

박근영과 누나들

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# TimeCodi

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홍시현

김소영

이현영

조서연

박근영



**01. Objective & Motivation**

**02. Project Progress  
& Role of each member**

**03. Final Design**

**04. Final Implementation**

**05. Challenges**

**06. Limitation : constraint, assumption**

**07. Evaluations**

**08. Demonstration (Video)**



# **01** **OBJECTIVE & MOTIVATION**

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## MOTIVATION

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- **Various time zones available for each person**
  - **Difficult** to find a common available time
  - **Repeat** the same work
  - **It's annoying** and a **waste** of time!
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## OBJECTIVE

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- **Easily** coordinate schedules with members
  - **Recommend** time zones when all members are available
  - **No need to re-enter schedules** when creating other meetings
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# **02**

## **PROJECT PROGRESS**

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# Real schedule with Milestones

Schedule	5	6	7	8	9	10	11	12	13	14	15
Frontend	<div></div> <div>Design Prototype</div>	<div></div> <div>Login &amp; User Page</div>	<div></div> <div>Time Zone Setting Page</div>			<div></div> <div>Friends' Time Zone Page Group Page</div>			<div></div> <div>Deploy &amp; Review Other UI</div>		
Backend	<div></div> <div>Design DB Structure</div>	<div></div> <div>Login &amp; Register Function</div>	<div></div> <div>Time Zone Setting Function</div>			<div></div> <div>Member &amp; Friend Function</div>	<div></div> <div>Admin &amp; Bookmark Function</div>	<div></div> <div>Deploy &amp; Review Recommendation &amp; Vote Function</div>			



## Role of each member

### Front-end

김소영

- **Design:** UX/UI
- **Implement**
  - Start Page
  - Login & Register Page
  - Friends Page
  - User Profile
  - Bookmark groups

조서연

- **Design:** UX/UI
- **Implement**
  - User schedule Page
  - Group Page
  - Timetable Page
  - Generate Meeting

홍시현

- **Design** API
- **Connect** React and DB
- **Implement**
  - My Page
  - Group Page
  - Timetable Page
  - Vote Page
  - Schedule Mapping

### Back-end

이현영

- **API**
  - Google map & calendar
  - KakaoTalk share (Invite func.)
- **Implement**
  - Calendar functions
  - Member functions
  - Recommendation & Vote functions

박근영

- **Design** DB structure
- **Connect** React and DB
- **Deploy**
- **Implement**
  - Login & Register functions
  - Friend functions
  - Admin & Withdraw functions



# 03

## FINAL DESIGN


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# Start Page

## Login & Register Page


시작페이지 전체들어  
감

**TimeCodi**

**Hello! let's get started**  
Sign in to continue.

**SIGN IN**

Don't have an account? [Create](#)

**TimeCodi**

**New here?**  
Signing up is easy. It only takes a few steps

☐ I agree to all Terms & Conditions

**SIGN UP**

Already have an account? [Login](#)

# Introduce Page

- Web Page Usage Guide

how-to

Make Meeting

STEP 1

Press the pink-box to see the timetable of your group members. It wil show the week which the pink-box is attached to.

Group Calender

Click the pink box to see available time of the week.

June 6/2023

TODAY

SUN	MON	TUE	WED	THU	FRI	SAT
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1

STEP 2

Ta-da! This timetable will show you when your members are most available. Enter how much your meeting will take and generate vote.

Your group members are available at..

SUN

MON

TUE

WED

THU

FRI

SAT

SUN	MON	TUE	WED	THU	FRI	SAT
8:00						
9:00						
10:00						
11:00						
12:00						
13:00						
14:00						
15:00						
16:00						
17:00						
18:00						
19:00						
20:00						
21:00						
22:00						
23:00						
24:00						

How long will it take? 0 hours 0 minutes

Generate Vote

STEP 3

When vote is generated, select your choice and submit. Only the Admin member of the group can end vote

Vote

Check the box to vote and submit.

Day	Start Time	End Time		
2000-01-01	00:00:00	23:00:00	<input type="checkbox"/>	

Submit

End vote

STEP 4

You can see the result of the vote in this box. The Admin member can select the best time for your meeting and finish "Make Meeting"!

Vote Result

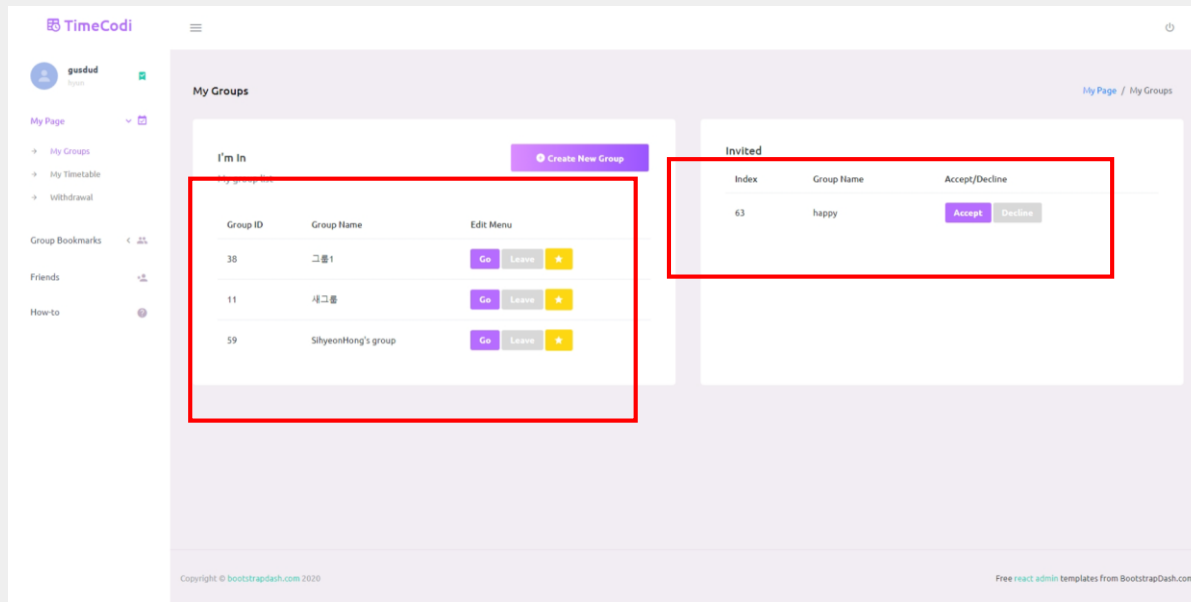
See the vote result!

