

Student: Seo Sangwon / Jeong Yohan

Student ID: 2019314588 / 2019312308

Course Section Number: SWE3048-42

# **WEB PROJECT REPORT [WINJOY]**

# 1. Introduction

The website is a valuable resource for those interested in winter sports, particularly skiing and snowboarding. It caters to beginners by providing detailed instructions and tips on how to engage in these activities. Furthermore, the site offers a section where visitors can explore and purchase the necessary equipment for skiing and snowboarding. there is a map that displays the locations of ski resorts and ski equipment stores.

The overall aim of the site is to enhance the winter experience, equipping enthusiasts with the knowledge, equipment, and location details needed to thoroughly enjoy skiing and snowboarding during the winter season.

## 2. Page

### ·Main banner section



#### 1. Dynamic Background Image:

- a. Each time the main page is reloaded, the background image changes, adding a dynamic and engaging visual element.

#### 2. Navigation Bar:

- a. Located at the top of the page.
- b. Includes three main functions, each with its own dropdown menu. These menus are revealed when their corresponding function is clicked, indicated by an arrow changing direction.
- c. The background color of the navigation bar changes to white when scrolling down.

#### 3. Logo Functionality:

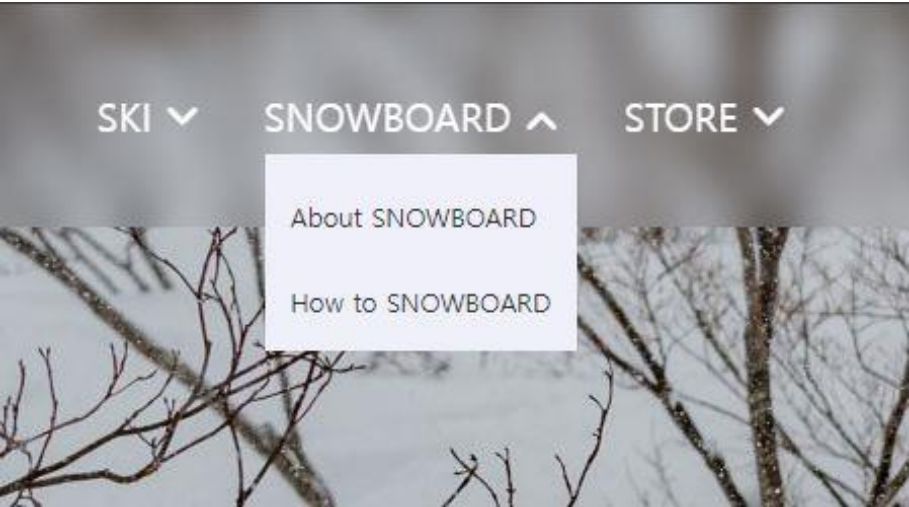
- a. The "WINJOY" logo is positioned in the middle of the navigation bar.
- b. Clicking the logo navigates the user back to the main page.

#### 4. Login and Registration:

- a. The navigation bar features buttons for LOGIN and SIGNUP, facilitating user access and account management.



