USER CASE FOR FSI-23 PROJECT

Title	UC-01 - Users can explore landing page
Description	- Landing page is the first page a user will see when coming to our website
Dependencies	- none
Preconditions	❖ none ❖ The website is accessible and functioning properly.
Sequence	❖ Once on the landing page, users can scroll to read a little introduction to our page.
Postconditions	❖ Upon successful completion of the UC-01, the user will be able to scroll the landing page to read a little bit about the website. ❖
Exceptions	★ In case of technical issues or server errors, users will be redirected to a custom 404 or 500 error pages.
Notes	➔ The website aims to provide a user-friendly experience for non-native korean speakers ➔ There is a email newsletter function (under construction) at the bottom of the page.

Title	UC-02 - Browse or Search for doctors
Description	- Users can browse for doctors using two drop down menus : City Box (Seoul and Busan) and Specialization Box (doctor's expertise).

Dependencies	- none
Preconditions	❖ none ❖ The website is accessible and functioning properly. ❖ Accessible through the search tab in the navbar
Sequence	❖ Upon arrival to the search page, the information for the top three doctors will appear based on their high rating. ❖ The user can use the search bar near the top of the page to choose between Seoul and Busan from the first dropdown menu. ❖ The user can then use the drop down menu to select what type of medical services the user needs. ❖ User presses the "Search" button. ❖ The page displays doctors that meet the above criteria with available dates and times for appointments. ❖ Each listing includes hospital name, doctor, hospital address . ❖ Users can click a listing to expand the card on the right hand side with more details about the selected doctor if the user needs more information.
Postconditions	❖ Upon successful completion of the UC-02, the Search page prior to a search being performed will show the 3 top doctors based on their ratings. ❖ If the user performs a search, the doctors card on the left will be populated with doctors most relevant to the search query. ❖ The card on the right will only be populated with the doctors details once a card on the left has been clicked - it will show which card is clicked/ active with the borders changing to a matching color.
Exceptions	★ In case of technical issues or server errors, users will be redirected to a custom 404 or 500 error pages. ★ If there are no matches in the users selected filters, a message will be displayed indicating to provide the city and expertise when searching.
Notes	➔ The website aims to provide a user-friendly experience for non-native Korean speakers.

Title	UC-03 - Register a brand new account
Description	User register to create a brand new account
Dependencies	- Access to the site's registration page - Backend system for user data / information storage (save to a database)
Preconditions	❖ The system is operational and accessible ❖ User has access to the registration page

Sequence	★ User navigates to the registration page
	★ User enters required details such as username, email, password and other additional information
	★ User submits registration form
	★ In the backend, the information submitted by the user will be saved to the database after the registration is finished.
	★ Backend will check if username or email is already registered
	    ○ this will redirect the user back to register page
	    ○ There will also be a message indicating the username and/or email is taken.
	    ○ There will be some small validation to make sure the user will input correct information. For ex)
	       ■ The length of email, first name, last name or username should be greater than 2 characters
	★ When user registered, password will be hashed
	★ Message will be displayed after the account is registered.

Postconditions	→ Once the user successfully opens the Log In / Registration page, a registration form will be displayed on the right, while a log in form will be displayed on the right. Directly under the log in submit button is a link to reset the users password if needed. → A successful registration will prompt a flash message that confirms to the user that the account registration is complete. → User can now go to login page to login to their account

Expectations	➢ Users can successfully register for an account. ➢ Error handling / message is implemented for invalid data input ➢ User data should be successfully save to the database
Notes	- Passwords should be securely hashed and stored in the database

Title	UC-04 - Login to account
Description	Users login to the system using their account and credentials
Dependencies	➢ Access to the system's login interface ➢ User already register and created an account ➢ Backend system for user authentication ➢ Database for user information when account is created
Preconditions	❖ The system is operational and accessible ❖ User credentials (username/email and password) are known

Sequence	★ User navigates to login page
	★ User enters their username / email and password.
	★ User submits the login form.
	★ System verifies the credentials
	    ○ If credentials are valid, the user is logged in, and they will be redirected to a dashboard.
	    ○ If credentials are invalid, an error message is displayed. The user will be prompted to re-enter their credentials
	    ○

Postconditions	➔ User is logged into the system and redirected to the user dashboard / page. ➔ User session is active.
Expectations	● User can successfully access the system with correct credentials ● Error handling / message is in place for invalid credentials.
Notes	- Passwords should be securely hashed and stored

