# Milestone 3
# Progress Update

## For
# TEMPO

**San Hae Kim (110398442)**
sanhae.kim@stonybrook.edu
**Kyu Hee Park (110398044)**
kyuhee.park@stonybrook.edu
**Dong Yeob Lee (109626747)**
dongyeob.lee.1@stonybrook.edu

## Expected vs Actual Progress

| Expected Progress | | | Actual Progress | |
|---|---|---|---|---|
| 11/6~11/8 | Select Room (frontend) | | 11/5~11/8 | Optimized Facility frontend |
| 11/9~11/11 | Select Room (backend) | | 11/8~11/10 | Optimized Facility backend |
| 11/6~11/11 | Timetable (frontend) | | 11/7~11/10 | Show Facility page (backend) |
| 11/9~11/11 | Add Reservation (frontend) | | 11/10~11/14 | Show Facilitypage (frontend) |
| 11/12~11/15 | Timetable (backend) | | 11/7~11/12 | Studying Timetable APIs |
| 11/12~11/14 | Add Reservation (backend) | | 11/12~11/16 | Timetable (frontend) |
| 11/12~11/14 | Reservation Request Form (frontend) | | *11/15~ | Timetable (backend) 90% |
| 11/15~11/17 | Reservation Request Submit (backend) | | *11/15~ | Reservation system 10% |
| 11/15~11/17 | Admin Reservation Request Approve (frontend) | | | |
| 11/16~11/18 | Admin Reservation Request Box (frontend) | | | |
| *11/18~ | Admin Reservation Request Approve (backend) | | | |
| *11/19~ | Admin Reservation Request Box (backend) | | | |

* : in-progress

## Milestone 3 Analysis

According to the expected progress, we had to finish implementing the reservation system for facilities that do not require approval and be in progress of implementing the reservation system for facilities that require approval. In reality, however, we finished the timetable function and we nearly completed the reservation system for open facilities. There are multiple reasons that we are falling behind schedule.

Primary reason is a timetable. We first tried to study existing APIs for generating timetables. After a few days of study and research, however, some of them turned out to be useless for our goals, and others were too complex and huge in scale to understand. Therefore, we decided to make it from scratch and it took longer than we expected. Since it was the essential feature before progressing to the next one, it caused a delay in overall.

Next, some small features and bugs, such as bootstrap modal, toggle button, and a radio button with textarea, were not seen during the initial scheduling. We spent a considerable amount of time into those features and fixing bugs.

Lastly, we did not fully understand the implementation of MVC pattern in Laravel. At some point, we were so confused in connecting functions in controllers and urls. The fault was mainly on the lack of understanding Laravel.

To meet the final deadline, we will cut off the user manual that was in the original plan. Instead, we will try to explain it to the best within the website. Since remaining features after the reservation system, which are reports and penalty, do not incorporate a special object like a timetable, we can try to shorten the time for implementation. Additionally, our second midterms were mostly in the second week of November. Since we do not have any tests until the final weeks, we will have more regular meeting times to work on the project.

Following are the explanations of changes from the original requirements and design documents. From the facilityController, we removed 'edit facility status' function because it was already included in 'edit facility' function. Also, instead of 'end_time' in 'Timeslot' model, we decided to put the 'duration'.

**Updated Schedule**: https://app.instagantt.com/shared/5dd302fc3aec52784e06cbda