SRS - Team 4 ESE 2016

Software Requirements Specification Document

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Contents

I.Revision History

Version	Date	Description
01	08.10.2016	Document initialized and structured.
02	18.10.2016	Added new Use Case
03	25.10.2016	Added different sell and propertytypes
04	08.11.2016	Release 2.0 Version
05	22.11.2016	Adapted SRS to newest changes for sell and propertytypes (especially the auction)
06	07.12.2016	

1. Introduction

1.1. Purpose

The purpose of this project is to create a website for users to search for properties and roommates. This SRS should give a detailed overview of all aspects of the whole project. It is intended to clarify and capture the requirements of the customer and to work as a contract between the customer and the ese-team 4.

1.2. Stakeholders

The stakeholders of this projects are the ESE 2016 staff, for team 4 especially "Manuel Leuenberger".

1.3. Definitions

Ad: A specific site on the website where the advertiser can publish detailed information about a property which is for rent/sale/auction. The ad can be seen from any user.

Advertiser: A registered user that already has placed (or wants to place) one or multiple ad on the website

Normal User: Free user with delayed alerts

Premium User: Paid user, who's ads are shown first on the search and the front page, and has no delay on the alerts

Property: A property is either a room, flat, house or studio.

Registered User: A person that is already registered on the website; this person uses the website for its intended purpose.

Searcher: Any user who is looking for ads on the website

Selltypes: different selltypes of an ad (auction, buy, rent)

Unregistered User: A person that uses the website for its intended purpose but is not yet registered.

1.4. System Overview

The software system is a website which helps users to find a property or a person to share an apartment with. The system should assist a user to find the optimal ad by matching various criteria of the user's preferences and the ads specifications. Furthermore, the system should provide the users a way to communicate with advertiser to arrange appointments.

1.5. References

1.6. Overview

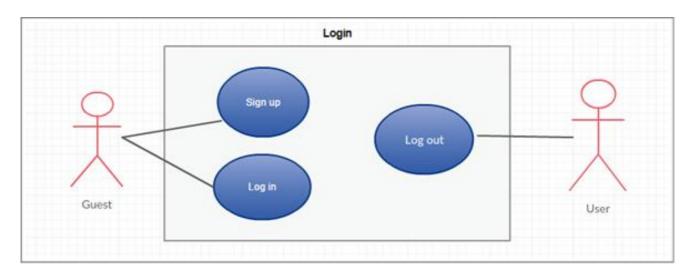
The rest of the SRS contains the overall description in section 2 as well as the specific requirements in section 3.

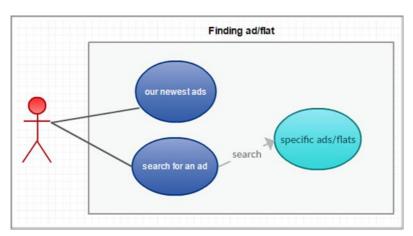
Section 2 is most important to the customers and potential users since it describes the system from the user perspective. This is mostly done by describing different use cases and typical user scenarios.

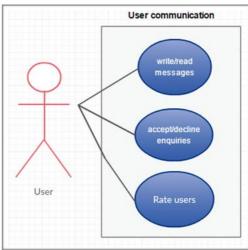
Section 3 is most important to the developers since this section describes the functionality of the system. That means, this section covers all aspects that are needed to fulfil the scenarios described in section 2. Furthermore, all additional requirements are specified in this section.

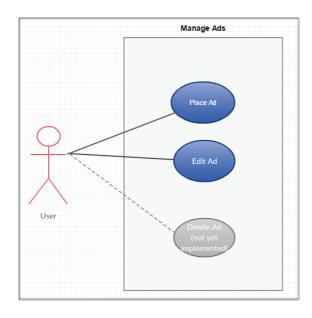
2. Overall Description

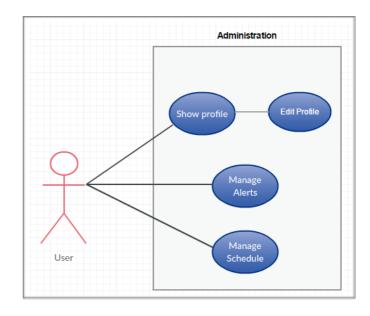
2.1. Overview Diagrams











2.2. Advertiser Use Cases

1. Place an ad

Actor	Registered User
Description	As a registered user I want to be able to place an ad
Trigger	
Precondition	User has access to the internet
	The user owns an account on the website
	3. The user knows his e-mail address and password to be
	able to log in
	4. The user is logged in
Basic Flow	The user navigates to the "place an ad" page
	2. The user fills in the form
	3. The user submits the ad
	4. The ad will be placed on the "My advertisements" list
Alternative Flow	The user provides invalid information
	The user will have to fill in the form again
	The user loses access to the internet while filling in the
	form
	The user has to start from beginning
Specific Requirements	none
Notes	There are 3 different selltypes and 4 different propertytypes

