

# Semester Project Deadline Report

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- For the second assignment I fixed some bugs, added a few new functionalities but in the end not a lot has changed. I changed the way I send requests to other micro services. Also I added response messages to MS3. Descriptions are added to to-dos. While making changes to the code, I added comments to the code which purpose was not 100% clear. I added singleton pattern to ToDoListManagement to make unique listIDs possible. It is still not the best way to manage ids, but for a small program like this it should be good enough. CustomizationBean class was also added, as I thought it was a better way to customize servlet(servlet port in this case, but can be used to additionally modify servlet if needed). As for HTTP requests and response, code is now a bit cleaner and better organized. I decided not to delete some of the functions that are currently not in use, because I plan, for learning purposes, to improve the code later on. In the end we struggled a bit with sending notifications to between the services but we managed to make everything work. Now my service is informing ms4 and ms1 about all the changes being done to todo lists.
- My microservice has no interface, but It can be used as a standalone app with some additional software like postman, curl and sites like httpbin.org. GET methods can of course be used via browser. I tried to write code as clear as possible, so that everybody can see what class has what functionality and that the connections between the classes are understandable. I also tried to name the functions and classes so that they are descriptive and that everyone can easily understand what the functionality of the class/function is.
- The app can be started in a couple of ways. One of them is through the terminal(for example I opened C:\Users\MilosJ\Documents\Git\g2017w\_dse\_0207\ms2 in terminal) via command :

**mvn spring-boot:run**

The other way to start the app is to make a jar file and then run the jar file(same way as in supd.pdf). Following commands should work:

**Command to make jar : mvn package**

**Command to run jar: java -jar ms2.0.0.1.jar**