PROJECT TITLE:

TO DO LIST APPLICATION.

TO GET ORGANIZED

OBJECTIVES OF THE PROJECT:

> By keeping such a list, you make sure that your tasks are written down all in one place so you don't forget anything important.

And by prioritizing tasks, you plan the order in which you'll do them, so that you can tell what needs your immediate attention, and what you can leave until later.

TEAM INTRODUCTION:

VADIGE SRISHASHANK

EEE



SRIRANGAM.THARUN KUMAR

ECE



VETCHA KARISHMA

ECE



PRESENTATION LAYER:

- > The Presentation Tier is responsible for presenting data and interacting with the user.
- > It is implemented by a client responsible for all the user experience.
- The client interacts with the ORM API to read, write, verify, or perform any other action, calling ORM API methods through remote procedure calls (RPCs).
- These are sent to the Apache tomcat server for processing, and then the results are sent back to the client for further handling.

BUSINESS LOGIC LAYER:

- The Logic Tier is responsible for all the interactions with the data layer, and is handled by the Apache tomcat server.
- As a general rule, the low-level database should only be accessed by this layer, since it is the only way to ensure security access control and data consistency.
- At the core of the Apache tomcat server, we have the object-relational mapping (ORM) engine for this interface.
- The ORM provides the application programming interface (API) used by the add-on modules to interact with the data.

DATA LAYER:

- The Data Tier is the lowest-level layer, and is responsible for data storage and persistence.
- Apache tomcat relies on a MySQL server for this. MySQL is not only supported database server, but this is a design choice.
- > So, other databases such as H2 are also supported.
- Enary files, such as attachments of documents or images, are usually stored in the filesystem, in a directory referred to as the file store.

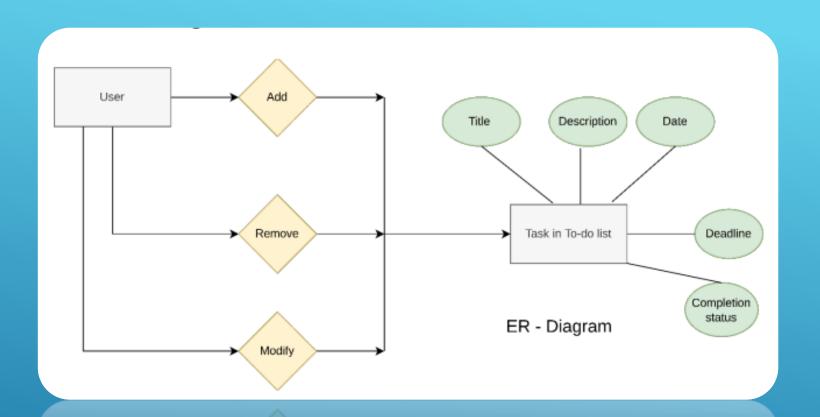


Fig: Entity-Relationship Diagram

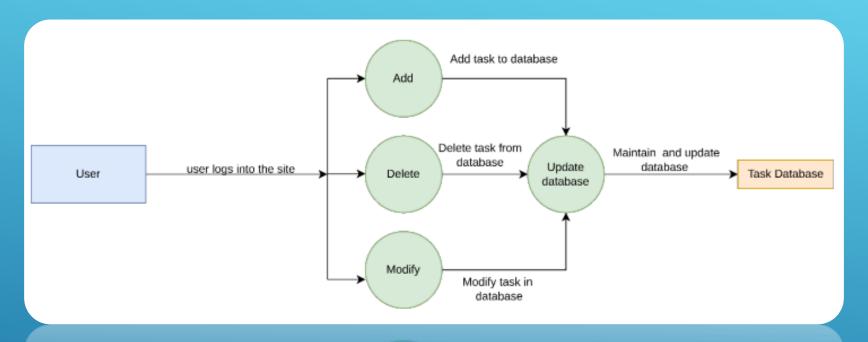


Fig: Data flow diagram

BOUNDARY CONDITIONS:

- Users can register/login.
- Each user will have the ability to create 10 tasks, add dates for targeted completion.
- Each user will have the ability to mark tasks as completed, when marked as completed the task will be highlighted with green color.