Day	Start	End	Δ	
2000-01-01	00:00:00	23:30:00	Δ 30	<input type="radio"/>

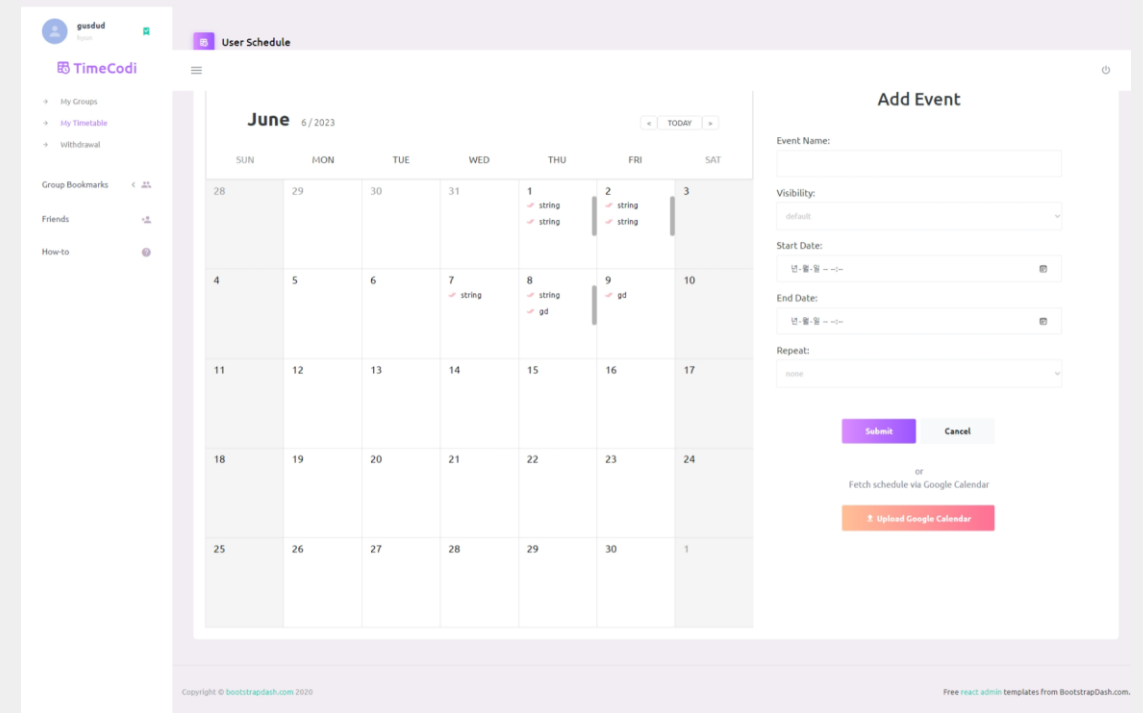
Make Meeting

## My Page

### My Group list & invited list

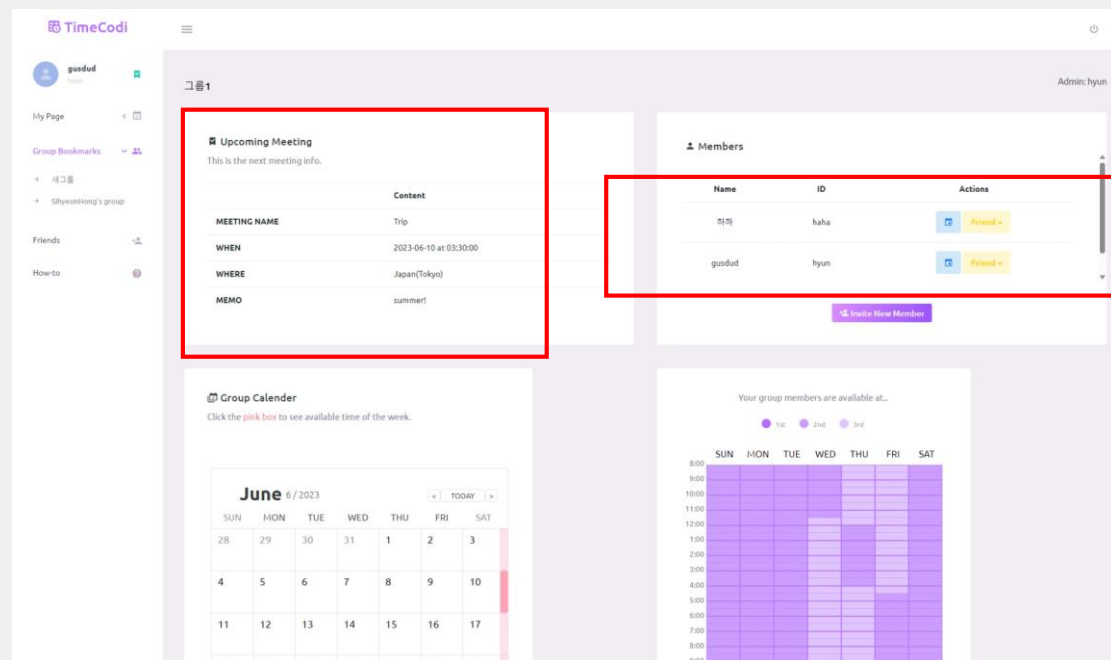


### Timetable

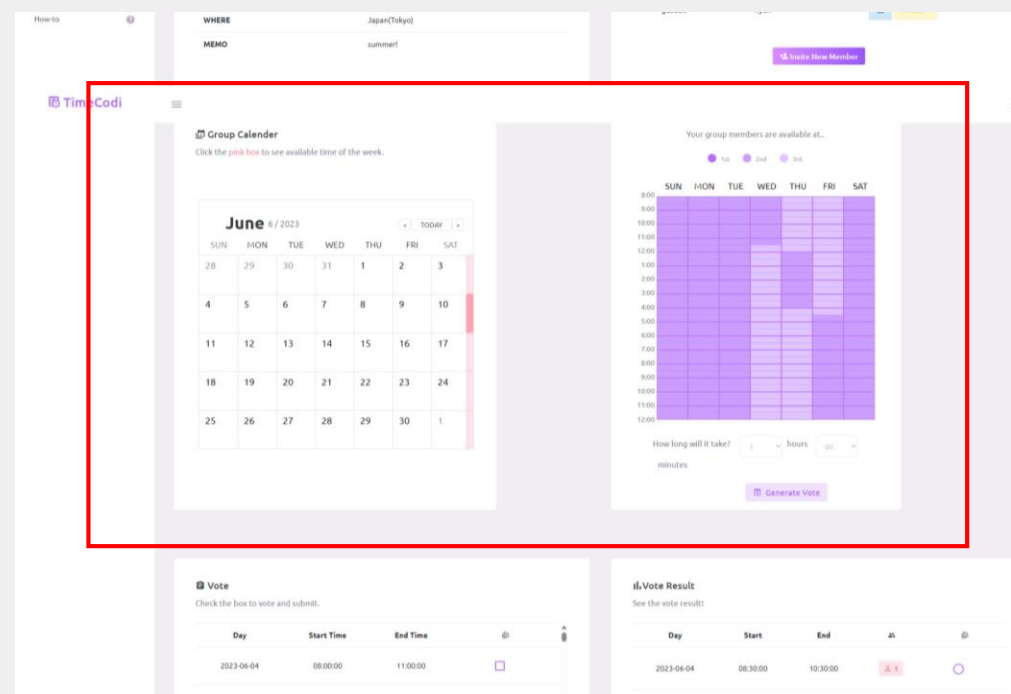


