# Prototype Proposal:

# Warehouse Inventory System

## Project Name:

Warehouse Inventory System

## Project Description:

The intention of the prototype is to show all key technologies function together. The prototype will demonstrate functional front to back capabilities. The key links in this project are frontend to API, and API to database connections. In detail, the links between: Angular forms and services with TypeScript objects, TypeScript HttpClient and a RESTful ASP.NET Core backend, and the backend to the SQL Server which hosts the database.

To demonstrate this, the prototype will implement systems capable of handling a new load being added to a new lot on a new weight sheet. The prototype will create a new instance of a Load, InboundWeightSheet, and Lot class object. The InboundWeightSheet object will be added to the Lot object. The Load object will be added to the InboundWeightSheet object. The prototype will create new a new instance of the LoadService, InboundWeightSheetService, and LotService object. The service objects will save their respective objects to the database (LoadService saves the new Load). The overview page will reflect the changes to the database.

## Associated Use Cases:

- UC 10
- UC 10b
- UC 10c
- UC 40
- UC 50

## Associated Functional Requirements:

- 1.1, 1.1.2, 1.2
- 2.1, 2.2,
- 3.1, 3.3, 3.4
- 4.1.1
- 4.2.1
- 4.3.1