2. Edit ad

Actor	Registered User
Description	As a registered user I want to be able to edit my ads
Trigger	
Precondition	User has access to the internet
	2. The user owns an account on the website
	3. The user knows his e-mail address and password to be
	able to log in
	4. The user is logged in
	5. The user has already placed an ad
ъ : п	
Basic Flow	1. The user moves to the "My properties" site
	2. The user gets an abstract of all his ads
	3. The user selects the ad he wants to edit
	4. The user clicks on the "Edit ad" shortcut
	5. The system redirects the user to the "Edit ad" site
	6. The user changes the information he wants to change
	7. The user submits the changes
	8. The system saves the adjusted ad
Alternative Flow	The user loses access to the internet as he adjusts the ad
	a. The user has to start from beginning
Specific Requirements	none
Notes	none

3. Delete ad (not yet implemented)

Actor	Registered User
Description	As a registered user I want to be able to delete my ads
Trigger	
Precondition	User has access to the internet
	2. The user owns an account on the website
	The user knows his e-mail address and password to be able to log in
	4. The user is logged in
	5. The user has already placed an ad
Basic Flow	
Alternative Flow	
Specific Requirements	
Notes	Being able to delete an ad was not demanded by the customer

4. Manage enquiries

Actor	Registered User
Description	As a registered user who placed at least one ad I want to be able
	to see an overview of all my enquiries, as well as being able to
	accept or decline them.
Trigger	
Precondition	User has access to the Internet
	2. The user owns an account on the website
	3. The user knows his e-mail address and password to be
	able to log in
	4. The user is logged in
	5. The user has already placed an ad
	6. To be able to manage them, the user needs to have at
	least one enquiry
Basic Flow	The user moves to the "Enquiries" site
	2. The user gets an overview of all his enquiries
	3. The user either accepts or declines the new enquiries
Alternative Flow	The user neither accepts nor declines an enquiry before
	its scheduled date
	a. Nothing happens
Specific Paguiromente	none
Specific Requirements	none
Notes	What should happen if the advertiser doesn't accept or decline an
	enquiry before it's due?

5. Manage schedule

Actor	Registered User
Description	As a registered user I want to see a schedule of all my presentations (visitors of my flat) and all the visits I've realized in the past. The schedule must provide an overview that contains the address of the concerning flat, the date and time of the visit and a link to the ad-website. In the schedule of my presentations I want an additional link to see a list of all the visitors of a flat.
Trigger	
Precondition	 The user has access to the internet The user has an account on the website The user is logged in
Basic Flow	User moves to the schedule page The user gets an overview of the scheduled presentations as well as of the scheduled visits of the past.
Alternative Flow	
Specific Requirements	none
Notes	Are visits shown only from the past, or from the future as well?

6. Compile a list of the most promising candidates

Actor	Registered User
Description	As a registered user I want to create a visitable list of the most promising properties to get a better overview. Therefore, I want the possibility to bookmark the ad I'm visiting to add it to this list.
Trigger	
Precondition	 User has access to the Internet The user owns an account on the website The user is logged in
Basic Flow	 The user searches a promising ad on the Home page or through the Search page by filling in the form On the ads site the user can bookmark the ad with the bookmark button on the top right if it is not his own.
Alternative Flow	
Specific Requirements	
Notes	The list is found on the My room page and the bookmarks can be reversed with the same button as they were added.

7. Edit Profile

Actor	Registered user
Description	After creating a profile, I want to be able to edit it
Trigger	
Precondition	The user has access to the internet
	The user has an account on the website
	3. The user is logged in
Basic Flow	The user opens his public profile and clicks on "Edit Profile"
	The user gets all the information regarding his profile and is able to edit everything
Alternative Flow	The user deletes crucial information from his profile, such as his Username or First name An error occurs and the changes won't be saved
Specific Requirements	
Notes	

8. Sell properties directly in an ad (new)

Actor	Registered User
Description	As a registered user I want to sell properties directly in an ad.
Trigger	
Precondition	The user has access to the internet
	2. The user has an account on the website
	3. The user is logged in
Basic Flow	The user moves to the "Place an ad" page
	The user fills out the presented form and specifies a buy- out price
	3. The user submits the ad
	4. The ad will be placed on the "My advertisements" list on
	the My rooms page
Alternative Flow	
Specific Requirements	
Notes	The form gets automatically adapted for direct sales.