# Group Page

## Meeting info. & Group member



## Group Calendar



## Group Page

## Make New Meeting

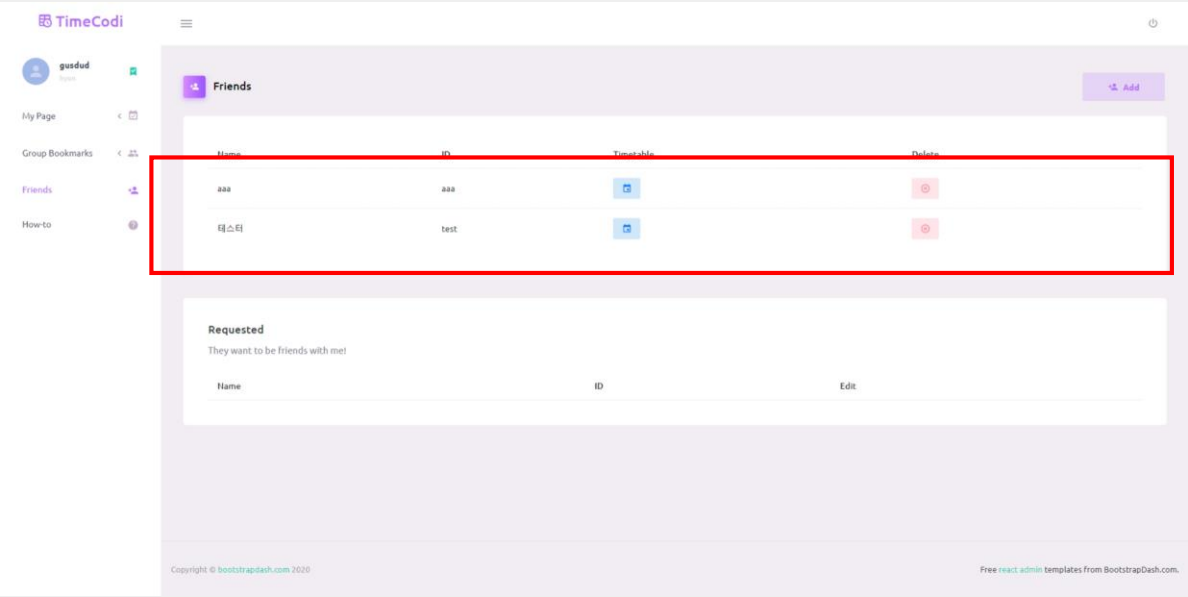
The figure displays five sequential wireframe screenshots of a web application for group voting.

