SOFTWARE REQUIREMENTS SPECIFICATION

for

ESE 2014 Project

Version 0.3

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Contents

Revision History

Version	Date	Revision Description
0.1	07.10.2014	Initial document
0.2	14.10.2014	Transfer to LaTeX
0.3	25.10.2014	Redundant requirements removed, stakeholder added, use cases updated

1 Introduction

1.1 Purpose

This document is the Software Requirements Specification for the ESE 2014 apartment- and shared room search platform project. This software aims to provide a practical and easy to use environment for searching for apartments and shared rooms, as well as placing advertisements for such.

This document is meant for our customer and us, the development team, to deliver a common base and detailed description of all the criteria the software should meet in the end.

1.2 Stakeholders

Bledar Aga, ESE Team 7, students looking for a room to rent

1.3 Definitions

Searcher: A person who wants to find a room in a shared apartment.
Provider: A person who wants to find a person for a room in his/her apartment.

1.4 System Overview

The purpose is to provide a system where a Searcher can find a shared apartment and a Provider can place an ad for a shared apartment.

Our goal is to out beat the market with further methods for scheduling an appointment for visiting a shared apartment.
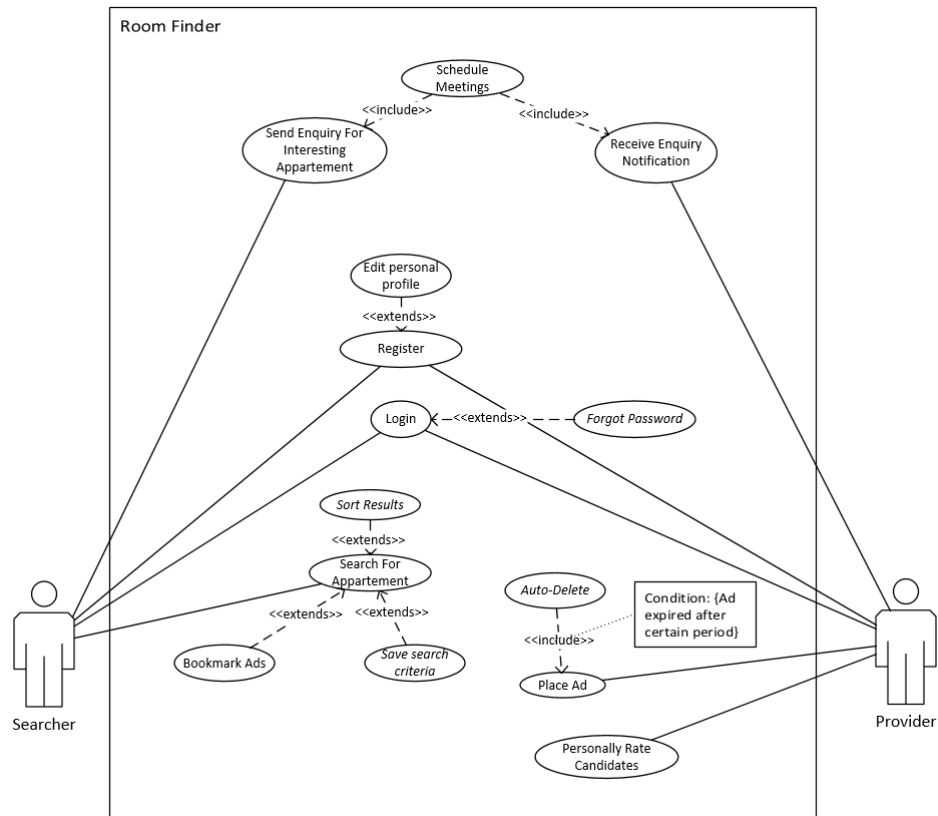
1.5 References

Concerning main functionalities, such as placing an ad and searching for an apartment or shared room, we will take these following websites as examples:

- `www.wgzimmer.ch`

- `www.students.ch/wohnen/`

- `www.tutti.ch/ganze-schweiz/immobilien/wg-zimmer`

We will analyze their features and behavior to filter out good practice and improve their weaknesses.

