

Software Requirements Specification for FlatFinder
Introduction to Software Engineering

University of Bern

University of Bern

SRS - Team 4 ESE 2016

Software Requirements Specification Document

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Version: ~~2~~⁺
Date: ~~08~~¹⁸.10.2016

Contents

I.Revision History

Version	Date	Description
01	08.10.2016	Document initialized and structured.
02	<u>18.10.2016</u>	<u>Added new Use Case</u>
...		

1. Introduction

1.1. Purpose

The purpose of this project is to create a website for users to search for rooms 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 „NameOfAssistant“.

1.3. Definitions

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

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

Premium User:

Normal User:

Ad: A specific site on the website where the advertiser can publish detailed information about a room which is for rent. 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

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

1.4. System Overview

The software system is a website which helps users to find a room 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

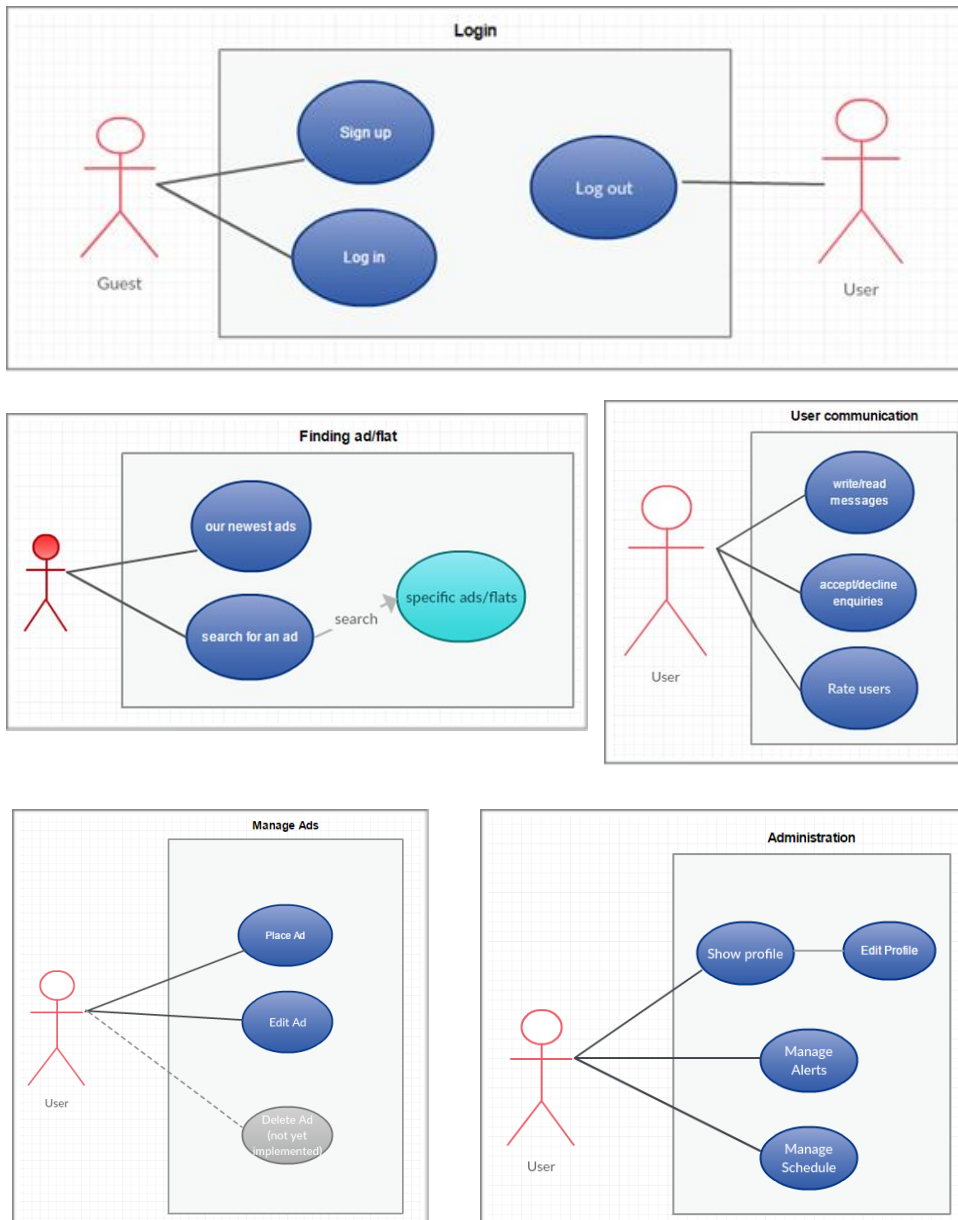
The rest of the SRS contains the overall description in section 2 as well as the specific requirements in section 3.

