**DESCRIPTION**

The solution for Online TODO List was implemented using Spring Boot and in-memory database (H2). As per my research, the in memory H2 database is highly compatible and easier to implement using the spring boot framework. Basic coding structure containing separate packages for entities, controllers and services are present for ease of understanding.

The functionality of the online TODO list includes adding, updating and deletion of any task. All the tasks present in the list can also be viewed. Each task consists of a Task ID, Task Name, Task Description, Task Creation Date, Task Updating Date.

**DESIGN EXTENTIONS**

The current design can be extended to include the following features if more time was provided:

* Currently the tasks shown are of one user. A user login screen with credential validation API can be implemented to extend the functionality to a user level.
* The tasks deleted are now removed from the database. These tasks can be stored in an archive table such that tasks mistakenly deleted can be later be restored. The tasks in the archive table are deleted every month (time period can be varied depending on the security requirements).
* The tasks can be sorted using any of the fields – task id, task name, task description, creation or update date.