- Calendar View:** Shows a calendar for June 6th, 2023, with a 'Today' button and a grid of dates from 1 to 31.
- Heatmap View:** A heatmap showing the distribution of votes across a 24-hour period (0:00 to 23:00) for each day of the week (SUN to SAT). The color intensity represents the number of votes, with a legend indicating 'How long will it take?' in hours and minutes.
- Vote Screen:** A screen titled 'Vote' with a subtitle 'Check the box to vote and submit.' It contains a table with columns: Day, Start Time, End Time, @, and a checkbox. The table lists four voting slots for June 6th, 2023, each with a 'Submit' button and an 'End vote' button.
- Vote Result Screen:** A screen titled 'Vote Result' with a subtitle 'See the vote result.' It contains a table with columns: Day, Start, End, @, and a checkbox. The table shows the results for the four voting slots, with a 'Make Meeting' button.
- Admin Screen:** A screen titled 'Admin' with a subtitle 'Danger Zone'. It contains a table with columns: Name, ID, and Actions. The table lists one member, 'haha', with a 'Transfer Admin' button and a 'Kick out' button.

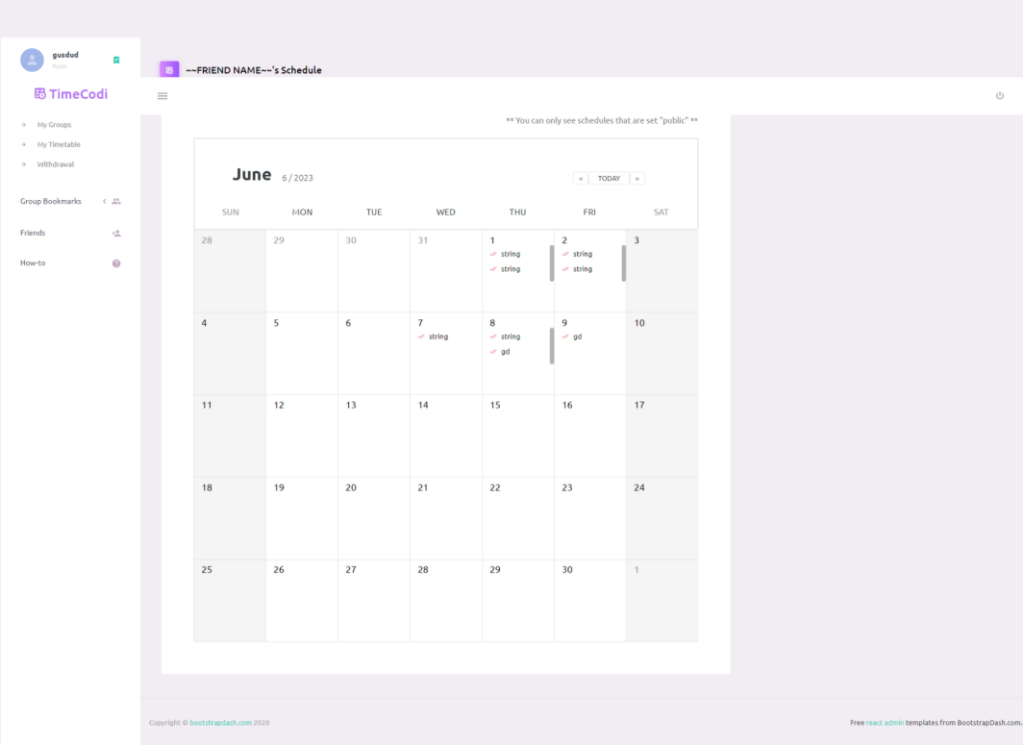
[illegible]

# Friend Page

## Friend list



## Friend Timetable



# 04

## FINAL IMPLEMENTATION

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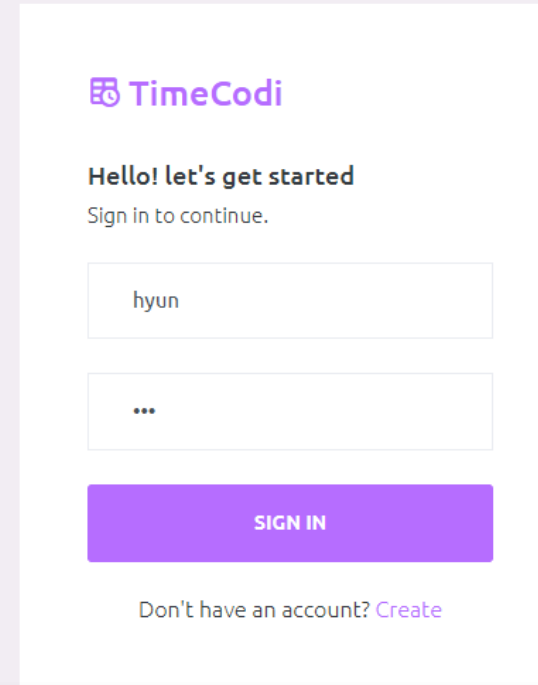
# Login & Register & Withdraw

- **User Account**

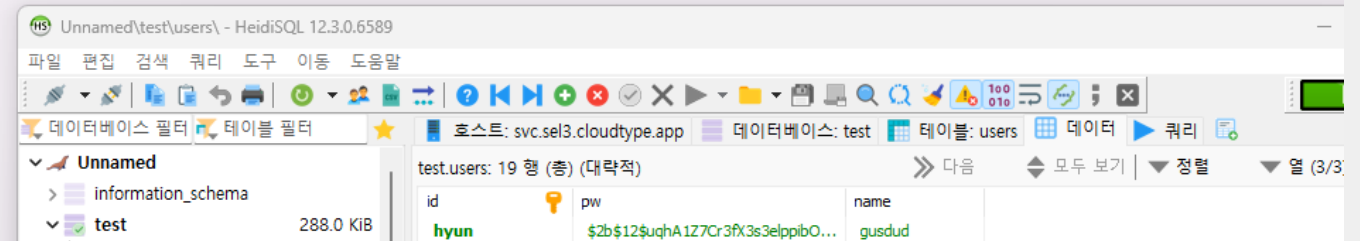
**: id, password (hash), username**

- **Access token**

**: 1 hour**



The image shows a login interface for 'TimeCodi'. At the top is the logo 'TimeCodi' with a clock icon. Below it, the text 'Hello! let's get started' and 'Sign in to continue.' is displayed. There are two input fields: the first contains the text 'hyun' and the second contains three dots '...'. Below the input fields is a large purple button labeled 'SIGN IN'. At the bottom, there is a link that says 'Don't have an account? Create'.

