Persistent Data Storage

The persistent storage of data for the in-building navigational system is relatively minimal. The code of the program can be stored in backups for each updated version for fall backs, as well as resets of versions for encountering issues. The database of the locations and coordinates are a JSON database that is stored on Firebase and the latest of the database is downloaded and paired with the system. In this way, the actual list of selectable destinations can be consistently changed and edited when the need arises. As stated previously, the JSON database is originated on Firebase so storage is not necessary for the database unless, like the backups of code, the user wants prior versions of the database to be stored in case of issues and/or version control. The backend navigational program, which integrates the map, allows for placement of locations, specification of traversable paths, and input of building plans is the Navigine associated API and SDK. Most of this work will be stored and backed up with the code of the user, but the indoor map creator for the digital map creation is available at the Navigine website and is tied to a user account.