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	user_id	user_password
	cskim	supersecurepassword
	yjlee	1q2w3e4r!
	jyjang	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

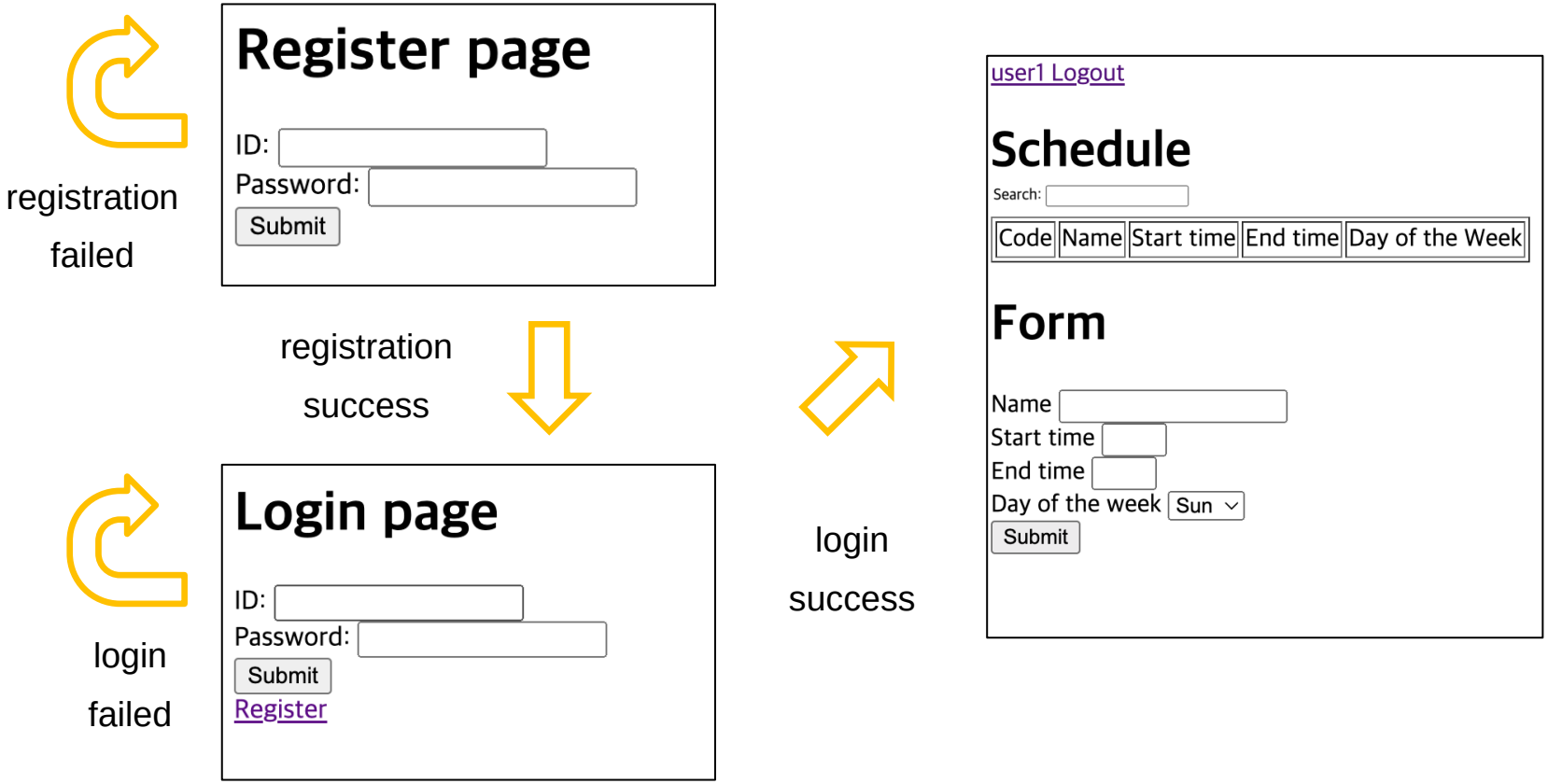
- Q1. User registration (register.jsp)
  - Ask for an **id and password** for the user using the form.
    - When the user clicks the register button, the client requests user registration to the server
    - The server inserts a user record into the ‘user’ table in the database
    - If the registration 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 browser cookies and session
  - Hint
    - Consider ‘session.setAttribute’ and ‘session.getAttribute’ JSP function