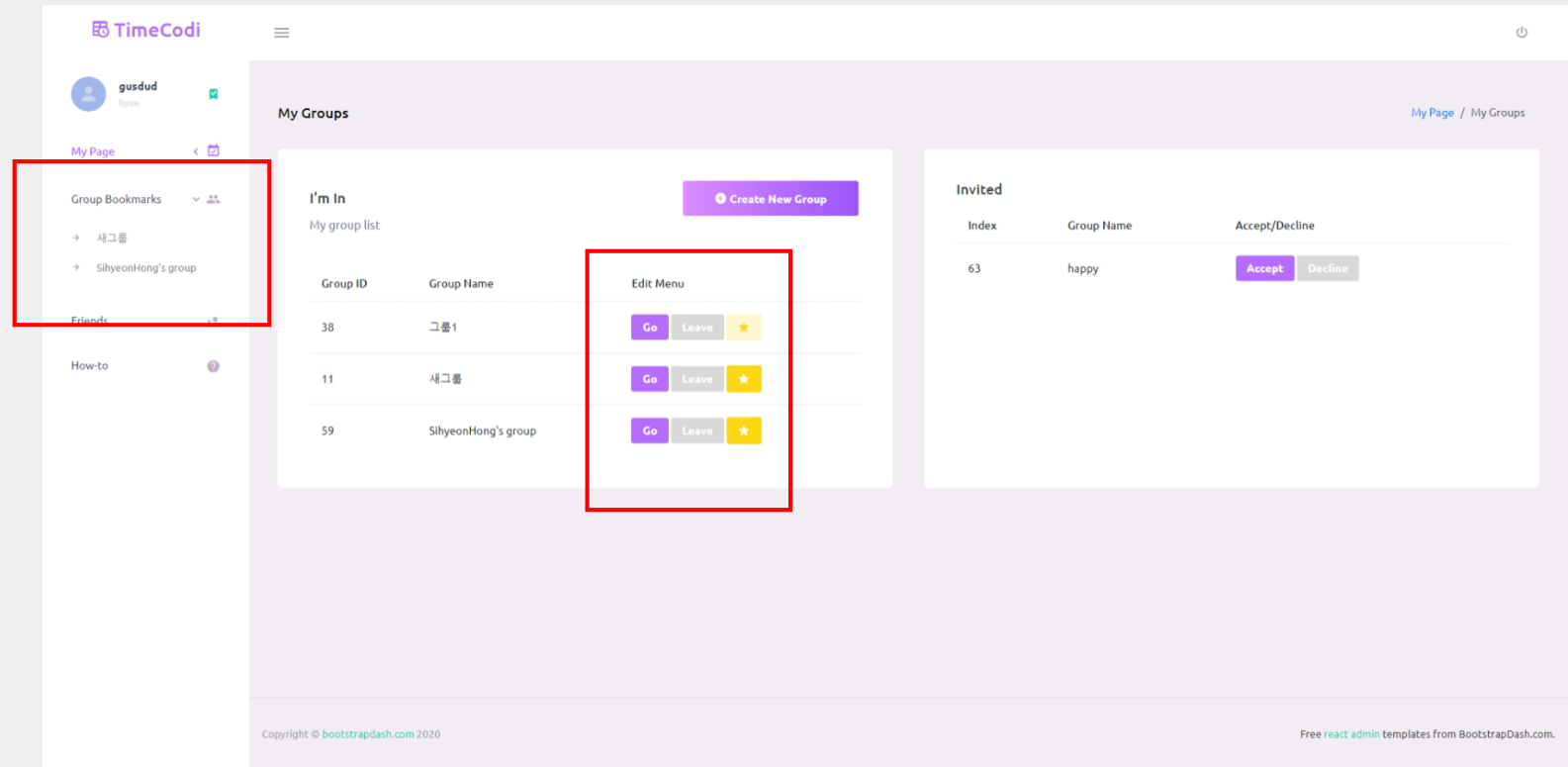


The image shows a screenshot of the HeidiSQL database management tool. The title bar indicates the connection is 'Unnamed\test\users\ - HeidiSQL 12.3.0.6589'. The interface shows a tree view on the left with 'test' selected. The main area displays a table named 'test.users' with 19 rows. The table has three columns: 'id', 'pw', and 'name'. The first row of data shows 'hyun' for id, a long hash for pw, and 'gusdud' for name.

id	pw	name
hyun	\$2b\$12\$uqhA127Cr3fX3s3elppibO...	gusdud

# My Page

- **My Group list**  
**: go to the Group Page direct**
- **Bookmark Group**  
**sidebar : Bookmark list**



## My Page

- **User Timetable**

**Event ADD/UPDATE/DELETE**

**Repeat Event**

**Upload Google Calendar**

The screenshot displays a web application interface for a calendar. The main calendar view shows the month of May 2023, with days of the week (SUN, MON, TUE, WED) and dates (30, 1, 2, 3, 7, 8, 9, 10, 14, 15, 16, 17, 21, 22, 23, 24, 28, 29, 30, 31). The date 10 is marked with a red icon and the word 'meeting'. The date 15 is marked with a red icon and the word '수업' (class). The date 22 is marked with a red icon and the word '수업' (class). An 'Add Event' modal form is overlaid on the calendar. The form contains the following fields:

- Event Name:
- Visibility:
- Start Date:
- End Date:
- Repeat:

Below the form, there are two buttons: 'Submit' (purple) and 'Cancel' (gray). Below these buttons, there is a link 'or Fetch schedule via Google Calendar' and a button 'Upload Google Calendar' (orange).



