# Silent Spaces Locator: Second Release Experience Scenario


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The ***Silent Spaces Locator*** app will eventually allow users to identify a silent space near them for all their productivity needs. The target demographic for an app with this functionality would be secondary or post-secondary students, but in this day and age where working remotely has become more ordinary, the service could also benefit any working professionals who require a nearby quiet workspace. In this second scenario we will expand upon the expected functionality of the app from the first coding scenario, such as the integration of the google maps api, a cleaner updated UI, and more descriptive data for each space on campus.

## Scenario "Enhanced Functionality: Silent Spaces 2.0"

We described the initial user experience of the **Silent Spaces Locator** in our previous scenario, which detailed the user account creation process, finding a space, among other things. For this release we expect to expand upon our work and make the app more streamlined and feature rich.

Starting off, the login process has been adjusted a bit, where the user is met with an individual login/account creation screen upon entering the site for the first time, also requiring a user to be logged into to create/access the spaces.

### Updated UI and Styling

Our first scenario mainly focused on the functionality of the app, getting the backend setup, making sure the included features were working, etc. For this second release users will notice a cleaner and sleek aesthetic as they browse the pages of Silent Spaces. Updating the UI will not only help aesthetically, but will make navigating the app much more intuitive and enjoyable.

Users will quickly notice the new and improved *Space Cards* (more information below), which will include images to provide users with a glimpse of the atmosphere and amenities offered at a space before clicking to view more details. Furthermore, we are introducing additional information details within each Space card such as the space's, **overall rating, power outlet availability**, **and feedback on how crowded a space is currently**, all in efforts to enable the users to assess the suitability of a space more efficiently.

To enhance user convenience, user's will also now be able to search for a specific space by name or keyword, eliminating the need to scroll through the entire list of nearby spaces. Overall in effort to save a user time and effort when trying to locate a space.

Additionally, during the *Create a Space* process users will also have access to a Google Maps embed directly in the app (more information below). This integration will allow users to explore nearby spaces themselves, allowing them to make more informed decisions about where to work given their commute, location, etc.

### New Features: Space Cards and Views

Upon logging in, users are presented with a range of options to navigate through such as finding a space, creating a space, and adding a space to their favorites. As previously mentioned, spaces will now have "*space cards*" that quickly showcase relevant information to that space, that when clicked on, will enter the space-view.

Now, alongside the space's name and location, users can quickly assess a space's suitability by checking the space's overall rating, power outlet and printer availability. Additionally, Users will have the ability to check-in to the space directly from the Space View which facilitates real time updates to a space's occupancy levels.

Overall, these updates offer users enhanced visibility into each space at a quick glance, significantly improving the process of finding their ideal workspace.

### Google Maps Integration

During the *Create a Space* process the app will retrieve a user's location using location services upon obtaining permission. A user can also manually locate themselves using the Google Maps embed. When this is done, the geopoint is added to the Space document's location field. If a Space is missing a location, or there is incorrect data, some users might be able to recommend certain locations that can be used in lieu of data placed by the owner.

*Find a Space* can then create a query on the *spaces* collection table in our database, using a geopoint distance query. This query might also have different options depending on the search filter used.

Integrating Google Maps as a service allows users to visually explore nearby locations, providing more context and physical orientation. This allows users to make more informed decisions about their workspace based on many factors such as proximity to other locations or transportation hubs. Ultimately, this adds another layer of engagement for the user experience, along with the app's updated functionality.