

IST 659 Group 17 Project Proposal

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Project Title – Supply Chain Management System of freight commodity

Goal – To build an application for maintaining logistics and supply chain for business-to-business operations for suppliers and vendors. The vendor will have access to search for warehouses, commodities that are made available by suppliers.

Deliverables -

- Creating Vendor Workflow for operations like inserting, editing, viewing and deleting vendor requests for warehouse, commodities
- Creating Supplier Workflow for operation like inserting, editing, viewing, deleting commodities and warehouses.
- Detailed analysis of entities, attributes, relations in the data model.
- Data model diagrams (ER-Diagrams, Relational diagrams) along with basic layout of all application screens.
- SQL Up/Down scripts implementing internal, external model on Azure Data Studio with the application built on Azure PowerApps.

Resources -

- MS SQL Server using Azure Data Studio database initially on docker but will be shifted to Azure Cloud.
- Application using Azure PowerApps.
- Diagrams using draw.io

Outcome –

- To have at least 9 tables with all the relevant attributes in each
- To have all CRUD operations on database along with Joins, window functions
- Draw conceptual, logical and workflow diagrams
- Implement MS SQL Up/ Down script
- Make applications screens and deploy the whole database along with PowerApps screen on Azure cloud.

Tables –

The tables conceptualized till now are – Airports, Vendors, Suppliers, Commodities, Warehouse, Bookings, transport, Costing, Login