1a

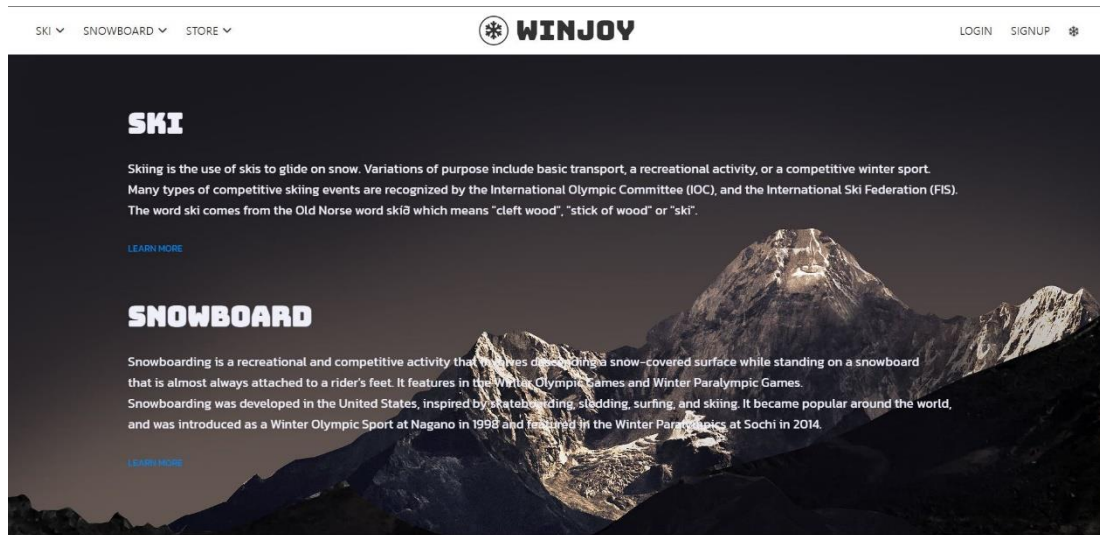


2b



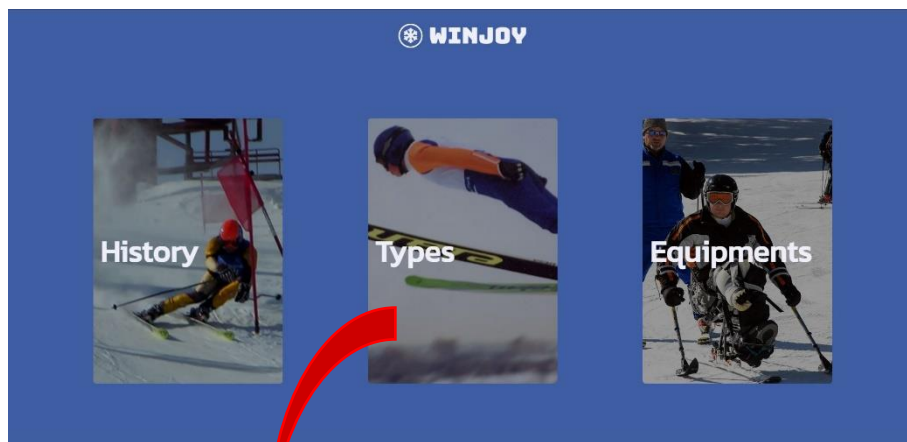
2c

## ·Introduction section



1. The Introduction section briefly outlines skiing and snowboarding, offering a basic overview.
2. A "Learn more" link is available for users to access more detailed information on these winter sports.
3. When users hover over a card on the website, the brightness of the card increases, enhancing its visual appeal and drawing attention to its content.

