

Project Requirements

Project Name: Tutor Negotiating

Team: ese2015-team7

Customer: Niklaus

v. 02

Revision History

Version	Date	Revision Description
.01		
.02		
..		
1.0		

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Introduction

1 Purpose

This document is a description of the platform to be developed, laying out functional and non-functional requirements, and includes a set of use cases that describe interactions the users will have with the software we're building.

2 Stakeholders

- Students
- Tutors
- Customer Niklaus
- ese2015-team7

3 Definitions

4 System overview

The system provides services to sign up and login. When signing up, there's no difference between signing up as a student or tutor. Both user types have to fill in basic information like name, password, email and user name. It should also be possible to extend basic- with optional information like profile picture, short biography, grades, current semester and available time slots.

Once logged in, a selection based search can be done to find matching tutors. There are two types of searching: basic search and specific search. For basic search, the user first selects a university, then a subject and finally a lecture. This will list all tutors offering their help regarding the selections. The specific search mode extends basic search with grades and available time slots selections.

If a student finds a tutor he wants to get in touch with, he contacts the tutor by sending a request. The tutor then can accept and pays a fee for the contact information (like an e-mail-address or a phone number). Payment can be a monthly fee (that starts from the first engagement) or just a single fee for every contact engagement. There is no other communication possible (like a built-in communication system).

Students who got in touch with tutors should have the possibility to rate them. Due to this rating system, students can choose more reliable between several tutors regarding their rating.

