**System design – C4 Modeling**

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IFT 593: Applied Project

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**Context Diagram-**

A diagram of software components

Description automatically generated

In the Above context Diagram There are 2 persons. One is User who will create the list add tasks to it and mark it completed and the other one is supervisor who will supervise the List. Supervisor can be one for one list. Supervisor can also manage the list.

**Container Diagram-**

A diagram of a customer diagram

Description automatically generated

As displayed in the Container Diagram the web application will be provided to interact with the TODO list application. The web application interacts with the API application in Code. Web Application will be created in ReactJS or NextJS. Where as API application will handle all the logic and will be developed in NodeJS. API application will interact with the Database to store and retrieve Data. Database will be used to Store Registration details such as Name, Email ID. Database will also store the password in Hashed form. Todo List and supervisor Lists will be stored in database in a systematic way.

A diagram of a computer program

Description automatically generated**Component Diagram-**

As displayed in the diagram the Component Diagram Web application will have multiple pages which are Sign in, Registration, Manage List, Add Supervisor. The User will first Register using the registration page after which the next time if user wants to use the application then will need to sign in using the sign in page. Both the Registration and Sign in page use the Database which is SQL Database to store and retrieve data. Manage List page is used to create and manage TODO lists by the user and the Supervisor. The Add Supervisor page is to Add a supervisor to the list.