9. Sell properties through an auction in an ad (new)

Actor	Registered User
Description	As a registered user I want to sell properties as an auction in an
	ad.
Trigger	
Precondition	The user has access to the internet
	The user has an account on the website
	3. The user is logged in
Basic Flow	The user moves to the "Place an ad" page
	2. The user fills out the presented form and specifies an auc-
	tion duration and a starting price with the option for an ad-
	ditional buyout price.
	3. The user submits the ad
	4. The ad will be placed on the "My advertisements" list on
	the My rooms page
Alternative Flow	
Specific Requirements	
Notes	The form gets automatically adapted for auctions.

2.3. Searcher Use Cases

10. Contact advertiser

Actor	Registered User
Description	A registered user should be able to contact an advertiser to ask
	for more information about the ad or to enquire a meeting.
Trigger	
Precondition	The user has access to the internet
	2. The user has an account on the website
	3. The user is logged in
Basic Flow	The user searches a promising ad on the Home page or
	through the Search page by filling in the form
	2. On the ads site the user can contact the advertiser on the
	bottom of the ad's page in the Advertiser frame
Alternative Flow	
Specific Requirements	
Notes	

11. Send an enquiry

Actor	Registered User
Description	As a registered user I want to enquire a meeting with the adver-
	tiser of an ad I'm interested in.
Trigger	
Precondition	The user has access to the internet
	2. The user has an account on the website
	3. The user is logged in
Basic Flow	The user searches a promising ad on the Home page or
	through the Search page by filling in the form
	2. On the ads site the user can send a timely fixed enquiry to
	the advertiser by clicking on the "Send enquiry to advertis-
	er" button in the Visiting times frame.
Alternative Flow	The user searches a promising ad on the Home page or
	through the Search page by filling in the form
	2. On the ads site the user can contact the advertiser on the
	bottom of the ad's page in the Advertiser frame to enquire
	an meeting.
Specific Requirements	
Notes	

12. Bookmark an ad

Actor	Registered User
Description	A registered user can bookmark an ad to find it later
Trigger	
Precondition	User is logged in
	The ad was not already bookmarked
	The ad doesn't belong to the user
Basic Flow	The logged in user opens an ad
	On the top right he clicks on the button "Bookmark Ad"
	3. He can find all his bookmarked ads on My Properties > My
	Bookmarks
Alternative Flow	The ad was already bookmarked
	The user clicks on the button "Bookmarked"
	The ad gets removed from "My Bookmarks"
Specific Requirements	
Notes	Included in Compile a list of the most promising candidates?

13. Subscribe to alerts

Actor	Registered User
Description	As a registered user I want to subscribe alerts for specific search filter criteria. So I will receive alerts if a new ad fulfills my search criteria.
Trigger	Citeria.
Precondition	 The user has access to the internet The user has an account on the website The user is logged in
Basic Flow	 The user is logged in The user moves to the "Alerts" page The users fills in the search form and clicks on the Subscribe button below the search form If a new ad gets placed that matches his criteria, he gets a message.
Alternative Flow	
Specific Requirements	
Notes	The active alerts are shown on the alerts page. If he's a premium user, the alert gets send immediately. If he's a normal, it gets delayed by an hour.

14. Expanded Search Form (new)

Actor	Anyone
Description	Added new search criteria.
Trigger	Click the search button on the search page
Precondition	The user has access to the internet
Basic Flow	The user opens the search menu and fills out all the required search criteria
	After confirmation the results are displayed, with the option to search again
Alternative Flow	Some information was left blank
	 An error occurs with the request to fill out the missing elements
Specific Requirements	-
Notes	-

15. Fast Search

Actor	Anyone
Description	You can search for an directly from the home page
Trigger	Click the search button on the homepage
Precondition	-
Basic Flow	The user fills out all the required search criteria
	After confirmation the results are displayed on the same
	page as a regular search would refer to
Alternative Flow	Some information was left blank
	An error occurs with the request to fill out the miss-
	ing elements
Specific Requirements	-
Notes	-

