

# Project Requirements

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**Project Name: StudiHome**

**Team:** 6

**Costumer:** Bledar Aga

## Revision History

Version	Date	Revision Description
0.01	October 8. 2014	<ul style="list-style-type: none"><li>• Added use cases and diagram</li><li>• Changed user called <i>student</i> to <i>tenant</i></li><li>• Changed functional requirements for advertisements</li></ul>
0.02	October 26. 2014	<ul style="list-style-type: none"><li>• Added minimal information requirement to use case <i>Generate Advertisement</i></li><li>• Added use case <i>Login</i></li><li>• Updated use case diagram</li><li>• Changed actor description to clarify that they are indeed the same person</li></ul>
1.0	December 10. 2014	<ul style="list-style-type: none"><li>• Updated information needed for a valide advertisement: Expiration date removed</li><li>• Some of the vocabulary has been adjusted to match the descriptions used in the web service</li><li>• Changed subsection <i>Change Advertisement</i>: Adverts do not need a edit mode. This is taken into account.</li><li>• Due to time constraints, the use cases <i>Rank promising tenants (Advertiser)</i>, <i>Rank interesting advertisements (Tenant)</i> and <i>Tenant is no longer interested in ad</i> have been deleted.</li></ul>

# 1 Introduction

## Purpose

- The aim of this project is to create a platform where rooms in shared flats and whole apartments can be rented and advertised.

## Stakeholders

- StudiHome Inc. (CEO Bledar Aga)

## References

- wgzimmer.ch
  - Communication between advertiser and tenant.
- students.ch
- tutti.ch
- immoscout24.ch
  - Search
  - List of favorites
  - Property alerts
- homegate.ch

# 2 Overall description

## Actor characteristics

There is only one user class. But this class can have two different roles depending on whether or not they are the owner of an advertisement or a person looking for a room/flat.

- Advertiser
  - Shared flat looking for room mate(s)
  - Landlord renting flat
- Tenant
  - Searching for room in shared flat
  - Searching for flat

### 3 Requirements

#### Functional requirements

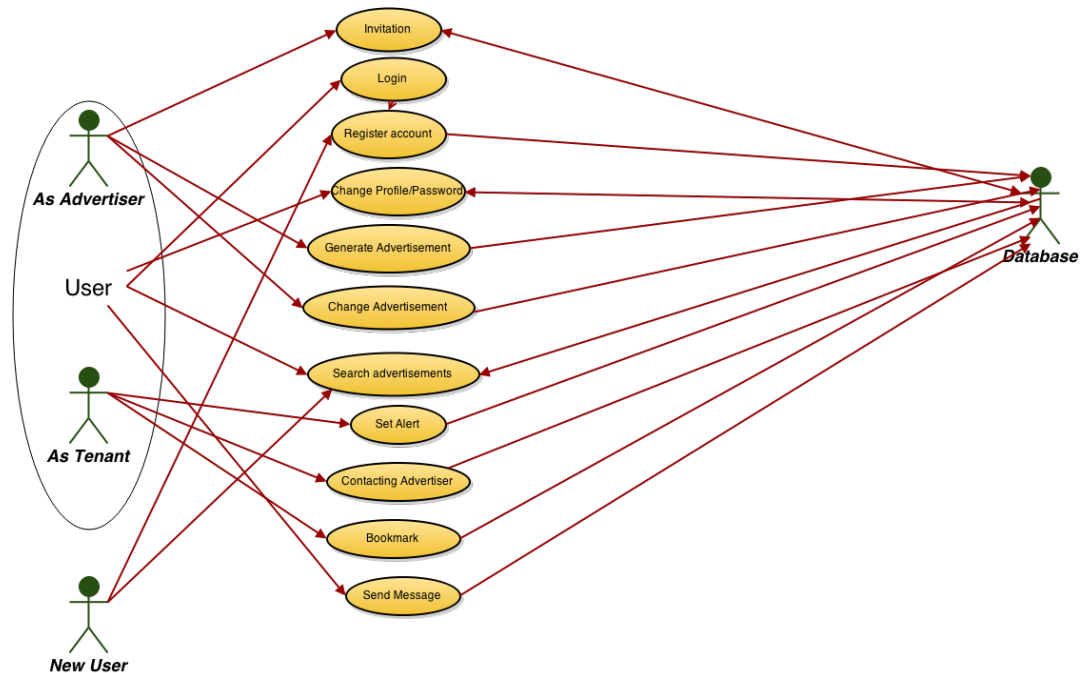
- Login
  - Name
  - Valide mail address
- Advertisement
  - Rent
  - Room/Apartment size
  - Number of current inhabitants
  - Address
  - Pictures
  - Description (free text)
  - Area map

#### Non-functional requirements

- Only one account per user
- No difference between tenant and advertiser account
- Usable on mobile devices and computers (autoscaling)

## 4 Use cases

### Use case diagram



### Login

- Actors
  - User
- Description
  - Users have to have an account and have to be logged in in order to use advanced features like bookmarking, setting alerts and creating ads
- Trigger
  - User clicks the "login button"
  - User is not logged in and clicks on one of the advanced features
    - \* Example: User wants to bookmark an ad after a search
- Pre-Condition
  - User is not logged in

- Post-Condition
  - User has an account
  - User is logged in
- Main Scenario
  - A new user comes to studihome and would like to create an ad
  - After clicking on the "create ad" button, he is asked to log in or to register an account
  - If he does not have an account, he can register one (see use case "Register account")
  - If he has an account, he can log in with his credential and is redirected to the appropriate page

## **Register account**

- Actors
  - User
- Description
  - Every user has to have account and has to be logged in if he wants to use the more advanced features of our service.
- Trigger
  - Click the "register" button
- Pre-Condition
  - A (formally) valid email address has been entered in the form
  - A password has been entered
- Post-Condition
  - A new user has been generated
  - The user is brought to his home screen
  - Optional: The user receives a confirmation email
- Main Scenario
  - A new user comes to our web page. He does not yet have an account.
  - He enters his email and a password of his choice
  - A new account is created.

