



2DV609

# GymUP! Final Release



## Deviations

First of all, the main deviation in this project is related to back-end framework selection. Due to the development team previously having rich experience in terms of using Spring+SpringMVC+MyBatis (SSM), therefore in the initial design document the above frameworks were selected. However, due to the ever-advancing technologies, the development team decided to use the update version framework SpringBoot which can be considered as an encapsulation version of traditional Spring + SpringMVC. The update will largely improve the team's development speed as well as reduce the possibility of importing wrong dependencies of the project i.e. dependency incompatibility issues. Furthermore, by using MyBatis-plus as the persistence layer will provide more flexibility for the project and reduce the amount of code for the project. It utilizes the Mapper layer to extend BaseMapper class from the framework which does not need DAOImpl layer as well as the Mapper.xml file for SQLs from the standard MyBatis framework. By using the update version of the frameworks, our development efficiency has been greatly improved.

Another aspect of deviation is that because of a tight schedule, we did not have sufficient time to implement the admin client side. However, because we already know how to implement the web application based on SpringBoot framework, if we have sufficient time the admin client side can also be realized in a proper way. The time constraints also led to certain cut content in a way considering that originally a separate legacy system was considered and even coded and it was supposed to serve as sort of what can be expected of an already established gym system and it was a JavaFX application with reference to a previous similar project however due to the complicity it involved and the library setup, it was cut off. Time constraints also spell less time for bug-hunting and testing in general which is a major problem regardless of the project size as it leaves significant room for errors that might be missed throughout the project's timeline and its development.

## Time Report

Date	Member	Activity	Time (hours)
2022/05/07	Yuyao Duan	Create project structure and add dependencies	2
2022/05/07	Li Ang Hu	Read Background Documents	1.5
2022/05/08	Yuyao Duan	Config configuration files	0.5
2022/05/08	Fabian Dacic	Setup a repo for the project	1
2022/05/09	Yuyao Duan	Program Controller layer, Entity layer, Service layer, Mapper layer	4
2022/05/10	Fredric Eriksson	Researching how major implements can be used	3
2022/05/11	Yuyao Duan	Improve the project structure and add annotations	2.5
2022/05/12	Li Ang Hu	Proofreading D1	2
2022/05/12	Fredric Eriksson	Setting up temporary legacy system	4
2022/05/12	Fabian Dacic	Coded legacy system	5
2022/05/13	Yuyao Duan	Create and test the test classes	2
2022/05/13	Fabian Dacic	Fixed a bug in the legacy system	1
2022/05/13	Fabian Dacic	Added export functionality to legacy system	1
2022/05/15	Yuyao Duan	Program back-end in general and assist other teammates	4
2022/05/15	Fredric Eriksson	Providing assistance and helping with gathering solutions for other team members	4
2022/05/16	Li Ang Hu	Study D3 documents	2
2022/05/16	Yuyao Duan	Revise D1 document	1.5
2022/05/16	Long Ma	Revise D2 document	2.5
2022/05/16	Fabian Dacic	Revise D1 document	1
2022/05/16	Fabian Dacic	Revise D2 document	1
2022/05/17	Yuyao Duan	Assist front-end team to understand business logic	3.5
2022/05/17	Long Ma	Revise D2 document	1.5
2022/05/17	Li Ang Hu	Proofreading D2	1
2022/05/17	Fabian Dacic	Worked on project structure	1
2022/05/18	Long Ma	Revise D2 document	1

2022/05/18	Long Ma	Revise D1 document	0.5
2022/05/18	Long Ma	improve project structure and add dependencies	3
2022/05/18	Fredric Eriksson	Providing assistance and helping with gathering solutions for other team members	4
2022/05/18	Li Ang Hu	Double check D3	3
2022/05/19	Yuyao Duan	Program back-end in general	3
2022/05/19	Fabian Dacic	Worked on an SQL script for database	2
2022/05/19	Fredric Eriksson	Providing assistance and helping with gathering solutions for other team members	4
2022/05/19	Long Ma	Create and improve business layer	2
2022/05/19	Long Ma	Make the database initialized automatically	3
2022/05/19	Fredric Eriksson	Researching and preparing to work with controller classes	4
2022/05/20	Fabian Dacic	Worked on adding background to main page and fixed bugs	4
2022/05/20	Long Ma	Connected database properly	2
2022/05/20	Long Ma	Add method to booking service	3
2022/05/20	Long Ma	Use the post request connection page to submit information.	4
2022/05/21	Fredric Eriksson	Researching and first steps on setting up controller classes	6
2022/05/21	Li Ang Hu	FrontEnd development	3
2022/05/21	Yuyao Duan	Test front-end and back-end interactions	2
2022/05/21	Long Ma	Add method to booking service	3
2022/05/21	Fabian Dacic	Added the functionality of getting bookings by member id	2
2022/05/21	Fabian Dacic	Worked on adding datepicker and time-picker	3
2022/05/21	Fabian Dacic	Implemented LocalStorage and tried node js for database	3
2022/05/22	Yuyao Duan	Assist front-end team understand business logic	3
2022/05/22	Li Ang Hu	Front-End Design	3

2022/05/22	Fabian Dacic	Worked on equipment page to make it a html table	4
2022/05/23	Fredric Eriksson	Researching methods to interact with HTML files	5
2022/05/23	Yuyao Duan	Program Controller layer, Service layer, and Mapper layer	4
2022/05/23	Long Ma	Fix bugs	4
2022/05/23	Fabian Dacic	Worked on request handlers for time pickers and confirmation	2
2022/05/24	Li Ang Hu	JS coding	3.5
2022/05/24	Fabian Dacic	Added HTML table for member bookings	4
2022/05/24	Yuyao Duan	Revise D2 document	5
2022/05/24	Fredric Eriksson	Import information from back end to Html File	4
2022/05/24	Fabian Dacic	Worked on site redirection and some front-end	3
2022/05/25	Yuyao Duan	Assist other teammates to revise D2 document	4
2022/05/25	Long Ma	Update legacy system	3
2022/05/25	Long Ma	Create a show booking page	1
2022/05/25	Long Ma	Connect front and back	1.5
2022/05/25	Li Ang Hu	Assist Teammates	2
2022/05/25	Fabian Dacic	Worked on front-end for html tables	2
2022/05/26	Yuyao Duan	Test system in general	1
2022/05/26	Long Ma	Revise D2 document	2
2022/05/26	Long Ma	Revise D1 document	1
2022/05/26	Long Ma	Update legacy system	2
2022/05/26	Long Ma	Fix bugs	3
2022/05/26	Fabian Dacic	Worked on front-end and fixing bugs	3
2022/05/27	Long Ma	Update css	3
2022/05/27	Fabian Dacic	Added deletion of bookings functionality	3
2022/05/27	Fabian Dacic	Change query and code for seeing available equipment	2
2022/05/27	Li Ang Hu	Reposition Frame in HTML	3
2022/05/27	Yuyao Duan	Assist front-end team to test new functionalities	2.5

2022/05/27	Fabian Dacic	Added background to some pages and bug-fixed	3
2022/05/27	Yuyao Duan	Revise D2 document	3
2022/05/27	Long Ma	Update background images and typography	2
2022/05/27	Fredric Eriksson	Providing assistance and helping with gathering solutions for other team members	4
2022/05/28	Fredric Eriksson	Helping with D1 and D2	3
2022/05/28	Fabian Dacic	Proofreading and making slight edits to documents	2
2022/05/28	Yuyao Duan	Write D3 document	1
2022/05/28	Li Ang Hu	D3 proofreading	2