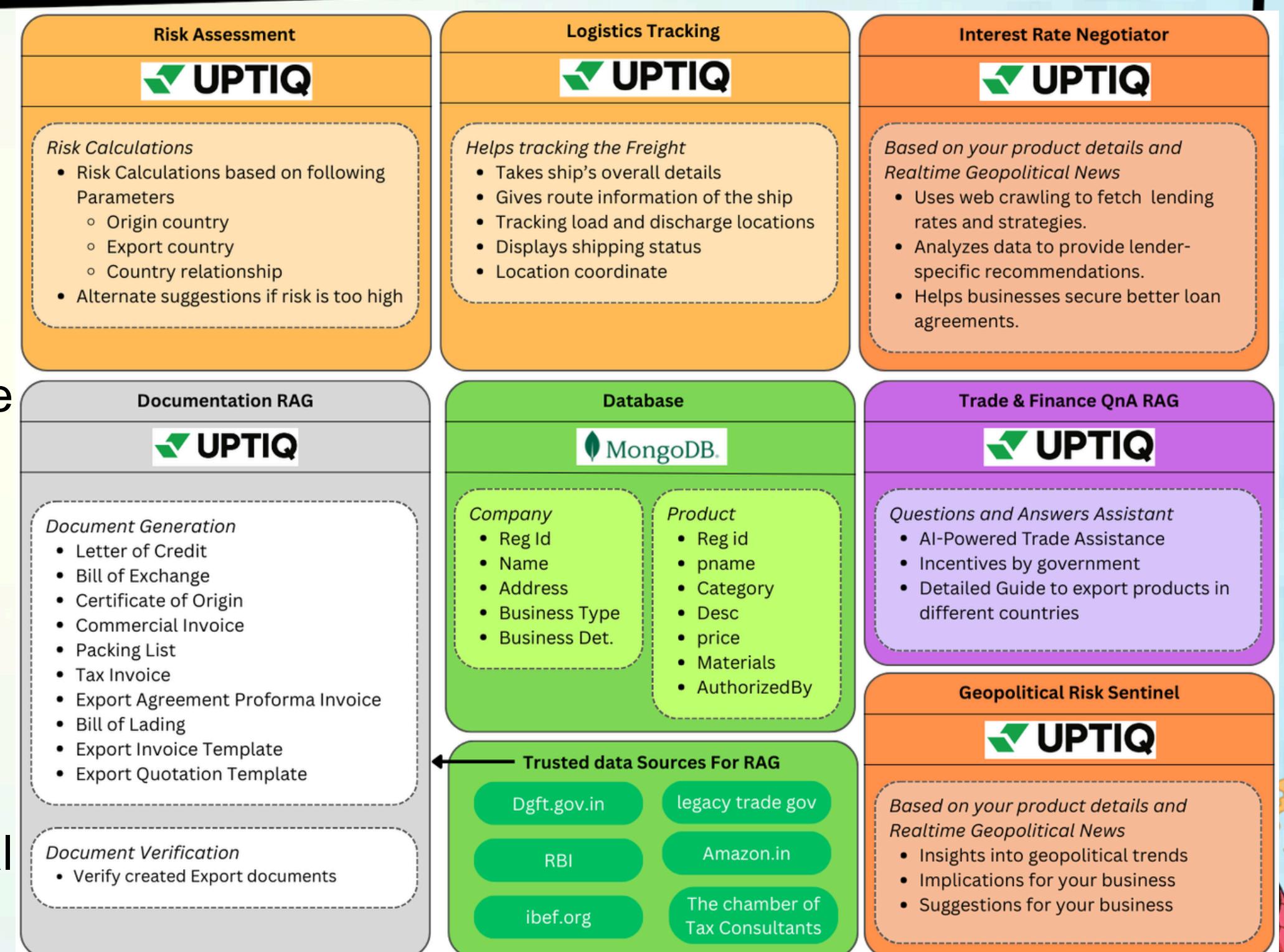
- AI-driven document verification to minimize manual errors.
- Geopolitical risk monitoring for smarter trade route optimization.
- Language-agnostic trade finance automation.
- Seamless finance negotiation powered by AI.

Technology	Purpose
Uptiq.ai	AI-driven financial insights & optimization
MongoDB	NoSQL database for storing trade data
APIs	<ul style="list-style-type: none">• News API : Fetches real-time global trade news for risk assessment• SafeCube.ai API Real-time supply chain monitoring & risk mitigation



Flow Diagram

- **Risk Assessment:** Uptiq.ai-driven geopolitical risk evaluation with alternate trade suggestions.
- **Logistics Tracking:** Real-time freight monitoring with ship route and cargo status updates.
- **Interest Rate Negotiator:** Fetches real-time lending rates based on product details and global news.
- **Documentation RAG:** Automates trade document generation and verification.
- **Trade & Finance QnA RAG:** AI-powered assistance for trade compliance, incentives, and export guides.
- **Geopolitical Risk Sentinel:** Monitors global news for trade insights and risk mitigation.



References & Demo video link

Youtube Video Link:

Detailed Implementation Documentation Link :

https://docs.google.com/document/d/1FZ90SyxTMGsVLiVWltbq9KAj_1_ZmnpgHi0lbHDvE6o/edit?usp=sharing

GitHub Repository Link : https://github.com/CMPN-CODECELL/Syrus2025_Cross-BorderTrade-InternationalFinance_Hashcode

References :

- Uptiq.ai documentation | <https://docs.uptiq.ai/>
- MongoDB documentation | <https://www.mongodb.com/docs/>
- SafeCube.ai documentation | <https://documentation.safecube.ai/docs/getting-started>



Future Scope

- **AI-Powered Trade Finance Assistant:** An intelligent AI assistant designed to help users with trade finance queries, document processing, compliance checks, and financing recommendations.
- **AI-Powered Intelligent Agent for Broker Finance Management:** An AI-driven financial assistant designed to help brokers manage portfolios, optimize investments, track market trends, and automate risk management.
- **AI-Powered Inventory Management for Sellers :** An AI-driven inventory management system designed to help sellers optimize stock levels, forecast demand, reduce wastage, and automate order fulfillment.