**The application will be a portal that will allow users to manage real estate posts and sell or buy real estate. The posts will be managed in the portal Admin. There will also be a mobile application that will allow users to browse for the listed properties. The mobile application can be adapted to enable the user to post a new property.**

1. As a normal user (guest) you can access the website and browse through all the real estate available, read the descriptions and the details

2. An authenticated user has the same functionality as a normal user but with the added functionality of:

a) Being able to contact a seller for a real estate

b) Post a new real estate that he has for sale

c) Manage his account and settings

3. A super admin can overview new estates that are posted and can confirm if they meet the terms which allow them to be publicly available

4. All users will need an upload module that will allow them to post photos of the realestate

5. Google Maps can be integrated to help users understand the location of the estates

6. Ability to upload videos

7. Optional features: a) Storage solutions integration (Azure, AWS)

b) A chat system between the registered client and the seller.

The application's purpose is to offer a tool that will help sellers and buyers browse for the available estates on the market and get in touch easily.

**First Milestone Requirements**

**WEB Application**

✓ Normal users can browse through the listings using the most used web browsers.

✓ Authenticated users can also post a new listing for sale uploading all the media required

✓ Authenticated users can also manage their settings

✓ Authenticated users can also organize their favorite estates and keep track more easily

✓ Allow an admin to log in and give the possibility to validate or invalidate new listings

**MOBILE Application**

✓ The mobile application will include the Normal user and Authenticated user's functionality giving it the same functionality as the web application

**BACK-END Application**

✓ The backend application will provide all API endpoints required to create the interaction between web and mobile

✓ The backend needs to be well organized and designed based on an agreed structure for the clients

✓ Basic email server that will be able to send an email to a user (when creating account or when the password was forgotten)

**Secondary Milestone’s Requirements**

**WEB Application**

✓ Listings of any house should have a google maps integration to display the estate’s location

✓ Sellers and buyers can chat about a potential interest in a house

✓ Buyers can create a first contact with the seller

✓ User ability to create an account using the Google Account synchronization

✓ User ability to customize Login and Security Settings, Notifications for this profile account

**MOBILE Application**

✓ All users will be able to use a chat system

✓ Authentication with Google

✓ Implementation of the admin functionality for the mobile application

**BACK-END Application**

✓ Improve the way the files are stored over a cloud-based system

✓ Advanced email when:

➢ a user will receive messages

➢ the admin should receive an email when a new listing has been added awaiting approval

➢ a new listing has been approved by the admin

➢ some of a user’s favorites have changed the price or state of the listing

**REVIEW**

**First Milestone Requirements**

* The application must be user friendly for all the users and well organized
* The email server should also send an email when creating account for the confirmation of the account created
* Authenticated users should manage the security and the design settings
* User must give the agreement before the application starts using their location, to use the location while they run the application or all the time

**Secondary Milestone’s Requirements**

* It could be better if the user can create an account using beside Google Account synchronization and Facebook
* All users can be able to use a chat system on the website also, not only on the mobile application
* The most important part of this web application, is to be respected the deadline for the release of both milestones.
* The most used tools for static testing are Checkstyle, Soot, SourceMeter.