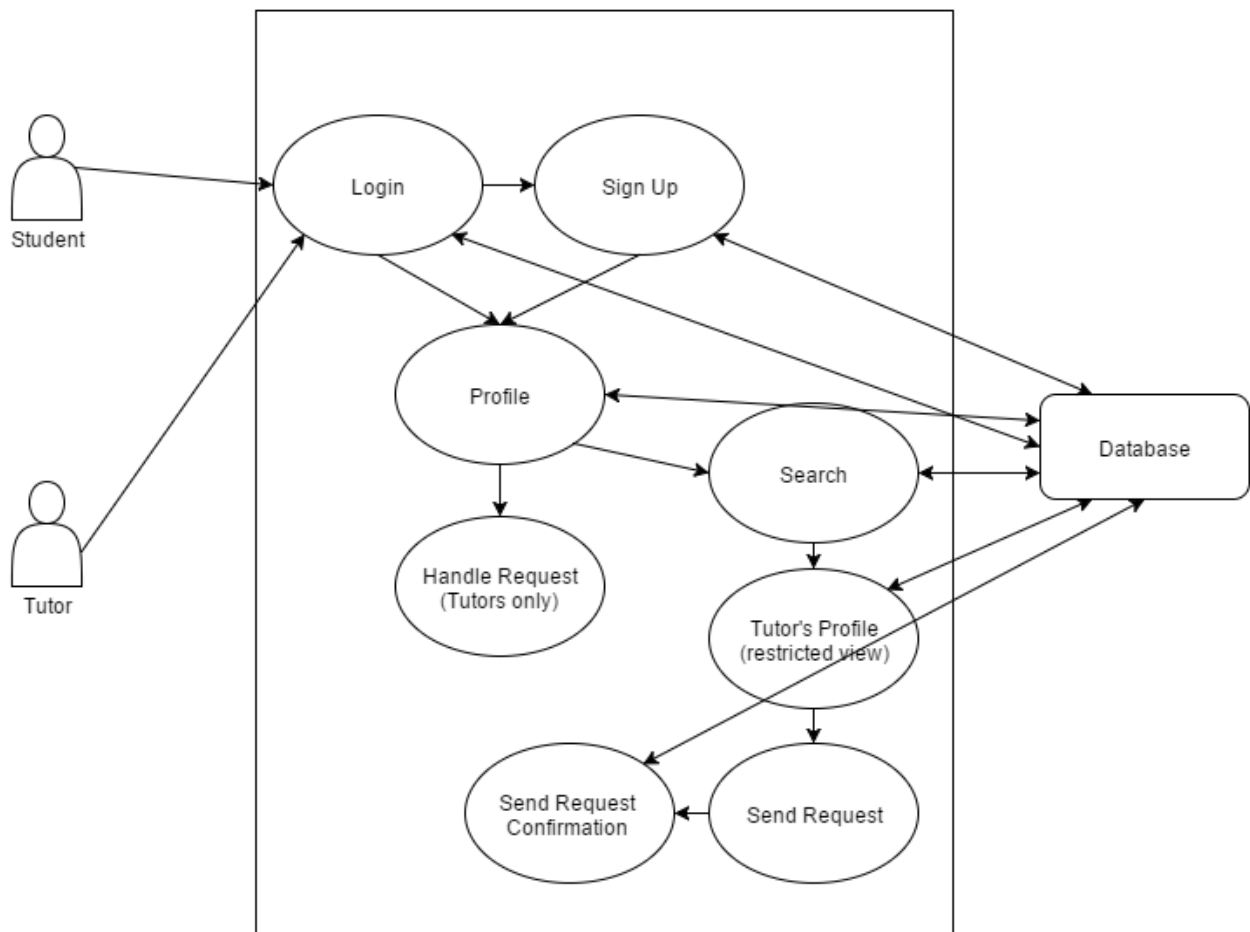
5 References

Here are some links to existing portals (too generic ones) our customer mentioned.

- <https://tutor24.ch>
- <http://www.nachhilfe-vermittlung.ch>
- <http://owltutors.ch>

Overall description

A. Diagram



B. Use cases

List of Use cases:

1. Create Profile (Student/Tutor)

1.1. Actors

Customer (Student/Tutor)

1.2. Description

As a Customer I want to create a new profile/account to use your services

1.3. Trigger

Click on the sign-up button

1.4. Pre-conditions

Customer has a valid email-address

Customer gives a not yet used Username

1.5. Post-conditions

A new profile/account is created in the database with the given information

Validation email is sent to the given email-address

1.6. Main scenario

Customer clicks on the sign-up button

Customer enters his information

System checks validity of email-address

System checks validity of Username

System sends a validation email to the given email-address

A new profile/account is created in the database with the customer's data

1.7. Alternative scenarios

1 Given email-address is not valid

3.1.2. System will prompt customer to enter a valid email-address

3.1.3. User gives a valid email-address

3.1.4. Use case resumes on step 4

4.2. Given username is already in use

4.2.1. System will prompt customer to enter a different username, stating that the given username is already in use

4.2.2. User gives a valid username

4.2.3. Use case resumes on step 5

1.8. Special requirements

1.9. Notes

1. What is the maximum amount of characters used for username?

2. Are there any special conditions on the username, e.g. at least one number, or at least one capital letter?

2. Login

2.1. Actors

Customer (Student/Tutor)

2.2. Description

As a Customer I want to log in to the page.

2.3. Trigger

Customer clicks on login.

2.4. Pre-conditions

1. Customer has an account.

2.5. Post-conditions

1. Customer is at the Home-Page.

2.6. Main scenario

1. System requests User – Information
2. Customer enters user-name/e-mail
3. Customer enters user-password (*****)
4. Customer presses login button
5. System verifies valid user-account
6. System loads Personal-Home-Page

2.7. Alternative scenarios

- 2.1. Wrong or/and incomplete login information
 - 2.1.1 Customer enters wrong or/and e-Mail/Username or/and password
 - 2.1.2 Customer presses login button
 - 2.1.3 System requests valid account-information
 - 2.1.4 Scenario continues at step 1
- 1.1. Extra Steps for validation of account
 - 1.1.1. System requests User – Information
 - 1.1.2. Customer enters user-name/e-mail
 - 1.1.3. Customer enters user-password (*****)
 - 1.1.4. Customer presses login button
 - 1.1.5. System checks account and requests validation
 - 1.1.6. Customer enters validation-code
 - 1.1.7. System validates account
 - 1.1.8. System loads Welcome-Page

2.8. Special requirements

2.9. Notes

3. Search and Contact Tutor

3.1. Actors

Customer (Student)

3.2. Description

As a Customer I want to find a tutor in a specific course at a specific university in a specific subject.