<When you click “Learn more” link button>



2

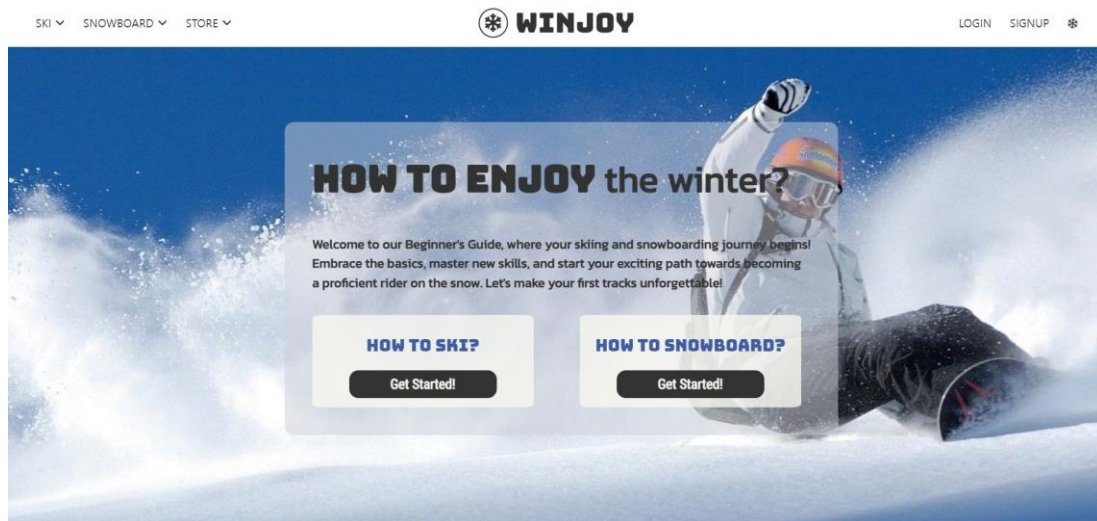
<When the card is hovered>



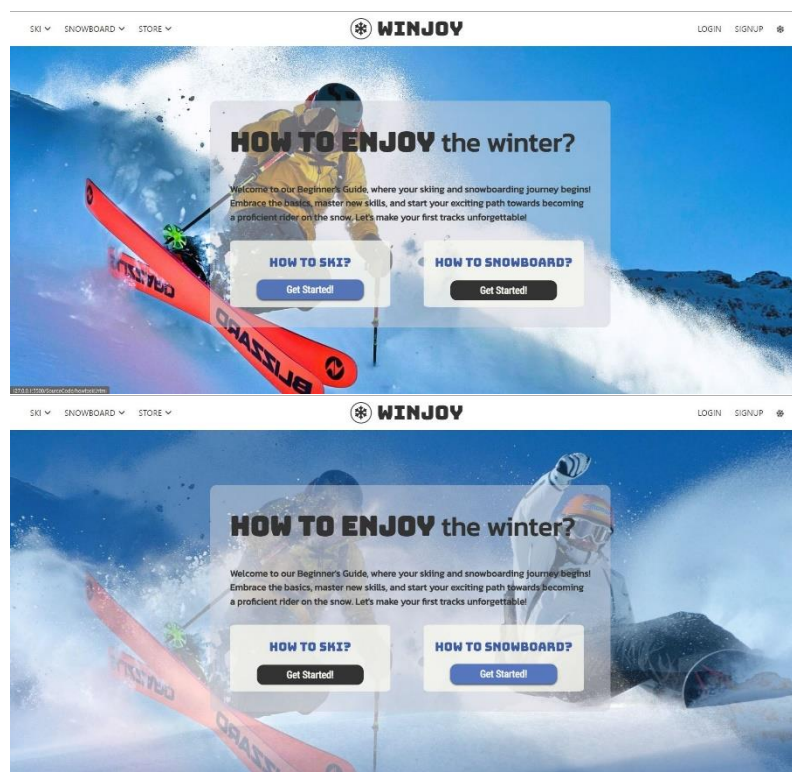
3



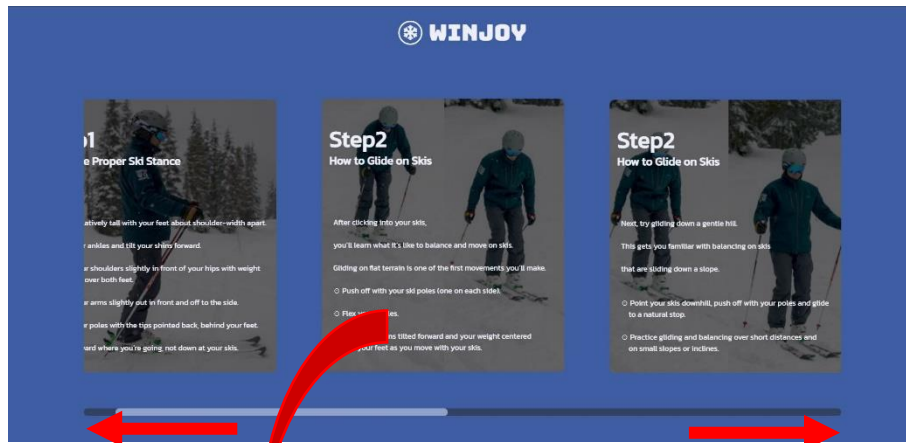
## ·Education section



1. The Education section of the website directs users to a page specifically designed for beginners, offering step-by-step instruction in skiing and snowboarding.
2. An interactive element is included where the background image changes when the mouse hovers over the button, enhancing user engagement and visual interest.
3. In the card section of the website, users can learn how to ski and snowboard step by step. This section is designed to allow left and right scrolling, enabling users to navigate through the various steps or stages of learning in a sequential and interactive manner.
4. When users hover over a card on the website, the brightness of the card increases, enhancing its visual appeal and drawing attention to its content.