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Title	UC-05 - User Logout
Description	- User ending their session and logging out of the system
Dependencies	- Access to the system's logout functionality
Preconditions	❖ User must have an account ❖ User must be logged in the system ➢ If user no logged in, user will be redirected to the login page
Sequence	❖ Go to the user account ❖ User initialize the logout process ➢ By clicking the logout button ❖ System clears out user's session ❖ Redirect User back to either Login or Home page
Postconditions	➔ User is logged out of the system ➔ User session is terminated
Exceptions	➢ User can successfully end their session ➢ User can log out of the system
Notes	❖ Confirm logout action (optional)

Title	UC-06 - Password Reset
Description	Users can reset their password in a different page using username and old password
Dependencies	➢ UC-04 (Register) and UC-05(Log In) ➢ Access to the system's reset password page ➢ User already registered an account and have login access ➢ Backend system for resetting password ➢ Database for user information is available and accessible

Preconditions	❖ The system is operational and accessible ❖ User credentials (username and (old) password) are known

Sequence	★ User navigates to reset password page
	★ User enters their username, old password and new password
	★ User submits the reset password form
	★ System verifies the credentials
	    ○ If credentials are valid, the system will update the old password and replace it with the new password
	    ○ After, they will be redirected back to the login page for sign in.
	    ○ If credentials are invalid or already exist(username, old password), an error message is displayed. The user will be prompted to re-enter their credentials(username, old password)
	    ○ New password replace old password and will be save to the database

Postconditions	➜ User is logged into the system and redirected to the user dashboard / page. ➜ User old password will be replaced by new password ➜ User will be able to log in using the new password
Expectations	● User can successfully access the system with correct credentials ● Error handling / message is in place for invalid credentials. ● Passwords should be securely hashed again and stored back to the database
Notes	- Just a simple reset password feature by comparing the username to the database and replacing the older password inputted in the form with a newer hashed password - No special modules has been used or even tokens - Did not implement sending users an email about their password being changed or reset.

Title	UC-06 - Store data in the database
Description	This user case involves storing and managing incoming data or information from our application or website within the database.
Dependencies	- Access to the system's logout functionality - Database must be available and functional - Properly defined data schema to structure the stored information - Data schema / Database schema (organization of data on how the database is constructed)
Preconditions	❖ Database system is accessible and ready to receive incoming data
Sequence	➔ The generated data is formatted according to the predefined schema compatible with the database. ➔ The formatted data is stored in the appropriate tables or collections within the database. ➔ Once data is stored, it can be managed, queried, updated, or deleted as necessary through the python backend or database management tool (phpmyadmin)
Postconditions	➔ The incoming data is successfully stored in the database ➔ Stored data is available for retrieval and analysis
Exceptions	
Notes	

Title	UC-07 Booking an appointment (Not fully implemented / Halfway there)
Description	- This outlines the process of booking and appointment
Dependencies	- Availability of the booking system - UC

Preconditions	❖ Users can access the booking page ❖ User is logged in to their account (required)
Sequence	➔ Users can access the booking page ➔ Users must log in to their account to access booking page (required) ➔ User receives a confirmation email or notification with appointment details(just a simple custom email)
Postconditions	★ User receives confirmation of the appointment ★ Appointment is successfully booked (Not implemented yet, maybe in the future)
Exceptions	➢ If user is logged out of their account during the booking process, redirect them to login page again ➢ If system experience technical issue, users may not be able to complete the booking process
Notes	● We cannot book an official appointment with a real doctor and user yet(maybe in the future) ● Booking page is available for display as a reference ● We can only do simple action like sending a custom message or email to a user if they have inputted a legitimate email address in the booking form

Title	UC-08 - User Dashboard
Description	Checking details about the user's account and booked appointments.
Dependencies	➢ UC-04 (Register) - User has an account ➢ UC-05(Log In) - User has logged in
Preconditions	❖ User needs to have an account ❖ User needs to be logged in.

Sequence	❖ User will click on the button labeled "Account" that is located in the navigation bar. ❖ The user will need to either register and/or log in. ❖ Once the user has logged into their account, they will land at the user dashboard page.
Postconditions	● Upon successful completion of the UC-08 (User Dashboard) use case, the user is navigated to the user dashboard interface. ● The user dashboard contains two buttons on the side bar: "Personal Details" and "My Bookings" (sample-data). ● The user can toggle between different information categories using buttons provided in the left sidebar.
Exceptions	❖ If the user is not logged in, they cannot access the user dashboard, and an error message should be displayed prompting them to log in. ❖ If the user tries to access the user dashboard through unauthorized means (e.g., by modifying the URL), access should be denied, and an error message should be displayed.
Notes	- Future plans for the user to be able to edit their personal details (eg. maybe phone number change/ email change/ new medical condition etc). - Also hopefully we can add in a way for the user to edit(or cancel) a booked appointment. - The bookings section will have details of the users actual booked appointments.