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	<ol style="list-style-type: none">1. User has access to the internet2. The user owns an account on the website3. The user knows his e-mail address and password to be able to log in4. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. The user navigates to the „place an ad“ page2. The user fills in the form3. The user submits the ad4. The ad will be placed on the „My advertisements“ list
Alternative Flow	<ol style="list-style-type: none">1. The user provides invalid information<ul style="list-style-type: none">• The user will have to fill in the form again2. The user loses access to the internet while filling in the form<ul style="list-style-type: none">• The user has to start from beginning
Specific Requirements	none
Notes	How does the form look exactly? What criteria should be provided?

2. Edit ad

Actor	Registered User
Description	As a registered user I want to be able to edit my ads
Trigger	
Precondition	<ol style="list-style-type: none">1. User has access to the internet2. The user owns an account on the website3. The user knows his e-mail address and password to be able to log in4. The user is logged in5. The user has already placed an ad
Basic Flow	<ol style="list-style-type: none">1. The user moves to the „My rooms“ site2. The user gets an abstract of all his ads3. The user selects the ad he wants to edit4. The user clicks on the „Edit ad“ shortcut5. The system redirects the user to the „Edit ad“ site6. The user changes the information he wants to change7. The user submits the changes8. The system saves the adjusted ad
Alternative Flow	<ol style="list-style-type: none">1. The user loses access to the internet as he adjusts the ad<ol style="list-style-type: none">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	<ol style="list-style-type: none">1. User has access to the internet2. The user owns an account on the website3. The user knows his e-mail address and password to be able to log in4. The user is logged in5. The user has already placed an ad
Basic Flow	
Alternative Flow	
Specific Requirements	
Notes	Where should the shortcut „Delete ad“ be placed? Should the user confirm that he really wants to delete the ad? Should it be possible to delete several ads at once?

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	<ol style="list-style-type: none">1. User has access to the Internet2. The user owns an account on the website3. The user knows his e-mail address and password to be able to log in4. The user is logged in5. The user has already placed an ad6. To be able to manage them, the user needs to have at least one enquiry
Basic Flow	<ol style="list-style-type: none">1. The user moves to the „Enquiries“ site2. The user gets an overview of all his enquiries3. The user either accepts or declines the new enquiries
Alternative Flow	<ol style="list-style-type: none">1. The user neither accepts nor declines an enquiry before its scheduled date<ol style="list-style-type: none">a. Nothing happens
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	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website3. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. User moves to the schedule page2. 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	<ol style="list-style-type: none">1. User has access to the Internet2. The user owns an account on the website3. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. The user searches a promising ad on the Home page or through the Search page by filling in the form2. 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	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website3. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. The user opens his public profile and clicks on „Edit Profile“2. The user gets all the information regarding his profile and is able to edit everything
Alternative Flow	<ol style="list-style-type: none">1. The deletes crucial information from his profile, such as his Username or First name<ul style="list-style-type: none">• 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	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website3. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. The user moves to the "Place an ad" page2. The user fills out the presented form and specifies a buy-out price3. The user submits the ad4. The ad will be placed on the „My advertisements“ list on the My rooms page
Alternative Flow	
Specific Requirements	
Notes	The form must be 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	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website3. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. The user moves to the "Place an ad" page2. The user fills out the presented form and specifies an auction duration and a starting price with the option for an additional buyout price.3. The user submits the ad4. The ad will be placed on the „My advertisements“ list on the My rooms page
Alternative Flow	
Specific Requirements	
Notes	The form must be adapted for auctions. What properties exactly? Do they have to satisfy certain criteria?

2.3. Searcher Use Cases

10. Search for a room (overhauled, see 15.)

Actor	Anyone
Description	Anyone should be able to search for either a flat studio or room. Multiple search criteria can be used to narrow the search results
Trigger	
Precondition	1. The user has access to the internet
Basic Flow	1. The user opens the search menu and fills out all the search criteria 2. After confirmation the results are displayed
Alternative Flow	1. Some information was left blank <ul style="list-style-type: none">An error occurs with the request to fill out the missing elements
Specific Requirements	
Notes	

11. 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	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website3. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. The user searches a promising ad on the Home page or through the Search page by filling in the form2. 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	

12. Send an enquiry

Actor	Registered User
Description	As a registered user I want to enquire a meeting with the advertiser of an ad I'm interested in.
Trigger	
Precondition	<ol style="list-style-type: none">4. The user has access to the internet5. The user has an account on the website6. The user is logged in
Basic Flow	<ol style="list-style-type: none">3. The user searches a promising ad on the Home page or through the Search page by filling in the form4. On the ads site the user can send a timely fixed enquiry to the advertiser by clicking on the "Send enquiry to advertiser" button in the Visiting times frame.
Alternative Flow	<ol style="list-style-type: none">1. The user searches a promising ad on the Home page or through the Search page by filling in the form2. 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	

13. Bookmark an ad

Actor	
Description	
Trigger	
Precondition	
Basic Flow	
Alternative Flow	
Specific Requirements	
Notes	Included in Compile a list of the most promising candidates?