2 Overall Description

2.1 Use Cases

1. **Send Enquiry For interesting Apartment**

    1.1. **Actors**
    Searcher

    1.2. **Description**
    As a searcher I want to search for a shared apartment, bookmark different options and send enquiries to a provider and schedule appointments with the provider.

    1.3. **Trigger**

Searcher sends enquiry to provider.

1.4. **Pre-conditions**
There are apartment ads placed by providers

1.5. **Post-conditions**
Provider receives enquiry and a notification

1.6. **Main Scenario**
Provider places an ad
Searchers searches and finds ad
Searchers send an enquiry
Provider checks enquiry

1.7. **Alternative Scenarios**
None.

1.8. **Special Requirements**

1.9. **Notes**

2. **Schedule Meetings**

2.1. **Actors**
Provider

2.2. **Description**
As a provider I want to make an ad of my shared apartment, answer to enquiries, rank searchers and schedule appointments with the searcher

2.3. **Trigger**
User checks enquiry inbox.

2.4. **Pre-conditions**
At least one enquiry in inbox.

2.5. **Post-conditions**
Provider schedules an appointment with the searcher or declines enquiry.

2.6. **Main Scenario**
Searcher checks enquiry inbox
One ore more enquiries available
Provider accepts enquiry
Searchers and Provider schedule appointment
After successful interaction the ad is deleted.

2.7. **Alternative Scenarios**
Searcher checks enquiry inbox
One ore more enquiries available
Provider declines enquiry
Enquiry is deleted from inbox

Searcher checks enquiry inbox
No enquiries available
Page shows message "No enquiries pending"

2.8. **Special Requirements**

2.9. **Notes**

3. **Register**

3.1. **Actors**
Searcher
Provider

3.2. **Description**
As a user, I want to create a personal user account.

3.3. **Trigger**
User registers

3.4. **Pre-conditions**
Required information (valid e-mail, Name, Address, etc.) is complete

3.5. **Post-conditions**
User account is created, user is redirected to a relevant page.

3.6. **Main Scenario**
User opens registration page

User fills form and hits send button
User gets to relevant page

3.7. Alternative Scenarios
User doesn't fill in all required fields
User hits send button
Required, empty (or invalid) fields are marked
User enters missing information
User gets to relevant page

3.8. Special Requirements

3.9. Notes

4. Login and forgotten password

4.1. Actors
Searcher
Provider

4.2. Description
As a user I want to log in the system to set my profile settings and organize enquiries.

4.3. Trigger
User logs in

4.4. Pre-conditions
There is a valid profile to log in to

4.5. Post-conditions
User is able to organize enquiries or set/edit profile information.

4.6. Main Scenario
User opens login page
User fills form and logs in
User gets to relevant page

4.7. Alternative Scenarios
User forgot password
User needs to enter correct Email address

User gets Email with reactivation code
User logs in with reactivation code and sets up new password
User gets to his profile page

4.8. **Special Requirements**

4.9. **Notes**

5. **Search For Apartment**

5.1. **Actors**
Searcher

5.2. **Description**
The Searcher, an user that searches for certain types of shared apartments finds ads that match his search

5.3. **Trigger**
Searcher fills in Search Form and Submits

5.4. **Pre-conditions**
There are ads placed that can be browsed.

5.5. **Post-conditions**
Ads that match the search criteria are shown and ready to check out.

5.6. **Main Scenario**
Searcher opens search page
Fills in his relevant criteria
Clicks on "Search"
Is shown relevant ads

5.7. **Alternative Scenarios**

5.8. **Special Requirements**

5.9. **Notes**
When no relevant ads exist, the search page is shown, with a message "No ads found matching your criteria".