Title	UC-09 - Admin Dashboard
Description	Checking the data logged into the website.
Dependencies	➢ UC-04 (Register) ➢ UC-05(Log In) ➢ User is an Admin / users account has Admin status

Preconditions	❖ User needs to be logged in. ❖ The Admin button only appears when the user is on their user dashboard page. ❖ User needs to have admin status.
Sequence	❖ Users / Admin will need to log in first. ❖ Once a user/admin logs in, they should land at their user dashboard. If the user is of admin status, a button labeled "Admin" should appear in the navigation bar. ❖ The user will click on the "Admin" button that will bring them to the admin dashboard that currently contains three categories the user can browse : Registered Users, English speaking Doctors in Korea, English 'speaking' medical facilities in Korea. ❖ The user can use the buttons on the left sidebar to toggle between which information is displayed.
Postconditions	● Upon successful completion of the UC-011 (Admin Dashboard) use case, the user is navigated to the admin dashboard interface. ● The "Admin" button is displayed in the navigation bar if the user has admin status. ● The admin dashboard contains three categories: "Registered Users," "English Speaking Doctors in Korea," and "English Speaking Medical Facilities in Korea." ● The user can toggle between different information categories using buttons provided in the left sidebar.
Exceptions	❖ If the user is not logged in, they cannot access the admin dashboard, and an error message should be displayed prompting them to log in. ❖ If the user does not have admin status, the "Admin" button should not be displayed in the navigation bar. ❖ If there is an error in loading the admin dashboard or its contents, an appropriate error message should be displayed, and the user should be given the option to retry or contact support. ❖ If the user tries to access the admin dashboard through unauthorized means (e.g., by modifying the URL), access should be denied, and an error message should be displayed.

Notes	- Future plan is to implement being able to edit this data as an admin in this dashboard (eg. A hospital closes, doctor retires, etc). - Be able to create, read, update and delete user data or information as part of admin status / privilege.

Title	UC-10 Custom Error Page (404, 500)
Description	Invalid url / route - 404 Internal server error - 500
Dependencies	➢ The user enters in the wrong url address. ➢ There is a internal service error/ crash.
Preconditions	
Sequence	❖ 404 - This error page will show in the case that the user is trying to access a particular page through typing out the url but does not enter the url correctly. ❖ 500 - This error page cannot be the result of user error. It will only show when there is an internal server error.
Postconditions	● 404 - 404 Error is displayed with a short sentence with a link guiding the user back to the Home page. ● 500 - 500 Error is displayed with a short sentence with a link guiding the user back to the Home page.
Exceptions	❖ n/a
Notes	- /404 - /simulate500

Future plans and intended add on features

Title	UC-1 - Email subscription (Optional - Intended Feature)
Description	User can subscribe to MedKoreas newsletter
Dependencies	UC-01
Preconditions	❖ User needs to be on our website ❖ The website is accessible and functioning properly ❖ The user will need an email account.
Sequence	❖ User will scroll to the bottom of the landing page. ❖ At the section that talks about subscribing to the newsletter, the user will enter their email address in the input space provided. ❖ Once email address is entered, the user just needs to press the "Subscribe" button.
Postconditions	❖ The website will now store the users email and 앞으로 will send newsletters to that email (until the user clicks unsubscribe).
Exceptions	★ If the user does not have an email address, the user will need to create an email address. ★ If the user enters a incorrect email address (format ie; missing @ or .com etc)
Notes	➜

Title	UC-02 - Google Account (Optional / Suggested Feature)
Description	User login using google account (Optional)
Dependencies	none

Preconditions	❖ User has a Google account.
Sequence	
Postconditions	
Expectations	- If the User does not have a Google account, they must first create one using Google's infrastructure.
Notes	

Title	UC-03 - Selecting Language Options (Optional / Intended Features)
Description	Offers multi-language option
Dependencies	none
Preconditions	❖ User's mouse is in the homepage or other pages of the website ❖ Able to locate language option in the navbar ❖ The website is accessible and functioning properly
Sequence	❖ Users navigate to the language settings section or icon of the website. ❖ Include a dropdown menu or language selector is displayed, listing available options for languages(English, Chinese, Spanish, Hindi, Portuguese, Russian and Japanese) ❖ Users select their preferred language from the list

Postconditions	❖ The website's content is displayed in the user's preferred or selected language.
Exceptions	★ If the selected language is not available for translation, the website defaults to its primary language (English) ★ In rare cases of translation errors (hopefully does not happen), users may encounter inaccuracies in the translated content due to these discrepancies.
Notes	➔ The language options might contain the most commonly spoken languages worldwide, catering to a diverse linguistic needs of the users ➔ Users can switch languages at any time using the language selector