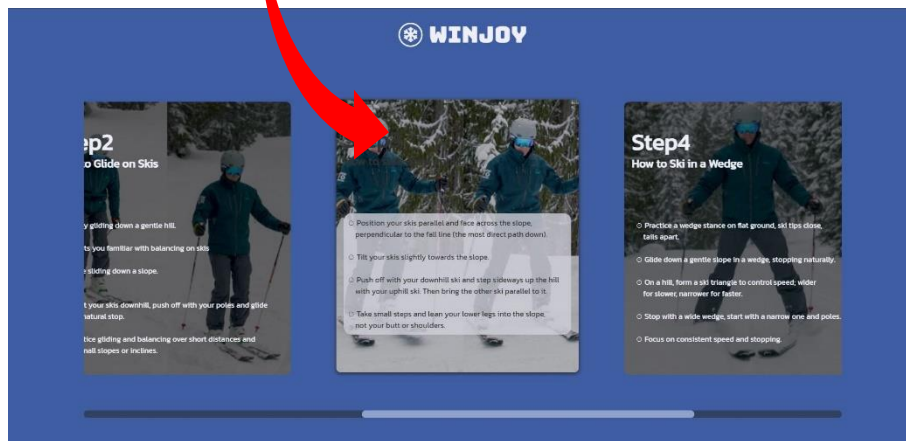


<When you click “Get Started” button>



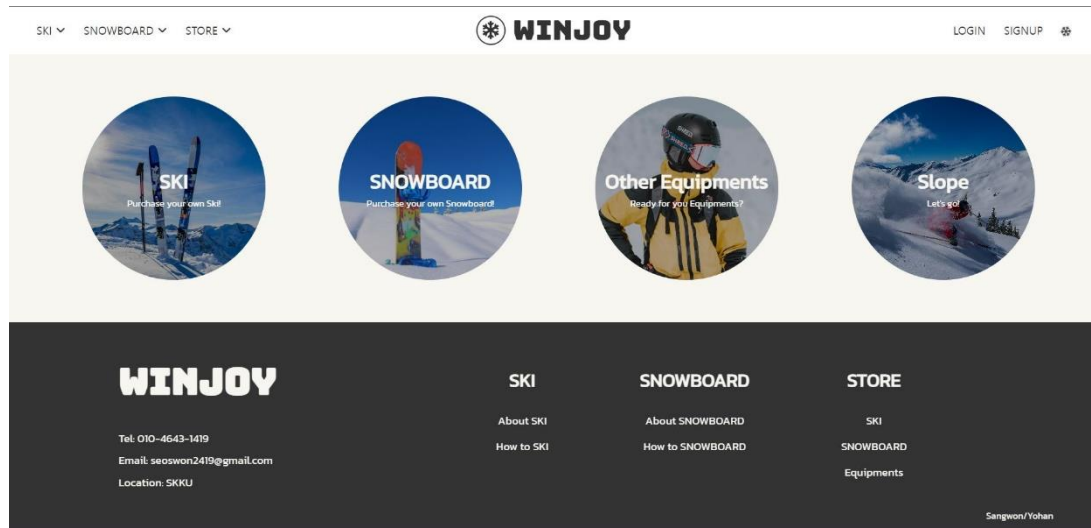
3

<When the card is hovered>



4

## ·Other Link / Map / footer section



### 1. Other Link Section:

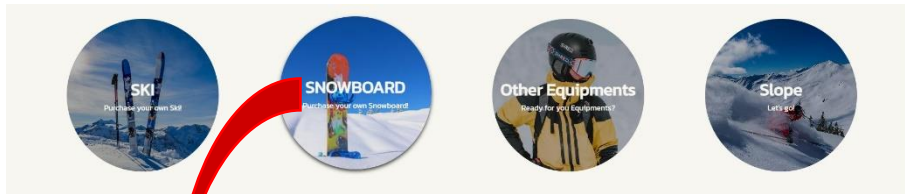
- a. This area of the website features interactive cards which direct users to specific pages about skiing and snowboarding. Each card provides access to detailed information about different aspects of these winter sports.
- b. When users hover over a card on the website, the brightness of the card increases, enhancing its visual appeal and drawing attention to its content.

