

DBMS Project - 2020/21

Rushil Rai (RA1811028010022)

Himanshu Beriwal (RA1811028010007)

— — —



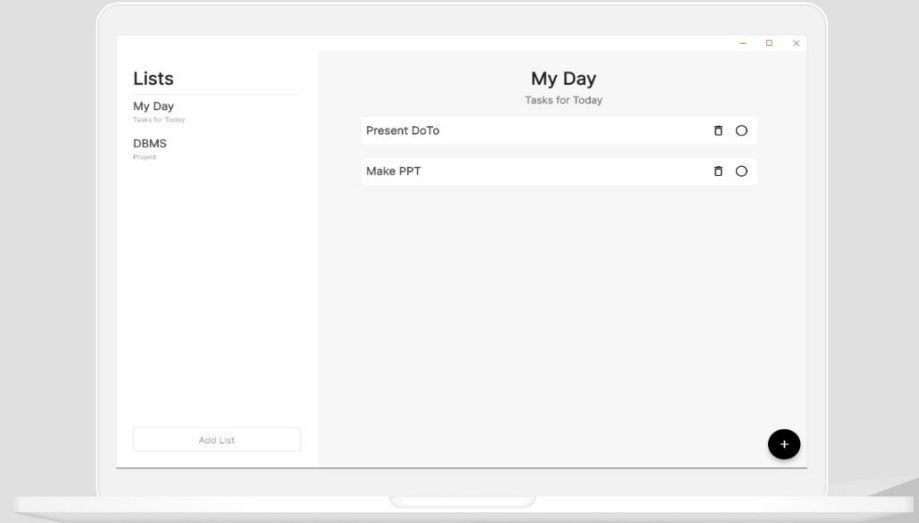
An Exploratory Project with SQL

DoTo

— — —

Contents:

- Abstract
- Softwares/Technologies
Used
- ER Diagram
- Procedure
- Conclusion & Links



Abstract

— — —

Task & Project Management Application.

Allows Users to Easily Manage Tasks by following the concept of Separation of Concerns.

Users can have separate Lists and Each List will have its own List of Tasks. Allows faster and more efficient workflow while still having the satisfaction of marking off tasks from a ToDo list.

Provides an Online Database to allow sync across platforms, which ensures the user needs not worry about losing info or worrying about the device they use.