14. 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	
Precondition	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website3. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. The user moves to the "Alerts" page2. The users fills in the search form and clicks on the Subscribe button below the search form
Alternative Flow	
Specific Requirements	
Notes	The active alerts are shown on the alerts page

15. Expanded Search Form (new)

Actor	Anyone
Description	Added new search criteria.
Trigger	Click the search button on the homepage.
Precondition	1. The user has access to the internet
Basic Flow	1. The user opens the search menu and fills out all the required search criteria 2. After confirmation the results are displayed, with the option to search again
Alternative Flow	1. Some information was left blank <ul style="list-style-type: none">An error occurs with the request to fill out the missing elements
Specific Requirements	-
Notes	-

Formatiert: Nummerierte Liste + Ebene: 1 + Nummerierungsformatvorlage: 1, 2, 3, ... + Beginnen bei: 1 + Ausrichtung: Links + Ausgerichtet an: 0.63 cm + Einzug bei: 1.27 cm

Formatiert: Nummerierte Liste + Ebene: 1 + Nummerierungsformatvorlage: 1, 2, 3, ... + Beginnen bei: 1 + Ausrichtung: Links + Ausgerichtet an: 0.63 cm + Einzug bei: 1.27 cm

Formatiert: Aufgezählt + Ebene: 2 + Ausgerichtet an: 1.9 cm + Einzug bei: 2.54 cm

Formatiert: Englisch (Vereinigte Staaten)

Formatiert: Keine Aufzählungen oder Nummerierungen

15.16. [Create search alert \(new\)](#)

Actor	
Description	
Trigger	
Precondition	
Basic Flow	
Alternative Flow	
Specific Requirements	
Notes	Which differences compared to subscribe to alerts ?

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16.17. Search for properties to sale (new)

Actor	Anyone
Description	Anyone should be able to search advertised properties for sale. Multiple search criteria can be used to narrow the search results
Trigger	
Precondition	1. The user has access to the internet
Basic Flow	1. The user opens the search menu and fills out all the search criteria 2. After confirmation the results are displayed
Alternative Flow	
Specific Requirements	
Notes	The search form must be adjusted for this search.

2.4. Other Use Cases

~~17.~~18. 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	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an email account
Basic Flow	<ol style="list-style-type: none">1. The user moves to the "Login" page.2. The user clicks on "sign up" to reach the "sign up" page3. 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 address could be used for the login.

18.19. 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	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website
Basic Flow	<ol style="list-style-type: none">1. The users moves to the "Login" page2. The user fills in his Email and Password and clicks on the "Login" button
Alternative Flow	<ol style="list-style-type: none">1. Visit the advertiser's profile, where his email address is denoted2. Write an email to the advertiser with any email client
Specific Requirements	
Notes	

19.20. 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	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website3. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. The user searches a promising ad on the Home page or through the Search page by filling in the form2. On the ads site the user can visit the advertiser's profile
Alternative Flow	<ol style="list-style-type: none">1. The user moves to "Enquiries" page2. The user can click on the usernames listed in the enquiries
Specific Requirements	
Notes	

20.21. Write Message

Actor	Registered User
Description	As a registered user I want to write messages to other registered users especially to advertisers.
Trigger	
Precondition	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website3. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. The user visits the profile of the desired user and clicks on the "Message button" and the message window opens2. The user adds a subject and a message and clicks on "Send"
Alternative Flow	<ol style="list-style-type: none">1. The user moves to the "Messages" page and clicks on "New" on the left2. 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

21.22. Read Message

Actor	Registered User
Description	As a registered user I want to read the messages other users sent me.
Trigger	
Precondition	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website3. The user is logged in
Basic Flow	<ol style="list-style-type: none">1. The user moves to the "Messages" page and lands directly in the inbox to read and access received messages
Alternative Flow	
Specific Requirements	
Notes	

22.23. Rate User

Actor	Registered User
Description	As a registered user I want to rate users I met as a decision guidance
Trigger	
Precondition	<ol style="list-style-type: none">1. The user has access to the internet2. The user has an account on the website3. The user is logged in4. The user had presentations
Basic Flow	<ol style="list-style-type: none">1. The user moves to the "Schedule" page2. The user clicks on the "See List" button in the Visitors column Below "Your Presentations"3. 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