# R1 Description of your website, including, (robbie)

## Purpose

The purpose of our software is to allow for the accurate manual image annotation of property features within apartment floor plans. This will allow for the future use for our client to develop the project to incorporate computer vision and to more effectively evaluate apartment pricing.

## Functionality/features

The application will feature role based access control. There will be two types of users, regular users and administrators. These users will have different access rights based on if they sign in as an administrator or as a regular user. Users can create projects, buildings and apartments including CSV information which will be a description of the apartment.

Users will be able to upload floor plan images which will then be used for image annotation of various apartment features.

Users will be able determine which features they will tag. They will also be able to add, edit, red and delete the tags the have created prior to saving the image(s).

User will be able to edit and save their images at their discretion before submitting them to an administrator for review. After submission, users will be unable to change their annotations.

Users will be able to see only the projects that are assigned to them by administrators.

Administrators will be to review user tags and revert the changes made to the original floor plans.

## Target Audience

The primary audience for our application is our client, Skychute and professionals within the real estate industry. Skychute, is the company that has tasked us with the development of this application. Professionals within the real estate industry will be the users of our application and therefore comprise part of our target audience. Our secondary audience is other developers who are interested in image annotation techniques.

Tech Stack

The programming languages will we use are Javascript, HTML5, CSS3 and the MERN stack. GIT and GITHUB will be utilized for source control/version control. In terms of project planning and management, we will be using Trello, Mood boards (Pinterest) and wireframes (Balsamiq). The application will be deployed on Heroku. We will also be using AWS-S3 from cloud storage. For security purposes, our application will employ AWS-IAM. For communication between the team and with our client we have employed Slack. For documentation collaboration, we are utilising google docs.

* **Purpose**
* Effortless and accurate manual image annotation for future use with computer vision.
* To allow property developers to tag features in order to better evaluate apartment prices.

**Functionality/features**

* role based access control (admin, regular users): sign in/sign up, different dashboards,
* different landing pages (admin, regular users)
* users can create projects, buildings, apartment including CSV info (description of apartment)
* users can upload floor plan images for image annotation
* users can view the projects that admins assigned to them
* Users can tag property features on floor plans: can add, edit, read, delete the tags before saving the images.
* User can edit & save the images several times before submitting to admin for review (user will not be able to change it after submission)
* admin can review users tags and can revert the status of floor plans

# 

**Target audience**

* Skychute (our client) -Why they want us to do it.
* property industry professionals. - so that prices of real estate are better estimated.
* project managers
* the general public who is interested in image annotation. -this is so that other developers can use our code in the future.

**Tech stack.**

* Programming Languages: JavaScript, HTML, CSS, SASS, MERN stack
* Source Control: Git & GitHub
* Planning & Implementation: 1. Project management (Trello), 2. Mood board (Pinterest), 3. Wireframes (Balsamiq)
* Deployment Platform: Heroku
* Cloud Storage: AWS - S3
* Security: AWS - IAM

**R2- DATAFLOW DIAGRAM (Nina)**

**R3- Application Architecture Diagram (Nina)**

**R4- User Stories (Ellie 13/01/2020: we need to keep track of user stories as per the requirement)**

**[Requirement]**

1. Provides multiple user stories that use ‘persona, what and why’ that outline meaningful features of project.

2. Shows evidence of user story revision and refinement.

**[Ellie’s Questions]**

1. I came up with several user identities (not sure if it’s better to do it this way? If not, I’m happy to change them): user, CEO at Skychute, Developer at Skychute, Project Manager at Skychute, Project Manager at a construction company, Real Estate Agent, Property Valuer.

**All Users**

**•** Angel: As a user, I would like to sign up an account, so I can log into my account on the website later.

• Jurra: As a user, I would like to log into my existing account, so I can use the functionalities provided by the website.

• Tom: As a user, I would like to browse the website on my mobile, computer and my tablet, so I can use this application on different devices. (to be discussed)

• Ellie: As a user, I would like to sign out from the website, so my account is more secure.

Admins

• Ricky: As the CEO at Skychute, I would like to view the data in the following structure (projects -> buildings -> apartments), so it is easier for our company to maintain the data.

• Mark: As the Developer at Skychute, I would like to grant some users the admin access, so we can have more admin users to manage the projects.

• Nina: As a Project Manager at Skychute, I would like to assign projects and buildings to regular users, so users can tag the features on the floor plan images. (to be discussed)

• Elliot: As a Project Manager at a construction company, I would like to add, view, update and delete projects.

• Wayne: As a Project Manager at Skychute, I would like to add, view, update and delete buildings.

• Alex: As a Project Manager at a construction company, I would like to add, view, update and delete apartments.

• Prad: As a Project Manager at Skychute, I would like to upload floor plan images and apartment information (csv files) to apartments.

• Ragan: As a Project Manager at Skychute, I would like to review tagged floor plans submitted by regular users, so I can manage the project progress.

• Dale: As a Project Manager at Skychute, I would like to have the ability to reverse the status tagged floor plans (from ‘completed’ back to ‘editable’), so users can edit it again.

**Regular users**

• Luke: As a Property Valuer, I would like to tag the property features on the floor plans, so I can better evaluate the property price.

• Chelsea: As a Real Estate Agent, I would like to create, read, remove and delete tags, so I can manage the tags as I wish.

• Max: As a Real Estate Agent, I would like to save the tagged plans multiple times before submission, so I can go on a coffee break and come back to the image I am working on.

**R5- Wireframes for multiple standard screen sizes, created using industry standard software (Robbie and Ellie)**

**R6- Screenshots of your Trello board throughout the duration of the project**

**(Robbie)**

**Proposed screenshot time (Ellie ^0^): This is what I meant by listing the dates to screenshot Trello board, so that we will have enough screenshots to show our progress of project management (but not too many)**

1. **13/01: Set up Trello board**
2. **17/01: at the end of 1st week**
3. **22/01: middle of 2nd week** (this can be removed if you think it’s too many)
4. **24/01: at the end of 2nd week**
5. **29/01: middle of 3rd week** (this can be removed if you think it’s too many)
6. **31/01: at the end of 3rd week**
7. **05/02: middle of 4nd week** (before the due day 06/02)

/