### 2. Map Section:

- a. Utilizing the Google Maps API, this page displays a map pinpointing ski-related locations. It offers a visual guide to places of interest for skiing enthusiasts, such as ski resorts and equipment shops.
- b. If Current Location button is clicked, GPS information is updated by real current information.
- c. When users click on a marker on the map, the name of the location is displayed. Clicking on the location's name opens a new page with detailed Google Maps search results for that place.

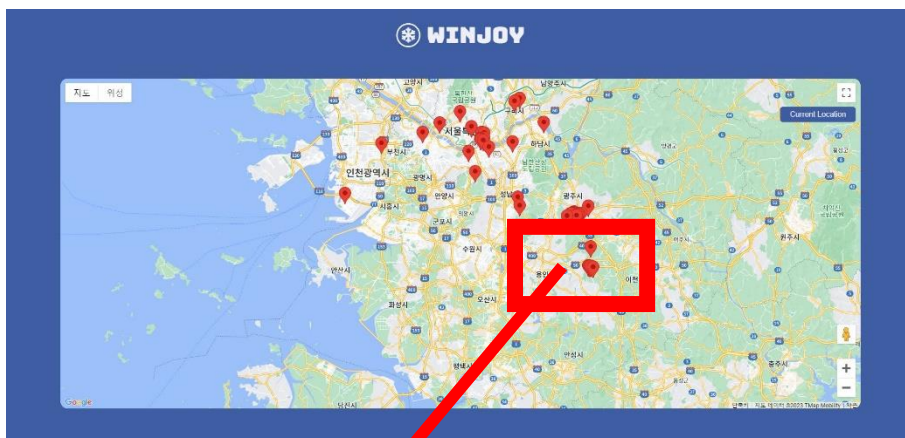
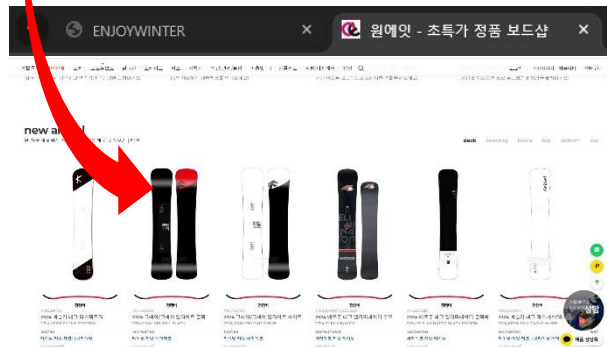
### 3. Footer Section:

- a. The footer provides two key pieces of information. Firstly, it includes details about the creator of the website.
- b. Secondly, it contains shortcuts that facilitate easy navigation to various pages on the website, enhancing the user experience by allowing quick access to different sections.