# Group Page

- Upcoming Meeting Info.

- Group Members

Check members' timetable

Request a friend to a member

Invite New Member (only admin)

abc

Admin: aaa

Upcoming Meeting

This is the next meeting info.

	Content
MEETING NAME	Band Practice
WHEN	2023년 4월 25일
WHERE	학생회관
MEMO	Bring your headphones:)

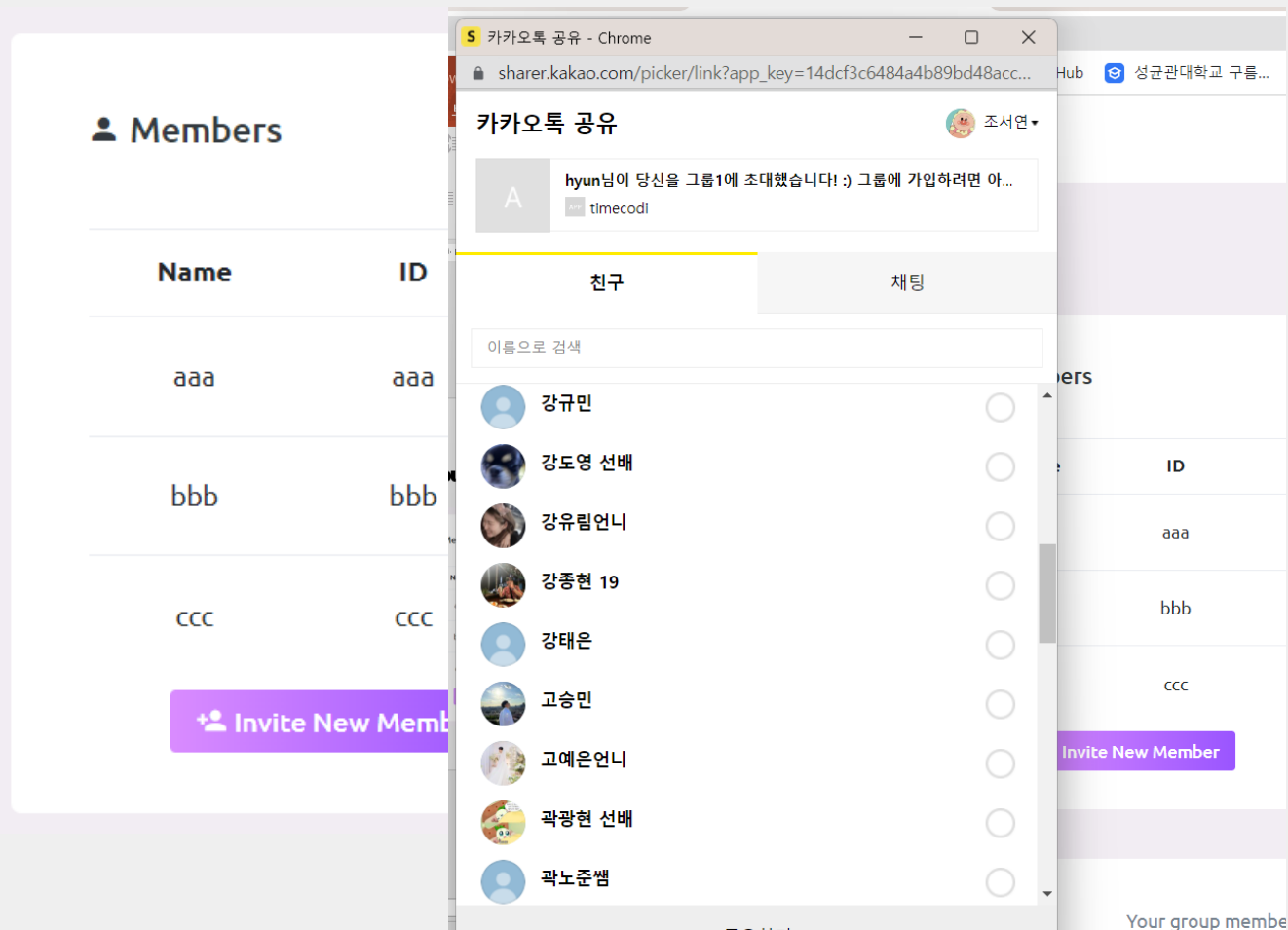
Members

Name	ID	Actions
aaa	aaa	<div><div></div>Friend +</div>
bbb	bbb	<div><div></div>Friend +</div>

Invite New Member

## Invite New Member through KakaoTalk Message

- **Send Invitation message**  
: the info. of the invited group
- **Click the link button**  
: add the group to the invitation list





# Group Timetable & Generate Vote

Easy to see what time  
the group members  
are available in a week.

- **Generate Vote**

Input: take time

Group Calendar

Click the pink box to see available time of the week.

June 6 / 2023

< TODAY >

SUN	MON	TUE	WED	THU	FRI	SAT
28	29	30	31	1	2	3
4 string	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1

Your group members are available at..

1st

2nd

3rd

	SUN	MON	TUE	WED	THU	FRI	SAT
8:00							
9:00							
10:00							
11:00							
12:00							
1:00							
2:00							
3:00							
4:00							
5:00							
6:00							
7:00							
8:00							
9:00							
10:00							
11:00							
12:00							

How long will it take?

0

 hours

00

 minutes

Generate Vote

## Recommendation & Vote Time

- **Recommendation & Vote**

: The member votes

for the time they want

- **Make Meeting**

: The admin confirms

the meeting time

based on voting result

**Vote**

Check the box to vote and submit.

