

Scope of Work

for Seat Reservation Website

Document date: May 25, 2025 (updated June 29, 2025)

Completion date: July 20, 2025

Live date: August 4, 2025 at 20:00 KST

June 29, 2025 - Addendum 1

June 29, 2025 - Addendum 2

Introduction

Hyelin will hold a fan event on September 14, 2025 at 15:00 KST.

A website will be created to allow attendees to select their seat from a map of available seats. After selecting their seat, the attendee will be redirected to the payment form.

Payments will be handled externally, and the statuses will be relayed back to the website manually by staff. A content management system will be provided to make this easier.

Deliverables

1. Website hosting
 - a. The website server will be provided free of cost by Nathan Belue.
 - b. The website domain name will be registered and billed at cost.
 - c. The SSL certificate will be set up and billed at cost.
2. Content Management System (CMS)
 - a. User management: index, create, update, delete, change password, login, logout
 - b. Seat management: index, view details, update status
 - c. Configuration management:
 - i. Toggle or schedule "live" mode.
 - ii. Throttle users and bots.
3. Public website
 - a. Pages:
 - i. Front page (before live): short introduction, save-the-date
 - ii. Front page (after live): short introduction, seat map
 - iii. Legal pages: privacy policy, any others legally required or suggested
 - b. Localization
 - i. The website should be available in both Korean and English.
 - ii. Detect language if possible, default to Korean if unknown.
 - c. Seat selection process:

- i. User selects an available seat from a seat map of the venue.
 - ii. User enters their information.
 - iii. User proceeds to the payment form.
 - d. Seat map considerations:
 - i. The seat map should update in near real time.
 - ii. When multiple users simultaneously select a seat: only one user is given the seat, and the others are given a message that it was taken.
 - iii. When a payment fails, the reserved seat should be freed.
- 4. Automated and semi-automated testing
 - a. Unit tests for all logic.
 - b. Integration tests for important paths.
 - c. Stress tests

Exclusions

- 1. Payments
 - a. Payment processing will be handled externally.
 - b. Payment statuses will be manually checked by a staff member who must then manually update the pending statuses in the CMS.
- 2. Multiple seat selections
 - a. Users may only select single seats.
 - i. This is a limitation of the external payment form. If that limitation can be lifted, then the feature can be reconsidered *after* this document's work is fully completed.

Timeline

Most phases will be worked in parallel, but their completions will be on the dates given.

June 1 - Rough Sketch. A rough representation of the website is uploaded to the server and can be accessed from its domain name. The tech stack is confirmed to work.

June 8 - Visual Draft. The layout of the website and its CMS can be seen

June 15 - Complete CMS. Staff can log in and manage the website.

June 22 - Complete public website. The website works and all critical features are completed.

June 29 - Realtime updates. The seat map updates in near real-time.

July 6 - Final draft. The website looks and acts like it should on the completion date.

July 13 - Stress tests. The website has been tested from many angles and pushed to its limits to ensure that it will handle the stress from the event.

July 20 - Completion. Final tweaks, tests, and configurations have been done.

August 1 - Go live!

Billing

Estimated total cost is \$87 USD.

- Server hosting: *free*
- Domain name: \$20 USD estimate
- SSL certificate: \$67 USD estimate

Addendum 1

Addendum date: June 29, 2025

The actual total cost was \$20. A free SSL service was used to cut costs.

Addendum 2

Addendum date: June 29, 2025

The time frame had to be updated to accommodate additional work needed. The time frame from this date is:

July 6 - Final draft. The website looks and acts like it should on the completion date.

July 13 - Stress tests. The website has been tested from many angles and pushed to its limits to ensure that it will handle the stress from the event.

July 13 - Completion. Final tweaks, tests, and configurations have been done.