TECHNOLOGIES USED:

- >Java 11
- >4.16.1 spring tool suite
- >MySQL 8.0
- > React js es6 version
- >Css3
- >Npm -v 16.71
- The main purpose of using these technologies is because they are more efficient and easy to work on them for this project



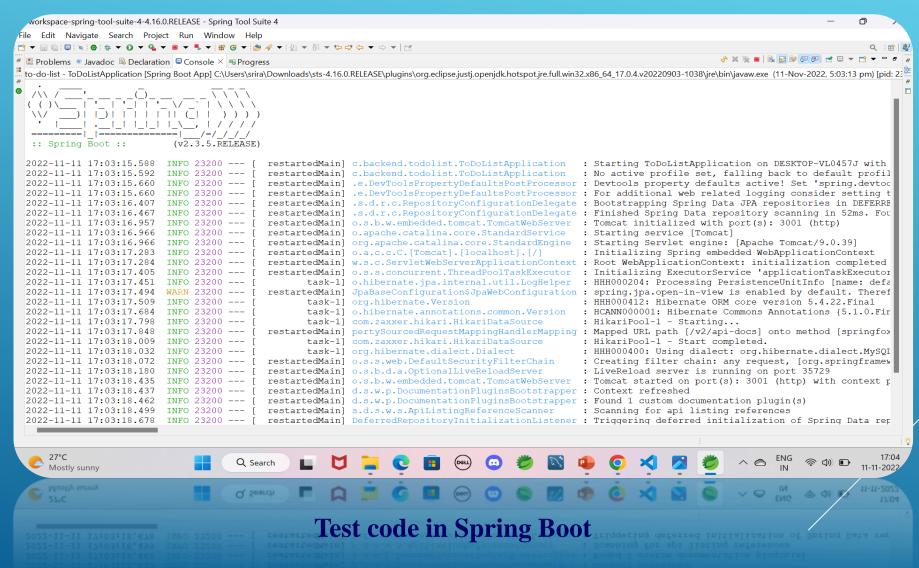
ONE FEATURE THAT WE WANT TO HIGHLIGHT:

I want to highlight, that each user has their own login and there unique task displayed which can be marked as completed /uncompleted and shown in green color (highlight).

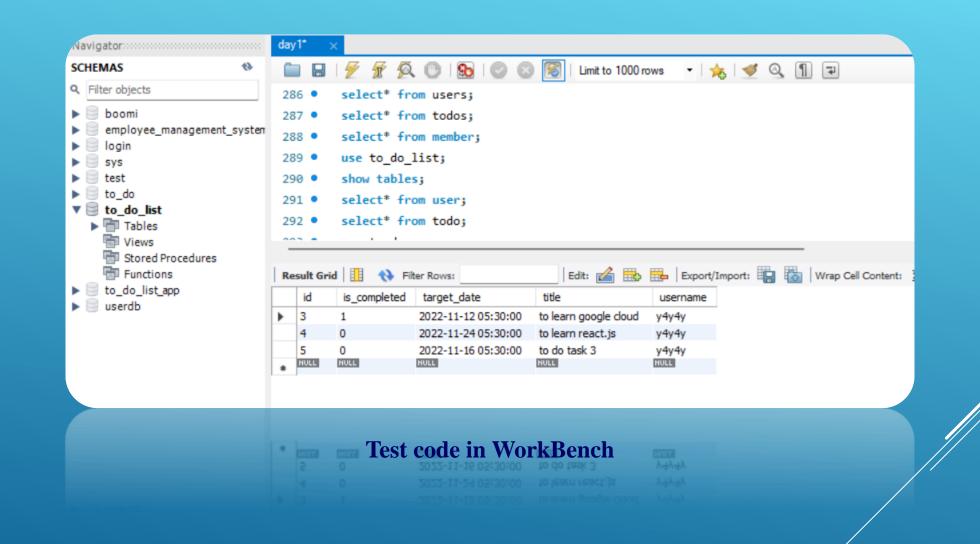
FEATURES THAT YOU WOULD ADD, OF PERMITTED MORE TIME:

> Tried to develop notification feature to the application but we have to learn more about the react js, So if time would permitted we have learnt more and tried more to implement it the application.

TESTING OF THE CODE:







LESSONS LEARNT:

During this project we have faced some errors during runtime in Spring Boot and React.js.

- When the code is compiled in spring boot we got error which is about URL and class path not found so for that we all together discussed about it with our trainer and solved it.
- And React.js also the code didn't got compiled and we shared our thoughts and made it to work.

ANY SPECIFIC TOOLS, METHODS:

Methods:

- > Jwt method for user authentication.
- > Web security configuration for password encoding.
- > Exception handling method for handling exceptions like user already exists, invalid password.
- > Crud JPA repository method for create, read ,update and delete the tasks (to do)and users.

Tools:

- **ReactJS**: React (also known as React.js or ReactJS) is a free and open source front-end JavaScript library for building user interfaces based on UI components.
- ➤ **Visual Studio Code**: Visual Studio Code, also commonly referred to as VS Code, is a source code. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.
- Workbench: MySQL Workbench is a visual database design tool that integrates SQL development, administration, database design, creation and maintenance into a single integrated development environment for the MySQL database system.
- > **Spring Tool Suite** (STS): STS is an Eclipse-based development environment that is customized for the development of Spring applications. It provides a ready-to-use environment to implement, debug, run and deploy your applications. It also includes integration for Pivotal to Server, Pivotal Cloud Foundry, Git, Maven and AspectJ.

THANK YOU...