## Generate Advertisement

- Actors
  - Advertiser
- Description
  - An advertiser wants to create an ad for his property and publish it, so interested tenants can access it.
- Trigger
  - The event is initialized by pressing the button "create advert"
- Pre-Condition
  - User is logged in
- Post-Condition
  - An advertisement object is created
    - \* The minimal information requirements are
      - address
      - rent
      - room size
      - room number
    - \* The advertiser is free to give additional information if required
  - The ad is visible in "my adverts" on the advertisers page
  - The ad is visible for other users and can be searched for
- Main Scenario
  - The advertiser clicks the appropriate button
  - A UI is opened where he can enter all the information he wants
  - He submits his ad by clicking the appropriate button
  - He is redirected to his home

## Change Advertisement

- Actors
  - Advertiser
- Description

- Advertisements have a definite lifespan and they might change. The advertiser can therefor edit his own advertisements, close them or keep them open for longer then normal.
- Trigger
  - Clicking the appropriate button in the web gui
- Pre-Condition
  - Advertisement is open
  - User is logged in
  - User owns the advertisement (Has created it himself)
- Post-Condition
  - Changes are uploaded and the ad is saved
  - Optional: Tenants having bookmarked this ad are informed about the change
- Main Scenario
  - A advertiser realizes, he has forgotten an important information in his advertisement or that it is about to be expired
  - He logges on to his account, finds the ad in question and clicks on it
  - The edit view is opened and he can make his modifications and prolong the ad
  - He submits the changed form and is shown a confirmation
  - The ad is alway in edit mode for its owner.

## Search advertisements

- Actors
  - Tenant
  - New User (no account)
- Description
  - The basic search function in which users can search for advertisements.
- Trigger
  - The user clicks search in the main window



- The user hits the enter button while the search window is active
- Pre-Condition
  - None
- Post-Condition
  - A list with all the ads matching the search criteria is shown
  - (The list is just the list of all open ads if no keywords have been entered.
- Main Scenario
  - A user finds StudiHome (our web service) and uses the search field.

### **Set Alert (Tenant)**

- Actors
  - Tenant
- Description
  - The tenant wants to be informed if a new ad matching certain user defined criteria is published.
- Trigger
  - An alarm is set in the search window
- Pre-Condition
  - One or more search keyword have been entered
  - The user is logged in
- Post-Condition
  - An alarm is set
  - The user will receive a message every time an ad matching his criteria is published
- Main Scenario
  - A logged in user is searching for an item but he is not happy with the result
  - He can set his current search queue as alarm
  - Every time a new item with these criteria is published, the user receives a message

## **Show interest in advertisement**

- Actors
  - Advertiser
  - Tenant
- Description
  - Tenant is interested in advertisement and wants to show it.
- Trigger
  - Tenant clicks “show interested” button in advertisement
- Pre-conditions
  - Tenant is logged in.
  - Advertisement is open (not closed or expired)
  - Tenant and Advertiser have valid email addresses
- Post-conditions
  - Interest is displayed in web app for advertiser
  - Advertiser receives notification email
  - Advertisement is marked as “i’m interested”
- Main Scenario
  - Tenants clicks “show interest” button
  - Advertiser receives notification

## **Contact advertiser**

- Actors
  - Advertiser
  - Tenant
- Description
  - Tenant is interested in advertisement and wants to contact advertiser.
- Trigger
  - Tenant clicks “contact” button in advertisement
- Pre-conditions

- Tenant is logged in.
- Advertisement is open (not closed or expired)
- Tenant and Advertiser have valid email addresses
- Post-conditions
  - Interest is displayed in web app for advertiser
  - Advertiser receives notification email
- Main Scenario
  - Tenants clicks “contact” button
  - Advertiser receives notification

### **Advertiser invites tenant for visit**

- Actors
  - Tenant
  - Advertiser
- Description
  - Advertiser wants to arrange visits with tenants who are interested in his advertisement
- Trigger
  - Tenant clicks the "show interest" button (See other case)
- Pre-Condition
  - Advertisement is open
  - Notification email was received
- Post-Condition
  - Tenant receives invitation email
  - If the tenant agrees to the date, an event for both parties is generated
- Main Scenario
  - Advertiser receives notification email
  - Advertiser logs on and sees, who’s interested in his advertisement
  - Advertiser select message ...
  - ... and select time slots for visite
  - Click “send”
  - Notification email is send to tenant

## Advertiser writes message to tenant

- Actors
  - Advertiser
  - Tenant
- Description
  - Advertiser wants to send a message to an interested tenant
- Trigger
  - Advertiser receives notification (See other use case)
- Pre-Condition
  - Advertisement is open
  - Notification email was received
- Post-conditions
  - Tenant receives notification mail
  - Tenant receives message (in web app)
  - message is marked as “responded to” (Advertiser)
- Main Scenario
  - Advertiser receives notification email
  - Advertiser logs on to web app and sees, who’s interested in his advertisement
  - Select message
  - Writes new message
  - Click “send”
  - Email is send to tenant
  - Message is marked as “responded to”