

# Team Project Prototype

# Overview

Using Node.js and MongoDB, we build

In this project, we build a ToDo App step by step.

1. It uses a 3-Tier Architecture.
2. It uses JavaScript frontend, Node.js Backend, and MongoDB/SQLite database.
3. This project prototype has five steps.

This app is a prototype of a team project.

# **Five Steps**

1. REST API
2. Mongoose ODM (Object Data Modeling)
3. API
4. API with SQLite
5. API with ORDB (Object Relational Database)

## Assumption

1. Students already know the following:

- Front-end programming: JavaScript from ASE 220
- Server-side programming & REST API from ASE 230
- Database programming: MongoDB from ASE 220

## 2. Students know SQL

- MySQL from ASE 220
- SQLite is nothing more than a file-based SQL

## 3. Students know Deployment

- Deployment using Docker from ASE 230

## Ready For Project

We will discuss project-related topics in the 'Ready for project':

1. Node.js
2. MongoDB & Mongoose
3. Express
4. SQLite
5. Deployment (Optional)