3.3. Trigger

Customer clicks on the search box.

3.4. Pre-conditions

1. Customer has a validated account
2. Customer must be signed up
3. Customer must be logged in

3.5. Post-conditions

1. Customer receives Mail with confirmation of his request.
2. Tutor gets a request from the Student

3.6. Main scenario

1. The Customer chooses his university
2. The customer chooses his subject
3. The customer chooses his course
4. The customer clicks the search button
5. System prompts customer to choose one tutor out of a list of all possible tutors
6. User chooses a tutor and presses "new request"
7. the customer presses "send request".

3.7. Alternative scenarios

- 4.1. Incomplete search information
 - 4.1.1 Customer presses Search button, before having chosen a course
 - 4.1.2 System prompts request of missing information.
 - 4.1.3 Scenario continues at step 1

3.8. Special requirements

Customer should not be able to search classes he teaches as well. (why not?)

3.9. Notes

4. Tutor handles Student request

4.1. Actors

Customer (Student) - Student
Customer (Tutor) - Tutor

4.2. Description

A Tutor receives a request from a student and accepts or rejects the request.

4.3. Trigger

Student sends request to tutor.

4.4. Pre-conditions

1. Both Customers have a validated account.
2. Tutor must be signed up
3. Tutor must be logged in

4.5. Post-conditions

1. Student gets informed whether the tutor accepted him (with contact info) or not
2. In case Tutor accepts the request, he/she gets the student's contact information after valid payment

4.6. Main scenario

1. Tutor gets request on Home-Page.
2. Tutor presses on the new anonymous request
3. System loads the new anonymous request
4. Tutor presses "accept" and reveals the username of the student
5. System initiates payment
6. System deletes requests
7. System notifies Student

4.7. Alternative scenarios

- 4.1. Tutor rejects the request
 - 4.1.1. Tutor presses "reject"
 - 4.1.2. System deletes request
 - 4.1.3. System notifies Student by email

4.8. Special requirements

4.9. Notes

5. Open Profiles of Tutors

5.1. Actors

Customer (Student) - Student
Customer (Tutor) - Tutor

5.2. Description

As a Student I want to see the profile of the Tutor to decide if I want to contact him

5.3. Trigger

Student clicks on the name of the tutor in search

5.4. Pre-conditions

1. Student must have used the search engine to find the name of the tutor
2. Student must be signed up
3. Student must be logged in

5.5. Post-conditions

1. Student sees the profile of the Tutor

5.6. Main scenario

1. Student clicks on the name of a Tutor
2. System loads the profile of the Tutor

5.7. Alternative scenarios

- 2.1. System produces error while loading the profile of the Tutor
 - 2.1.1. System produces error while loading the profile of the Tutor
 - 2.1.2. System creates a message describing the error and prompting the Customer to refresh

5.8. Special requirements

5.9. Notes

6. Payment Procedure

6.1. Actors

Customer (Tutor) - Tutor

6.2. Description

As a Tutor I want to pay the fee to unlock the contact information of the students

6.3. Trigger

Tutor clicks to pay the fee

6.4. Pre-conditions

1. Tutor has received a request
2. Tutor must be signed up
3. Tutor must be logged in
4. Tutor must have a valid payment method
5. Tutor's payment method must have enough credit for the transaction

6.5. Post-conditions

1. The fee is paid
2. The contact information of the students is unlocked

6.6. Main scenario

1. Tutor receives a request
2. Tutor clicks to pay the fee
3. System prompts for payment information
4. Tutor enters his payment information
5. System validates the payment information
6. System makes the transaction
7. The fee is paid
8. System sends a confirmation to the Tutor