#	Time	<input type="checkbox"/>
1	2023-04-25 14:00 ~ 16:00	<input type="checkbox"/>
2	2023-04-25 14:30 ~ 16:30	<input type="checkbox"/>
3	2023-04-25 15:00 ~ 17:00	<input type="checkbox"/>
4	2023-04-26 13:00 ~ 15:00	<input type="checkbox"/>

**Vote Result**

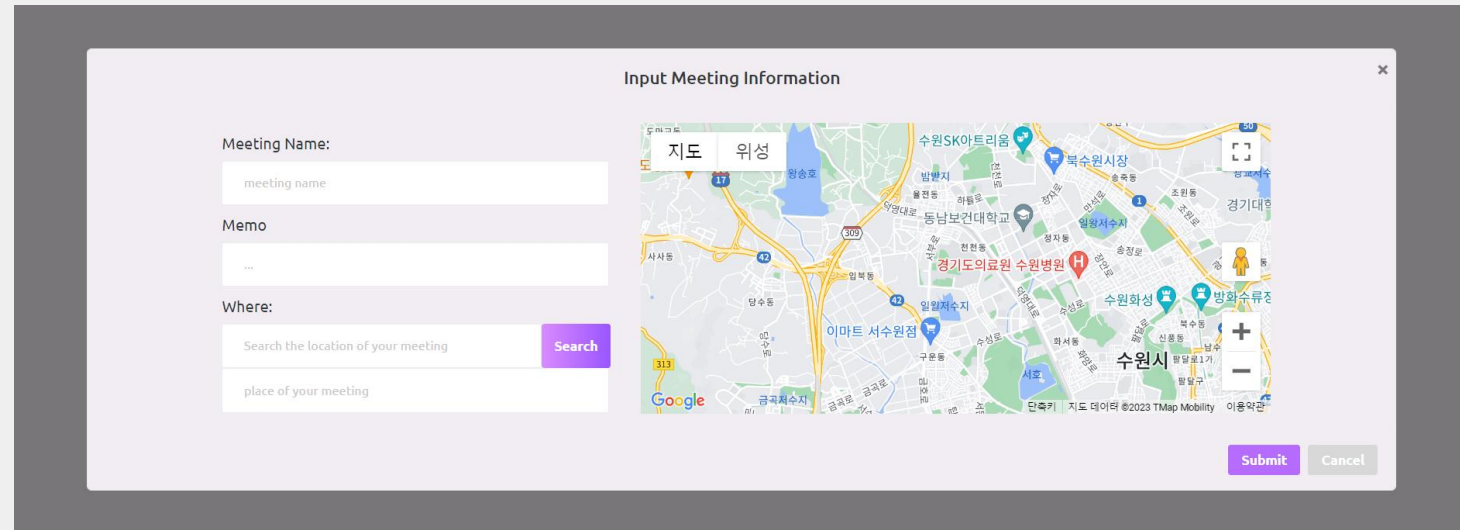
See the vote result!

1	2023-04-25 14:00 ~ 16:00	<input type="checkbox"/> 5	<input type="checkbox"/>
2	2023-04-25 14:30 ~ 16:30	<input type="checkbox"/> 3	<input type="checkbox"/>
2	2023-04-26 14:30 ~ 16:30	<input type="checkbox"/> 3	<input type="checkbox"/>
3	2023-04-25 15:00 ~ 17:00	<input type="checkbox"/> 2	<input type="checkbox"/>

# Make Meeting

- **Meeting Information**
  - **Meeting Name**
  - **Memo**
  - **Location (Search through Google Map)**
  - **Time (Voting time confirmed by admin)**

**One group can create multiple meeting!**



The screenshot displays a web interface for creating a meeting. On the left, a form titled "Input Meeting Information" contains the following fields:

- Meeting Name:** A text input field with the placeholder "meeting name".
- Memo:** A text input field with the placeholder "...".
- Where:** A section with two input fields: "Search the location of your meeting" (with a purple "Search" button) and "place of your meeting".

On the right, a Google Map of Suwon, South Korea, is shown. The map includes labels for "지도" (Map) and "위성" (Satellite), and various location markers such as "수원SK아트리움", "경기대학교", and "수원시". At the bottom right of the map area, there are "Submit" and "Cancel" buttons.





## Group Admin

- **Transfer Admin  
: delegate**
- **Kick out Member**
- **Delete Group**

⚙ Admin

Name	ID	Actions
aaa	aaa	<button>Transfer Admin</button> <button>Kick out</button>
bbb	bbb	<button>Transfer Admin</button> <button>Kick out</button>

⚠ Danger Zone

I hope you know what you are doing.. Next actions are irreversible.  
If you leave the group without transferring the Admin to another member, the member who joined the group first among the remaining people will gain the Admin's authority.