Assignment #2

- Q1 and Q2 Example



Assignment #2

- Q3. Schedule management (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., There is time overlapped schedule in the database), do nothing

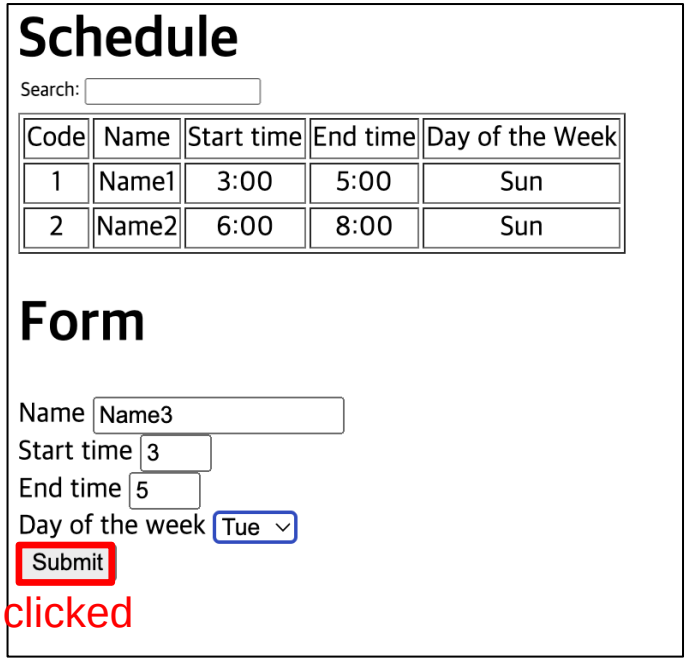
  - Please notice the following rules
    - If you refresh the ‘index.jsp’ page to modify the html table, the score will be deducted
      - You must utilize **Ajax** to communicate with the server
      - The user should still be able to interact with the webpage after clicking the submit button to addition

    - Each user has their own schedule table

  - 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)

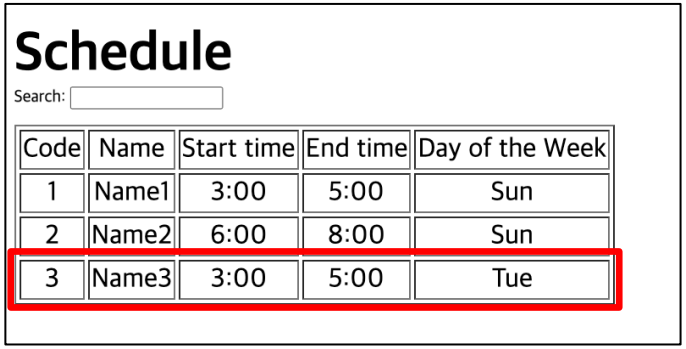


1. if the submit button is clicked,
send the form data to the server using ajax

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

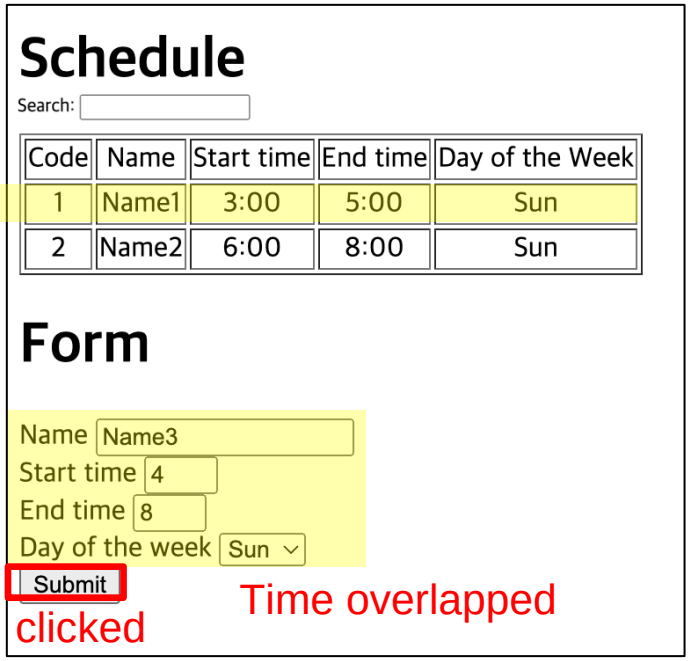
sche_insert.jsp

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



Assignment #2

- Example for Q3 (In case of failure)