6. **Save Search Criteria**

    6.1. **Actors**
    Searcher

    6.2. **Description**
    As a searcher I want to be informed about new ads that are relevant to pre-edited search criteria

    6.3. **Trigger**
    New ad that matches Searcher profiles search criteria is placed

    6.4. **Pre-conditions**
    Searcher has set up his search criteria

    6.5. **Post-conditions**
    Email is sent to Searcher that a new relevant ad has been placed

    6.6. **Main Scenario**
    Provider posts for a certain Searcher relevant ad
    Searcher gets informed by Email that a new promising ad has been placed.

    6.7. **Alternative Scenarios**

    6.8. **Special Requirements**

    6.9. **Notes**

7. **Bookmark ads**

    7.1. **Actors**
    Searcher

    7.2. **Description**
    As a Searcher I want to save certain ads to a personal list

    7.3. **Trigger**
    Searcher finds an ad he wants to be informed about

    7.4. **Pre-conditions**
    There are ads

7.5. **Post-conditions**
Searcher has a bookmark list with relevant ads he wants to be informed about

7.6. **Main Scenario**
Searcher finds interesting ad
Searcher adds ad to his bookmark list

7.7. **Alternative Scenarios**

7.8. **Special Requirements**

7.9. **Notes**

8. **Place Ad and Auto Delete after certain period**

8.1. **Actors**
Provider

8.2. **Description**
As a provider I want to place an ad and manage the period of placement

8.3. **Trigger**
Provider fills in form for ad and submits the form

8.4. **Pre-conditions**
An end date of the ad placement is submitted in the form

8.5. **Post-conditions**
Valid ads are kept in the system

8.6. **Main Scenario**
Provider fills in ad form Provider submits form Ad is placed One week before ad placement end the provider is informed via Email Provider deletes ad or changes end date

8.7. **Alternative Scenarios**
Provider fills in ad form Provider submits form Ad is placed One week before ad placement end the provider is informed via Email Provider doesn't react to Email Ad goes inactive

8.8. **Special Requirements**

8.9. **Notes**

9. **Personally Rate Candidates**

9.1. **Actors**
Provider

9.2. **Description**
As a provider I want to rate interesting candidates (Searchers)

9.3. **Trigger**
Provider accepts enquiry of a searcher

9.4. **Pre-conditions**
The searcher has sent an enquiry

9.5. **Post-conditions**
The provider has a list with ranked interesting candidates

9.6. **Main Scenario**
A Searcher sends an enquiry
Provider Accepts
Provider ranks Searcher

9.7. **Alternative Scenarios**
None

9.8. **Special Requirements**

9.9. **Notes**

10. **Edit Profile**

10.1. **Actors**
Searcher
Provider

10.2. **Description**
User logs in and is able to edit or update his or her profile.

10.3. **Trigger**
User logs in.

10.4. **Pre-conditions**
There is a valid profile for said user

10.5. **Post-conditions**
The profile edits or updates are saved

10.6. **Main Scenario**
The User gets to his profile page
The user gets into editing mode of the profile information's
The user saves the changes

10.7. **Alternative Scenarios**
The user gets to his profile page
Edits profile
Closes without saving
No changes are saved

10.8. **Special Requirements**

10.9. **Notes**

3 Specific Requirements

3.1 Functional Requirements

- The ad content has certain limits (Description letter limit, Pictures size limit).
  The ad form has some spaces that cannot be left empty.

- Users have a login, where they get to organize enquiries, rankings and bookmarks.

- Searcher gets informed when new ads are placed that matches his set up sear

- Social Media linkable

- Posibility to buy a better ranking

3.2 Non-Functional Requirements

- The system delivers a UI that makes the main features easily accessible to every user with basic PC experience, with no need for further training.
  The application is usable on all platforms and display sizes because responsive webdesign is used (twitter bootstrap).

- The performance is good enough to make mobile usage possible.

- The user data is kept confidential and not passed on to third parties.

- The usage of the application is completely free of charge for both the provider and the searcher.

- The most frequently used features (such as bookmarking an object while looking at its profile) are accessible by just one click.

- Both database structure and usage are designed to ensure data consistency.