Withdraw from group Delete group

# VS

**Non-admin member  
: only withdraw from group**

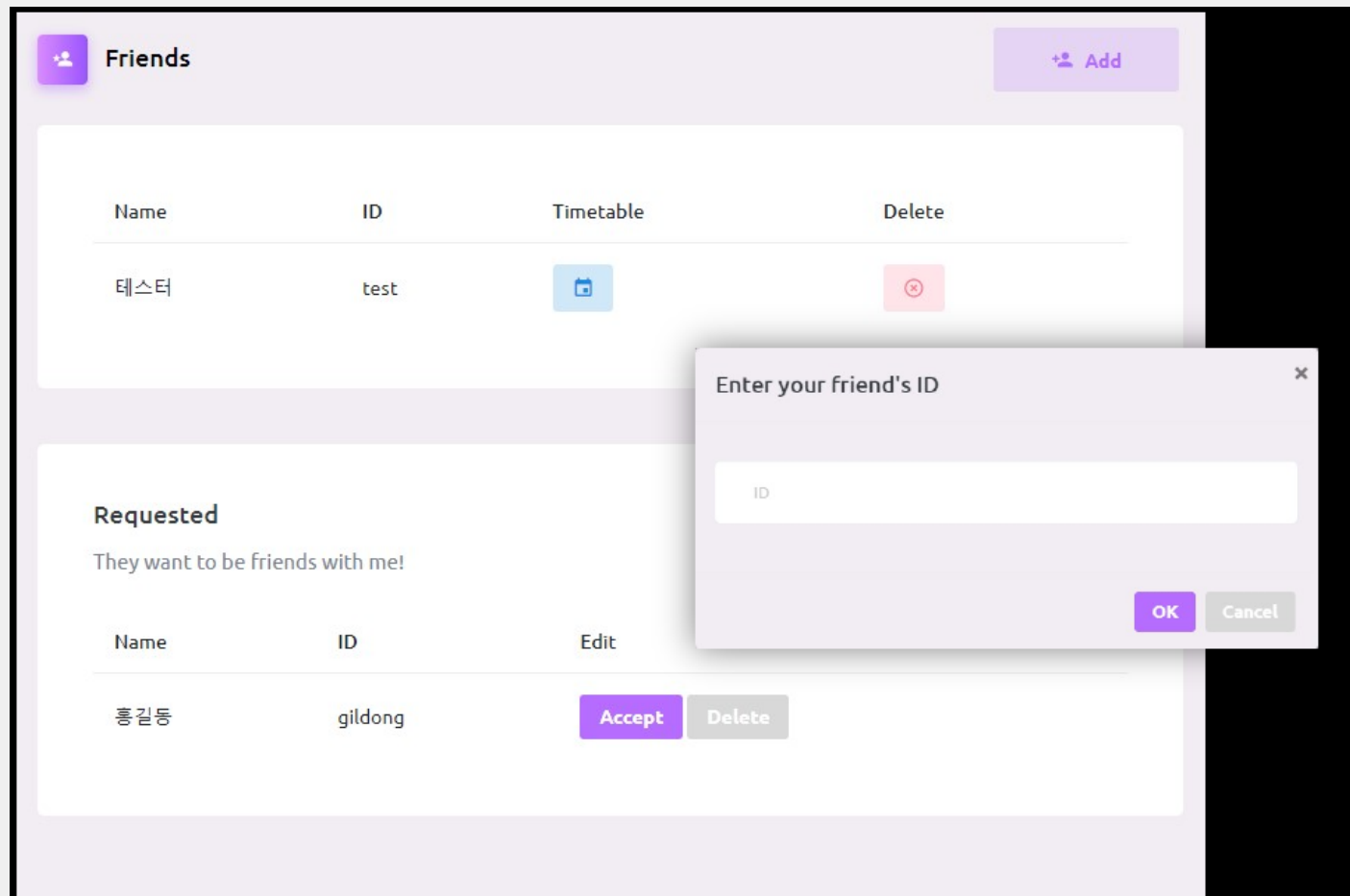
⚠ Danger Zone

I hope you know what you are doing..

Withdraw from group

## Friend Page

- **Friend Request (Enter user ID)**
- **Request Accept/Delete**
- **Check Friend Timetable**





# **05**

## **CHALLENGES**

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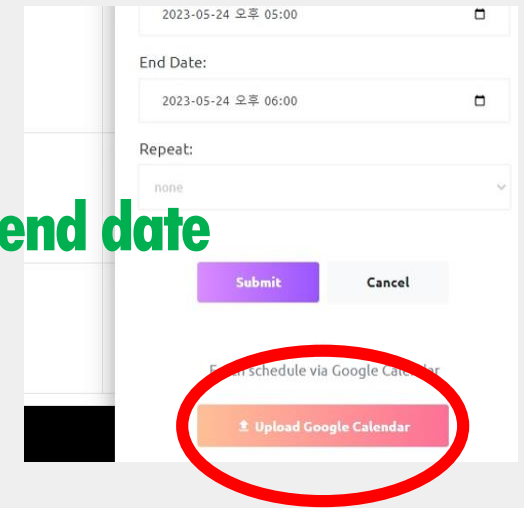
## Challenges

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Save all event information in your Google account in a database at once.

Therefore, having **too much event** results in server **errors**.

**Trial:** When generating repetitive events, you tried to **set an end date**  
so that we could bring up not too many events.



The image shows a screenshot of a Google Calendar event creation interface. At the top, there's a date and time selector set to '2023-05-24 오후 05:00'. Below that is an 'End Date:' field set to '2023-05-24 오후 06:00'. A 'Repeat:' dropdown menu is set to 'none'. There are 'Submit' and 'Cancel' buttons. At the bottom, there's a link 'From schedule via Google Calendar' and a button labeled 'Upload Google Calendar' which is circled in red.

# **06**

## **LIMITATION**

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## Limitation

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- **Constraint**

**When mapping the available time zone in our project,  
we set the time unit to 30 minutes.**

**So, it was impossible to recommend a more accurate meeting time.**

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## Limitation

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- **Assumption**

**If we had mapped with a smaller unit of time, like 10 minutes,  
we could have recommended a more efficient and accurate meeting time!**

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# **07** **EVALUATIONS**

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## Evaluation

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- We have implemented **all the functions** that we had planned in the beginning.
  - In addition, group bookmarks, admin func. and withdraw were implemented.
  - However, it is regrettable that the Usability Testing was not conducted **only our team members** due to the **long development time**, so various feedback was not received.
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# Evaluation

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- **Nevertheless, the functions of our web page implemented are expected to be very useful in real life ! 😊**
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# **08**

## **DEMONSTRATION**

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# Demo Video