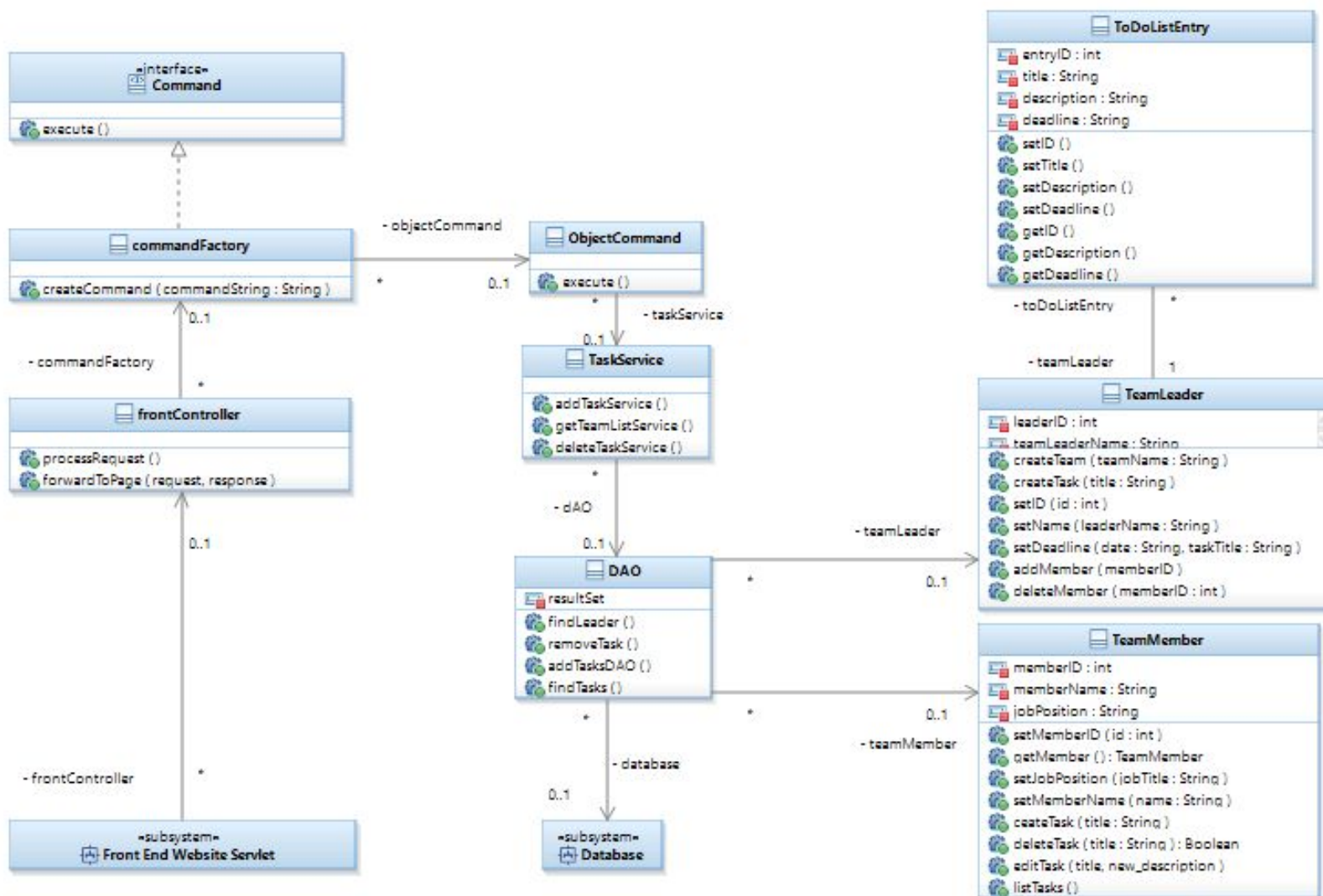


# Software Engineering 3 CA Part 2

## Redesign of the first CA deliverable

In approaching the implementation of my design for an organisational to-do-list I realised that my design was not geared for a web application. I think this was largely due to not having any work done within web applications and the lab where we started working with web applications being directly after the submission for the design. We did discuss these in class, but until the labs these concepts felt abstracted. After using jsp files, front controllers and dao classes I have vastly changed my design.

### Updated class diagram:



## Changes I have made to my class diagram:

Firstly I added the front end web servlet which contained the jsp file and interacted with the user. The front controller receives all of the data from the form submission and using command factory (that implements the methods within command) creates a new command object.

The command object will be created based on what the value of “action” was within the form. If the value of “action” was “addTask” then we will create an “addTask” object that will instantiate the relevant classes and call the correct functions through TaskService and TaskDao.

The Dao class contains the necessary functions that perform the relevant task. For add task I insert into the database, query the updated information and return it. For the tasks I return an arraylist of type “ToDoListEntry” all the way through the stack and set it as an attribute for the jsp files to access.

## New add tasks sequence diagram (That I have implemented).

