

Assignment #2

Schedule Management Website

KAIST
CS360

Service requirements

- User management
 - User registration
 - User authentication
- Personal schedule management
 - Add a new schedule
 - Delete an existing schedule
 - Find schedules whose names start with a given name

Database for Assignment 2

- Database scheme
 - Do not modify scheme

user	<u>user_id</u>	user_password
	cskim	supersecurepassword
	yjlee	1q2w3e4r!
	jjyang	1q2w3e4r2!
	...	

- user_id: id of user (must not be duplicated)
- user_password: password of the user

schedule	code	user_id	name	start	end	dow
	1	cskim	name1	1	3	Tue
	2	yjlee	name2	6	11	Thu
	...					

- code: code of schedule
- user_id: id of the user
- name: name of the schedule
- start: start time of schedule
- end: the value of schedule
- dow: day of the week

Assignment #2

- Q1. Registration page (register.jsp)
 - Ask for an **id and password** for the user using the form.
 - When the user clicks the register button, the client requests user registration to the server
 - The server inserts a user record into the 'user' table in the database
 - If the registration is successful, redirect the client to the login page (login.jsp)
 - If the registration failed (e.g., user id duplicated), redirect the client to the register page (register.jsp)
 - Please notice the following rules
 - The name of the registration page must be 'register.jsp'
 - Make the server not store **plaintext** passwords in the database
 - Hint
 - Consider 'SHA1' SQL function

Assignment #2

- Q2. Login page (login.jsp)
 - Ask for an **id and password** for the user using the form.
 - When a user clicks the login button, the client requests login into the server
 - The server compares the received data with the records in the user table
 - If the login is successful, redirect the client to the schedule management page (index.jsp)
 - If the login failed(e.g., no user id, incorrect password), redirect the client to the login page (login.jsp)
 - Please notice the following rules
 - The name of the login page must be 'login.jsp'.
 - You must implement this function using session
 - Hint
 - Consider 'session.setAttribute' and 'session.getAttribute' JSP function

Assignment #2

- Q1 and Q2 Example


registration
failed

Register page

ID:

Password:

registration
success




login
failed

Login page

ID:

Password:

[Register](#)


login
success

[user1 Logout](#)

Schedule

Search:

Code	Name	Start time	End time	Day of the Week
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Form

Name

Start time

End time

Day of the week

Assignment #2

- Q3 ~ 5. Schedule management page (index.jsp)
 - The user must be logged in from the 'login.jsp' page to use 'index.jsp' page
 - If the client access 'index.jsp' page without being logged in, redirect the client to the 'login.jsp' page
 - When the index.jsp page loads, it shows all the schedules the user has added
 - On this page, the user can delete or search for only user-added schedules
 - This means the user can't see or delete schedules added by other users
 - Users add, delete, and search for schedules using the user id they used to log in
 - The user id used to log in is utilized to identify schedules added by the user
 - This means that when a user adds a schedule to the database schedule table, the user_id column should store the user id that the user used to log in.

Assignment #2

- Q3. Schedule management page (index.jsp) – add a new schedule
 - The client receives the name, start time, end time, and day of the week of the schedule using a form
 - The server inserts the schedule data which the client sends into the 'schedule' table in the database
 - If an addition is successful, the schedule is displayed in the HTML schedule table of the page
 - The code for the schedule displayed in the HTML schedule table must be identical to the one stored in the database
 - These codes are globally serialized
 - If the addition is failed (e.g., time overlapping), do nothing
- Please notice the following rules
 - If you refresh the 'index.jsp' page to modify the html table, the score will be deducted
 - You must utilize **Ajax** to communicate with the server
 - The user should still be able to interact with the webpage after clicking the submit button to addition
- Hint
 - Consider the '\$.post' jQuery function
 - Utilize the 'append_tr()' JavaScript function in the 'index.jsp' to append schedule information on the HTML table

Assignment #2

- Example for Q3 (In case of success)

Schedule

Search:

Code	Name	Start time	End time	Day of the Week
1	Name1	3:00	5:00	Sun
2	Name2	6:00	8:00	Sun

Form

Name

Start time

End time

Day of the week

clicked

1. if the submit button is clicked,
send the form data to the server using ajax



sche_insert.jsp

2. Response addition results to the client
(code of inserted schedule)

3. if addition is successful,
add schedule information
to the HTML table using
JavaScript