6.7. Alternative scenarios

- 4.1. Tutor enters invalid payment information
 - 4.1.1. Tutor enters invalid payment information
 - 4.1.2. System finds the payment information invalid
 - 4.1.3. System prompts for valid information
 - 4.1.4. Scenario continues at step 3
- 5.1. Payment method of Tutor does not have enough credit
 - 5.1.1. System validated the insufficiency of Tutor's payment method
 - 5.1.2. System displays a message with the information
 - 5.1.3. System prompts for another payment method
 - 5.1.4. Scenario continues at step 3
- 6.1. System fails to make the transaction
 - 6.1.1. System tries to make the transaction and fails
 - 6.1.2. System backrolls
 - 6.1.3. System displays a message with the error information
 - 6.1.4. System prompts to try again
 - 6.1.5. Scenario continues at step 3

6.8. Special requirements

6.9. Notes

Specific requirements

(define all the [functionalities](#) that your application needs to fulfil the scenarios described in section 2)

1 Functional requirements

- 1) The web portal allows everybody to create a profile (sign up) by requesting a **name**, an **e-mail-address**, a **password** and a **username**. Note that the only available information to the public is the username.
- 2) Once a user has signed up, the web portal allows him to login either with his **username** or **e-mail-address** and his **password**. If the login-data are entered correctly and the login button is clicked on, the user will be forwarded on to his personal profile.
- 3) Users are able to **extend their personal profile** with optional information as for instance a profile **picture**, a short **biography**, their **grades**, the current **semester** they are studying in as well as information about **time slots** available for tutoring.
- 4) To search for a tutor, a student can start a **basic search**: with the first dropdown-field the required institution (i.e. the **university**), with the second one the **subject** and with the third dropdown-field the respective **lecture** can be selected. Once these three search features are defined and the student clicks on the “search” button, the web portal will check the databases for **suitable tutors**.
- 5) In order to narrow a search down, the **specific search function** can be used: the student can select the minimum required **grade** the tutor should have achieved. Additionally, the student can specify his or her preferred **time slots** for receiving the tutoring session(s).
- 6) To **protect the privacy** of the tutors, only the two above-mentioned search options exist. A user cannot search for real names or for an e-mail-address.
- 7) The **search result** shows a list of all the **matching tutors** including the following information:
 - The **username** (linked directly to the tutors` profile),
 - The grades of the tutor (if indicated) and
 - a “**new request**”-button for each tutorIf no matching results are found, the following **error message** appears: “we are sorry to inform you that no tutor is available for the lecture you searched for”.
- 8) If at least one tutor is found, the student can click on the “**new request**”-button next to the username. Our portal will hereupon send automatically a **request-message** to the respective tutor.
- 9) The tutor then receives this anonymous request-message on his individual profile and can either click the “**accept**”- or the “**reject**”-button.
- 10) If the tutor has already paid the monthly fee, he can click the “accept”-button without having to pay additional fees. In any other case, the system prompts him to select between two payment options: Either a monthly or an individual fee. Whenever payments have been made, the tutor receives the contact information of the student or he receives the confirmation that he did not accept the request of this student.

2 **Non-functional requirements**

(external, performance, etc.)

Product requirements:

- 1) Users need to have **access** onto the web portal **from different platforms** (Windows, Mac, Smartphones, Tablets, and so forth).
- 2) **Data** needs to be stored **on the server**, users can only access them with a server request for the web portal.

Company requirements:

- 3) The development of the web portal will be organized and executed on the platforms **Trello** and **GitHub**. The developers and the clients need to have access to these two sources at any time.
- 4) The progress of the development process and the state of the requirements will be checked and evaluated every week in **a scrum standup meeting** or in a more specific meeting. This protects us from doing unnecessary work and guarantees that developers and customers are on the same page.

Safety requirements

- 5) The developers and the clients have to **protect the personal data** of the users. Each party is doing so to the best of their knowledge and belief.