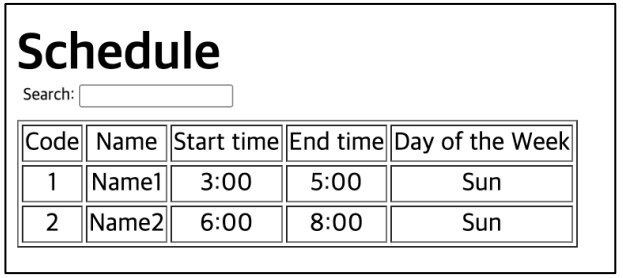


1. if the submit button is clicked,
send the form data to the server using ajax

sche_insert.jsp

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

3. The addition is failed,
do nothing



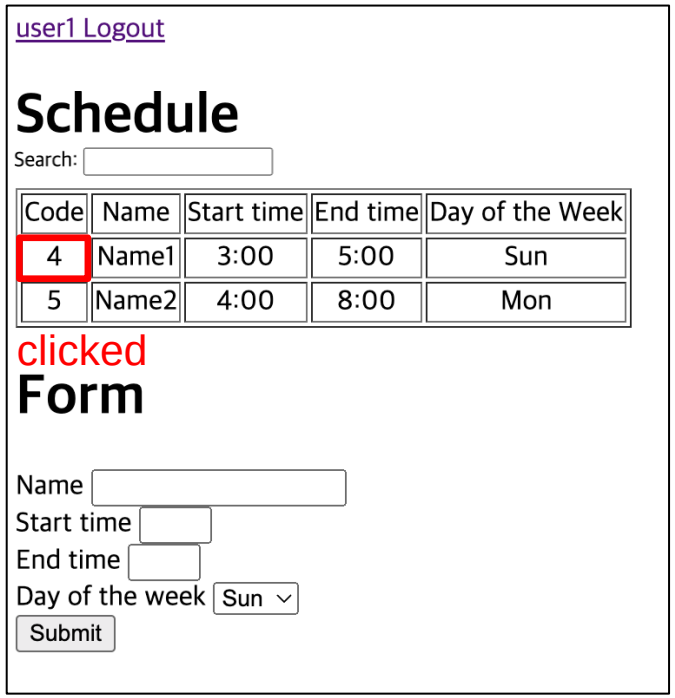
Assignment #2

- 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 submit button 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

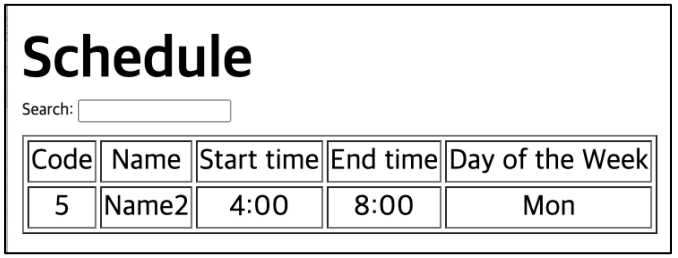
- Example for Q4



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



Assignment #2

- Q5. Schedule management page (index.jsp) – find existing schedules
  - If the user type text in the ‘search’ input box, the content of the HTML schedule table must change
    - The names of the schedules in the HTML schedule table must start with the typed text.
    - 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 typing data in the input box to find
    - The contents of the table should change whenever the user changes what they type in the input 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

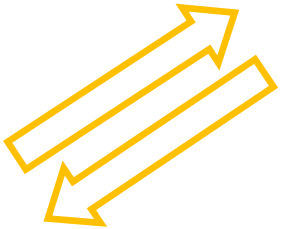
1. Type text in the search box

Schedule

Search: Name12 Typed

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 typed text to the server and get schedules whose names start with typed text



sche_select.jsp

3. Render results on the html table

Schedule

Search: Name12

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