Tech Stack

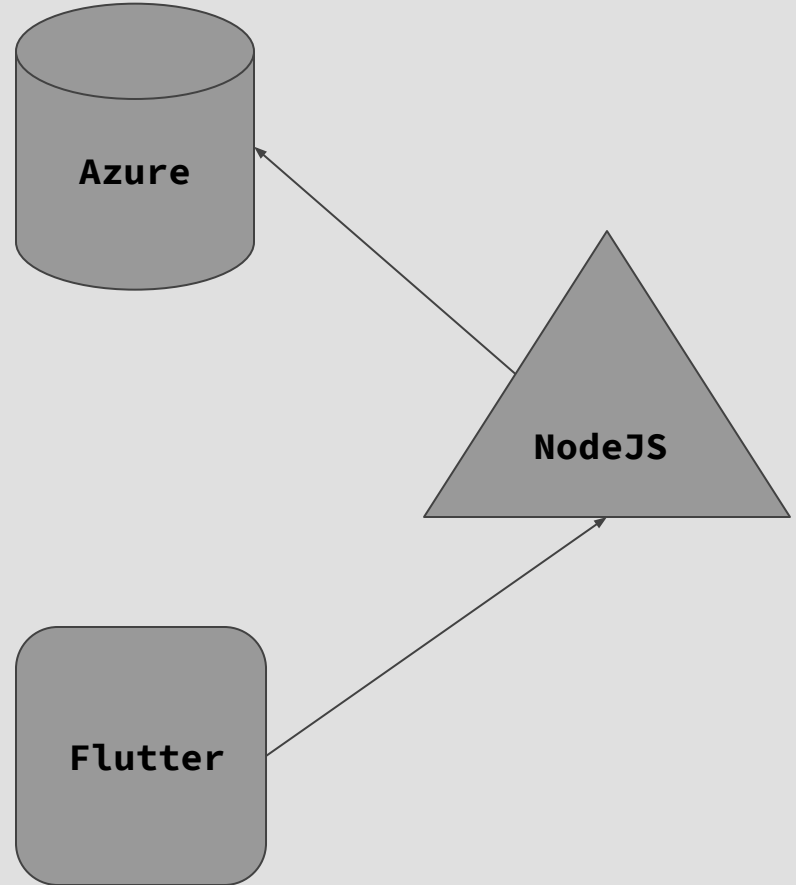
— — —

Database - **SQL**

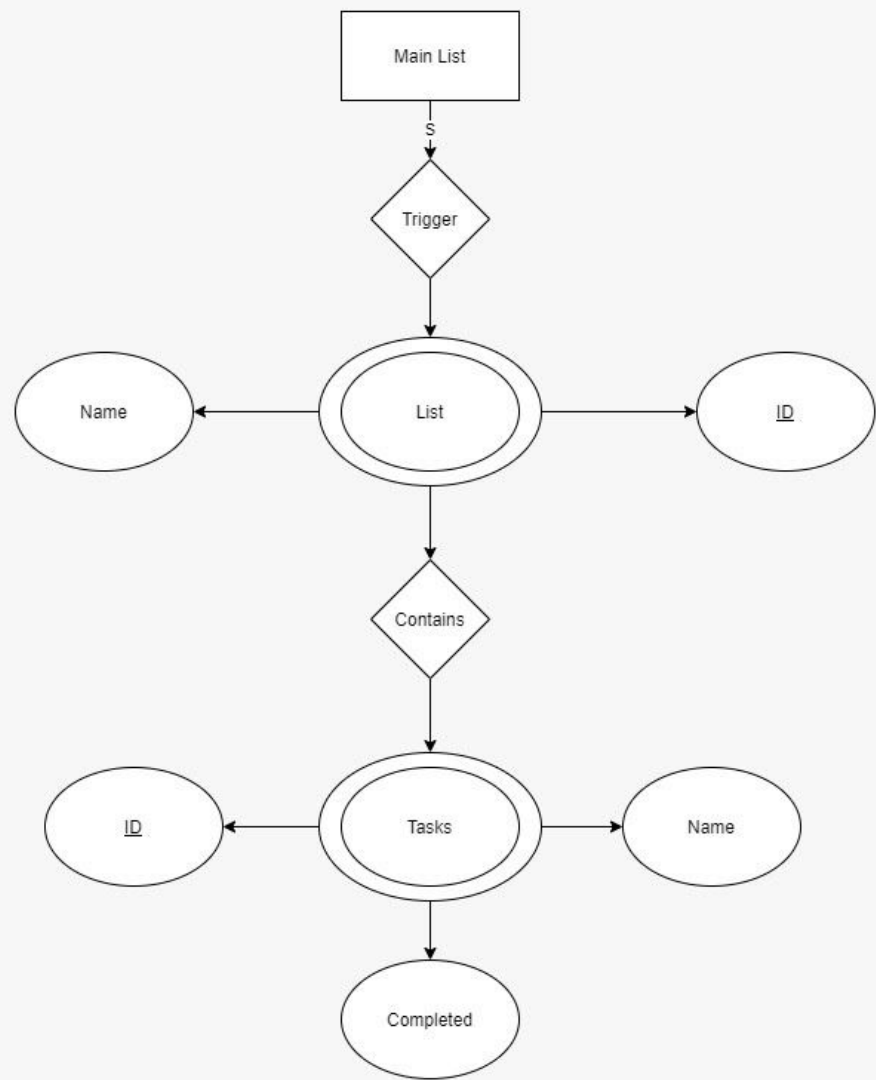
Database Hosting - **Microsoft Azure**

APIs - **NodeJS**

Desktop App - **Flutter**



ER -Diagram



Procedure

— — —

Each User is assigned with their own Database.

- Each Database contains a Primary Table of Lists.
- Each List added to the primary as a column gets its own Table using Triggers.
- Database was created on Microsoft Azure and the using its connection parameters, connected to an API platform built upon NodeJS.
- For all requests, the Application calls upon an API from the Node App, which then communicates with the Database on Azure, ensuring users cannot meddle with Data.
- The User facing Application was built using Flutter, and is able to run on all Desktop Platforms.
- The Flutter App uses HTTP requests to communicate with the API whenever the User performs any actions.

Conclusion

— — —

- Our project implements the concepts of DBMS successfully to easen Task & Project Management for working Individuals.
- Scope of Improvement:

Caching to be implemented using another Database self-contained locally with the User facing Application which shall eliminate all User Facing Delays in Data Synchronization.

- GitHub Link: <https://github.com/rushilrai/DoTo>