Schedule

Search:

Code	Name	Start time	End time	Day of the Week
1	Name1	3:00	5:00	Sun
2	Name2	6:00	8:00	Sun
3	Name3	3:00	5:00	Tue

Assignment #2

- Example for Q3 (In case of failure)

Schedule

Search:

Code	Name	Start time	End time	Day of the Week
1	Name1	3:00	5:00	Sun
2	Name2	6:00	8:00	Sun

Form

Name

Start time

End time

Day of the week

Time overlapped
clicked

1. if the submit button is clicked,
send the form data to the server using ajax



sche_insert.jsp

2. Response addition results to the client
(Insertion is failed)



3. The addition is failed,
do nothing

Schedule

Search:

Code	Name	Start time	End time	Day of the Week
1	Name1	3:00	5:00	Sun
2	Name2	6:00	8:00	Sun

Assignment #2

- Q4. Schedule management page (index.jsp) – delete an existing schedule
 - If the user clicks the code of a schedule in the HTML schedule table, it is deleted
 - The client deletes the information from the HTML schedule table and sends a deletion request to the server
 - The server deletes the schedule from the database
- Please notice the following rules
 - If you refresh the 'index.jsp' page to modify the html table, the score will be deducted
 - You must utilize **Ajax** to communicate with the server
 - The user should still be able to interact with the webpage after clicking the code to deletion
- Hint
 - Consider the '\$.post' jQuery function
 - Add the 'onclick' event handler to the code table cell of the schedule
 - Utilize 'delete_tr()', 'clear_table()' javascript function to delete schedule information from table

Assignment #2

- Example for Q4

[user1 Logout](#)

Schedule

Search:

Code	Name	Start time	End time	Day of the Week
4	Name1	3:00	5:00	Sun
5	Name2	4:00	8:00	Mon

clicked
Form

Name

Start time

End time

Day of the week ▾

1. if the code cell in the table is clicked, send a deletion request to the server using AJAX



sche_delete.jsp

2. delete schedule information from the HTML table using JavaScript



Schedule

Search:

Code	Name	Start time	End time	Day of the Week
5	Name2	4:00	8:00	Mon

Assignment #2

- Q5. Schedule management page (index.jsp) – find existing schedules
 - If the user change search term of the search box, the content of the HTML schedule table must change
 - The names of the schedules in the HTML schedule table must start with the search term
 - The schedule should appear in ascending order of code
 - Please notice the following rules
 - If you refresh the 'index.jsp' page to modify the html table, the score will be deducted
 - You must utilize **Ajax** to communicate with the server
 - The user should still be able to interact with the webpage after changing search term in the search box to find
 - The contents of the table should change whenever the user changes search term in the search box
 - Hint
 - Consider the '\$.post' jQuery function
 - Consider the 'change' jQuery function

Assignment #2

- Example for Q5

Schedule

Search:

Code	Name	Start time	End time	Day of the Week
8	Name1	1:00	3:00	Sun
9	Name12	1:00	3:00	Tue
11	Name123	1:00	3:00	Fri



1. Type search term in the search box

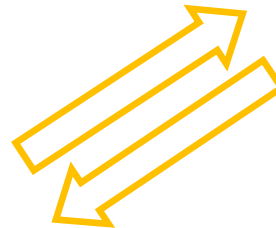
Schedule

Search: **Changed**

Code	Name	Start time	End time	Day of the Week
8	Name1	1:00	3:00	Sun
9	Name12	1:00	3:00	Tue
11	Name123	1:00	3:00	Fri

2. Send search term to the server and get schedules whose names start with search term

sche_select.jsp



3. Render results on the html table

Schedule

Search:

Code	Name	Start time	End time	Day of the Week
9	Name12	1:00	3:00	Tue
11	Name123	1:00	3:00	Fri

Rules

- Due
 - 2023. 05. 24. (~23:59) (Do not accept late submission)
- Submission Standard
 - You should submit a file named [\[Student ID\].zip](#) which consists of [.jsp](#) files **only**
 - Upload the [.zip](#) file to the course homepage
- Evaluation
 - Do not cheat or plagiarize others. Both will get no points.
- Additional Notices
 - You will be given a skeleton code for the assignment
 - You can initialize database using [db_init.jsp](#) page
 - Please test your codes using [test_mycode.jsp](#) page