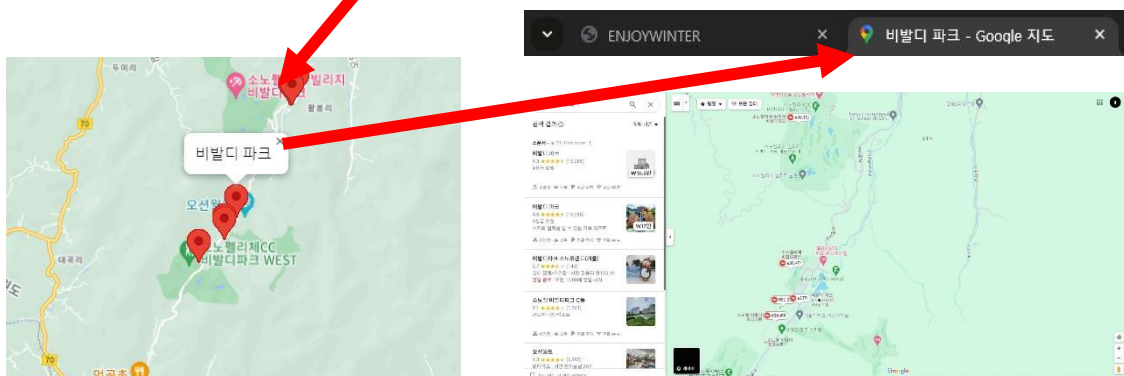
1b

<When you click the card>



2a

<When you click the name card>



2c



### 3. Signup / Login

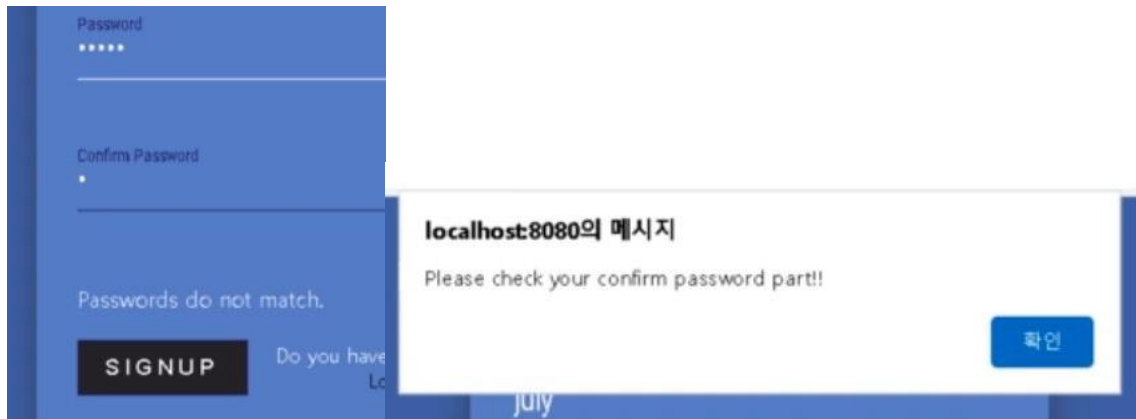
#### · How to Signup / Login



<When user click the singup button>

The image shows a 'SIGN UP' form on a blue background. The form is a light blue rectangle with the title 'SIGN UP' at the top. It contains several input fields: 'Name', 'Email', 'Phone number', 'ID', 'Password', and 'Confirm Password'. At the bottom of the form, there is a 'SIGNUP' button and a link that says 'Do you have an account ? Login'.

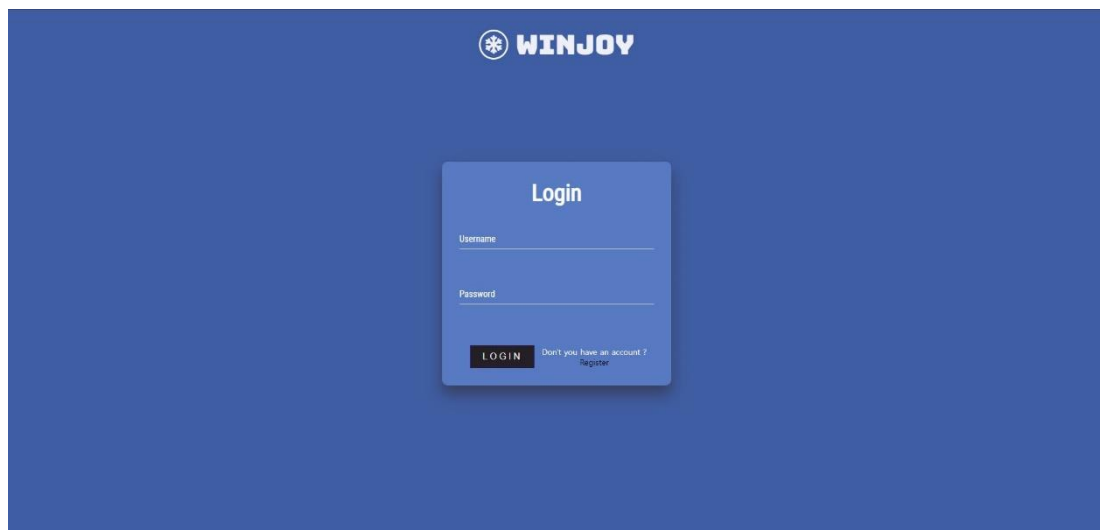
1. Check no blank form when SIGNUP clicked: If the user doesn't fill all form, user can't click the button.
2. Check password and confirm password: If you clicked SIGNUP button, checks the password and confirm the password is the same. If they don't match, 'Passwords do not match' message appears. If they match, 'Passwords match' message appears.
3. Move to the login page: When the user clicks on the "Login" button, the user goes to the login page.
4. If a signup is successful or unsuccessful, an appropriate notification will appear for each situation.
5. If the signup is successful, it automatically moves to the login screen
6. Check email & password: If email and password information does'nt match, 'ID and password do not match. Please try again.' will appear.
7. Success Login: If the user success in login, the user can move to the main page, and the words are changed to 'Welcome <username>', 'LOGOUT' button.