15. Place a bid (new)

Actor	Registered User
Description	A user should be able to place a bid on an auction
Trigger	Click the button "Place Bid"
Precondition	The user is logged in
	The user isn't owner of the auction
	3. The user isn't already highest bidder
	The auction is still running
Basic Flow	The user opens a property of the type auction
	The user puts a price into the place bid field
	The user clicks the button "place bid"
	4. The page is refreshed and he is the highest bidder
Alternative Flow	The user doesn't meet one or more preconditions
	The page refreshes without changing anything
Specific Requirements	
Notes	

16. Display Results

Actor	Anyone
Description	The results from either search gets displayed neatly in a result
	page, with the option to sort the ads and show them on a map
Trigger	Click the search button on the homepage or the search page
Precondition	-
Basic Flow	The user opens the search menu and fills out all the re-
	quired search criteria
	After confirmation the results are displayed
	3. The user can search again, with new criteria
	4. The user can display all the ads in the results
Alternative Flow	-
Specific Requirements	-
Notes	Premium ads get shown first in the results

2.4. Other Use Cases

16. Register on the website

Actor	Unregisterd User
Description	Anyone should be able to register himself on the page to access
	the full features.
Trigger	
Precondition	The user has access to the internet
	The user has an email account
Basic Flow	The user moves to the "Login" page.
	2. The user clicks on "sign up" to reach the "sign up" page
	3. The user fills in the form to sign up and clicks on the "Sign
	up" button below the form.
Alternative Flow	
Specific Requirements	
Notes	Currently the email address must not be confirmed. So any ad-
	dress could be used for the login.

1. Login on the website

Actor	Registered User
Description	As a registered user I want log in on the website to access all
	features.
Trigger	
Precondition	The user has access to the internet
	The user has an account on the website
Basic Flow	The users moves to the "Login" page
	2. The user fills in his Email and Password and clicks on the
	"Login" button
Alternative Flow	The users goes to the login page
	2. The users logs in via his google account
Specific Requirements	
Notes	

2. Visit profile

Actor	Registered User
Description	As a registered user I want to visit the profile of an advertiser to
	find out more about him.
Trigger	
Precondition	The user has access to the internet
	The user has an account on the website
	3. The user is logged in
Basic Flow	The user searches a promising ad on the Home page or
	through the Search page by filling in the form
	On the ads site the user can visit the advertiser's profile
Alternative Flow	The user moves to "Enquiries" page
	2. The user can click on the usernames listed in the enquir-
	ies
Specific Requirements	
Notes	

3. Write Message

Actor	Registered User
Description	As a registered user I want to write messages to other registered
	users especially to advertisers.
Trigger	
Precondition	The user has access to the internet
	2. The user has an account on the website
	3. The user is logged in
Basic Flow	The user visits the profile of the desired user and clicks on
	the "Message button" and the message window opens
	The user adds a subject and a message and clicks on
	"Send"
Alternative Flow	The user moves to the "Messages" page and clicks on
	"New" on the left
	The user adds a subject and a message and clicks on
	"Send"
Specific Requirements	
Notes	This Basic Flow chosen because it seems to be the common way
	to send messages compared to the Alternative Flow

4. Read Message

Actor	Registered User
Description	As a registered user I want to read the messages other users sent
	me.
Trigger	
Precondition	The user has access to the internet
	The user has an account on the website
	3. The user is logged in
Basic Flow	The user moves to the "Messages" page and lands direct-
	ly in the inbox to read and access received messages
Alternative Flow	
Specific Requirements	
Notes	

5. Rate User

Actor	Registered User
Description	As a registered user I want to rate users I met as a decision guid-
	ance
Trigger	
Precondition	The user has access to the internet
	The user has an account on the website
	3. The user is logged in
	The user had presentations
Basic Flow	The user moves to the "Schedule" page
	The user clicks on the "See List" button in the Visitors col-
	umn Below "Your Presentations"
	The user can rate users in the Rating column
Alternative Flow	
Specific Requirements	
Notes	

2.5. Actor characteristics

- 3. Specific requirements
- 3.1. Functional Requirements
- 3.2. Non-Functional Requirements
- 3.3. Performance
- 3.4. Safety
- 3.5. Reliability
- 3.6. Availability
- 3.7. Security
- 3.8. Usability
- 3.9. Logical Structure of the Data