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	- Added use cases and diagram - Changed user called *student* to *tenant* - Changed functional requirements for advertisements
0.02	October 26. 2014	- Added minimal information requirement to use case *Generate Advertisement* - Added use case *Login* - Updated use case diagram - Changed actor description to clarify that they are indeed the same person
1.0	December 10. 2014	- Updated information needed for a valide advertisement: Expiration date removed - Some of the vocabulary has been adjusted to match the descritpions used in the web service - Changed subsection *Change Advertisement*: Adverts do not need a edit mode. This is taken into account. - Due to time constraints, the use cases *Rank promising tenants (Advertiser)*, *Rank interesting advertisements (Tenant)* and *Tenant is no longer interested in ad* have been deleted.

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 advertises.

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 ore not the 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/Apratement size
  - Number of current inhabitants
  - Address
  - Pictures
  - Descritpion (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
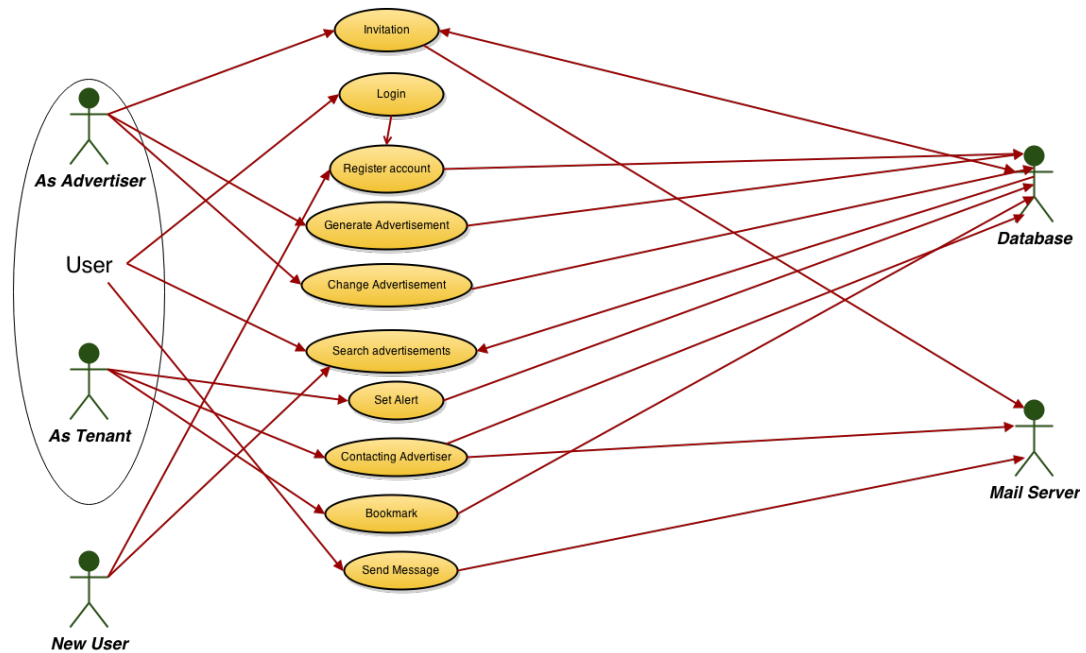
Login

- 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 jet 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

  - Adertiser

- 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 off 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 advertisment 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 advertisment 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 advertisment
  - Select message
  - Writes new message
  - Click "send"
  - Email is send to tenant
  - Message is marked as "responded to"