2



4



6



7

## • Database - MYSQL

### Advantages

1. Security: Offers robust security features. You can implement strong security measures for sensitive data like login credentials.
2. Relational Structure: Ideal if the login information is part of a larger, structured, relational database model.
3. Control: Provides more control over the database, allowing for custom configurations and optimizations.

**We use MYSQL(same with the JSP lecture) in Eclipse.**

The screenshot displays the MySQL Workbench interface. The top section shows a 'Result Grid' with a query result. The query is `SELECT * FROM websitedb.users;`. The result grid contains the following data:

id	password	email	phone_number	name
choju0103	jyh0103	choju@daum.net	01012345678	Juhyun
keysella	qwer0129	keysella@naver.com	01043214321	Unyeong
sagwon5123	sangwon1234	sangwon@skku.edu	01012341234	Sangwon
wsxc1226	jyh1226	wsxc1226@naver.com	01077004802	Yohan
NULL	NULL	NULL	NULL	NULL

The bottom section shows the MySQL Workbench interface with the 'users' table selected in the 'SCHEMAS' pane. The 'users' table is highlighted, and the 'Columns' tab is active. The 'Columns' tab shows the following columns:

id	password	email	phone_number	name
choju0103	jyh0103	choju@daum.net	01012345678	Juhyun
keysella	qwer0129	keysella@naver.com	01043214321	Unyeong
sagwon5123	sangwon1234	sangwon@skku.edu	01012341234	Sangwon
wsxc1226	jyh1226	wsxc1226@naver.com	01077004802	Yohan
NULL	NULL	NULL	NULL	NULL

## 4. About Our Final Project

### What Sangwon Did:

#### 1. Complete Page Creation:

Sangwon developed all the pages for the project, handling both the structure and aesthetics.

#### 2. UI Design and Front-end Development:

Focused on front-end development, he decorated the entire User Interface using HTML and CSS.

#### 3. Page/Navigation Behavior Development:

Managed the development of page and navigation behavior with JavaScript, especially through main.js and map.js, contributing to the backend.

#### 4. Google Maps Integration:

Implemented the Google Maps JavaScript API to add interactive map functionality to the application.

### What Yohan Did:

#### 1. Server and Database Setup:

Yohan took charge of creating the server and setting up the database, concentrating on the backend, particularly for the login system.

#### 2. Conversion Sangwon's HTML to JSP and Code Modification:

Converted the HTML files provided by Sangwon into JSP (Java Server Pages), inserting Java code and making necessary code modifications.

#### 3. Authentication Feature Development:

Focused on developing the sign-in and sign-up features, working with files like aftersignup.jsp and signup.js. Also handled aspects related to login, logout, signup, and welcoming users in the main.js file.

Through this team project, we gained significant experience in building web pages and linking them to servers. The cooperation within our team was excellent, making the project enjoyable and educational. We'd like to thank our professor for an informative semester on web page development, as these lectures greatly contributed to our learning in this project.