Home Asset Management

Managing a portfolio of rental homes can be difficult to track and manage the various items inside of the home. And as property numbers in your portfolio increase, knowing your properties becomes more difficult.

You will design and build a "Home Asset Management" system to support a property portfolio owner manage their houses more efficiently.

Users:

Users will be able to register and create a "house".

Users will be able to manage the "house".

They will be able to invite other users to be able to "view" a "house" with no editing privileges, or allow them to "view" a "house" with full editing privileges.

A user can both be an owner of one house (or more) and they can be a viewer or editor on other houses.

The user should be able to "transfer" a house to a new user when it is sold, removing it from their own profile entirely.

A user should be able to fully manage their account (password, correct information changes e.g. spelling mistakes)

When a user logs in, it should show all the houses they have linked to them and how they are linked (owner, viewer, editor). The user clicks on the chosen house to go to the rooms.

House:

A house, when created should have an address (required), this be double data entry to ensure first correct submission.

When a house is viewed it should show a list of all the rooms inside it and a list of "edits" made to the home, like an audit log. E.g. Room added by editor Woodrow. Window added to master bedroom by Home owner. Radiator in bedroom 2 edited by User Adam Watkin.

When a house is viewed (clicked on) it should list any other users who have "access" to the house and what level of access they have "view only" or "editing".

Each house should have 1 owner. They are the only person that can transfer the house to another user or delete the house from the system.

Another user who can view the house, such as a local handy man, can view any and all information about the house, such as rooms, assets in the rooms and see the edit logs too.

Another user with editing privileges for the house can add / remove / edit anything inside the house, but cannot change anything about the house such as deleting the house, change the owner, change the details of the house.

A house should have a "building log" which allows the owner or someone with editing privileges to add building events to the building e.g. New roof built on this day. Extension build on this date etc.

Rooms:

Any assets (see next section) must be assigned to a room. E.g. Kitchen, hallway etc.

When a room is created, a name for that room is required as is the "floor" it is on e.g. ground, 1st etc.

A room, when created should ask for "optional" information such as dimensions, wall colour/ decoration

A room should then have "assets" added to it, such as radiator, window, blind, curtain rail, plug socket, carpet, rug, sofa and so on.

Assets:

These are the individual items inside of a room. All assets MUST be attached to a room.

When an asset is created, you MUST take a name for it and a description. These are required.

You should then offer to collection optional additional detail, such as colour, dimensions, which wall it is on (starting with the door wall and working clock wise round the room)

You should have a "details" box which allows a full and thorough description of the asset to be included.

Extension:

Add the ability to add images to each asset / room / house. So that any images needed such as showing how it should look / location on a wall etc