

Project Requirements

Project Name: “Student-Tutor Meeting-Point

Team: 5

Customer: Mario Kaufmann

Revision History

Version	Date	Revision Description
.01	07.10.15	Created
.02		
..		
1.0		

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Date: October 6, 2015

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1. Introduction

1.1 Purpose

The purpose is to build a platform for university students who want to prepare for a specific exam. The focus lies hereby on very specific matching criteria for student to find and connect with a tutor who has sufficient knowledge to support to support the student.

1.2 Stakeholders

1.2.1 Users

A user can either be Student, Tutor or both.

- Students need to prepare for an exam. Over the website he is looking for a experienced person that able to help him/her prepare. They get paid for their support on an hourly basis.
- Tutors offer their expertise to students.

1.2.1. Platform

Offers a searching to user to find an appropriate partner for exam preparation and connect with him/her. The platform requires a provision for a successfully realised partnership.

1.3 Definitions

1.4 System overview

Through the website users can register and create a profile. Specification in the profile determines whether the user is a student, a tutor or both. According to that the user data will be stored in a database. Students can access this database via searches and filters to find a tutor that fits their needs. In further steps they can exchange information and plan next steps through a messaging system.

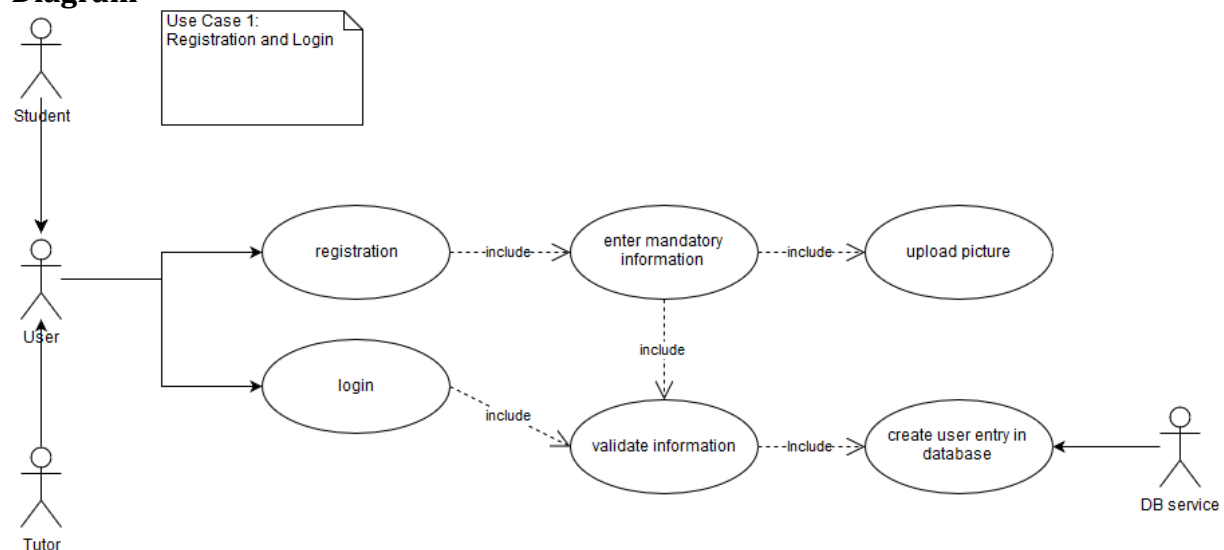
1.5 References

2. Overall description

2.1 Use cases

2.1.1 User Registration

Diagram



Actors

User
Student
Tutor
Database Service

Description

As a user I want to register my personal information in the system to create a profile.

As a user I want to login to the website to use the platforms services.

As a database service I want to receive the users' information and create a user entry in the database.

Trigger

User visits the website.

Pre-conditions

Registration: User has to enter valid user information

Registration: User has to be an active or former university student

Login: User must be registered

Post-conditions

Registration: User receives an account and is able to log in.

Registration: User cannot proceed to service website

Login: User bypasses login mask and can use the systems services

Login: User is refused and cannot proceed.

Main Scenario

User visits website.

User chooses login or registration.

2.1 If user chooses to log in he enters his login information and proceeds to service platform

2.2 If user chooses to register he proceeds to the register form

2.2.1 User enters his authentication and profile information

2.2.2 Database Service creates user entry in database

2.2.3 User is redirected to welcome screen

Alternative Scenarios

2.1a. Login information can't be found in database

2.1a.1 System will prompt that the users can't be found

2.1a.2 System offers retry or registration

2.2.1a Users entry doesn't fit the constraints for database entries or the profile already exists

2.2.1a.1 System will prompt message related to error

2.2.1a.2 System offers retry

Special Requirements

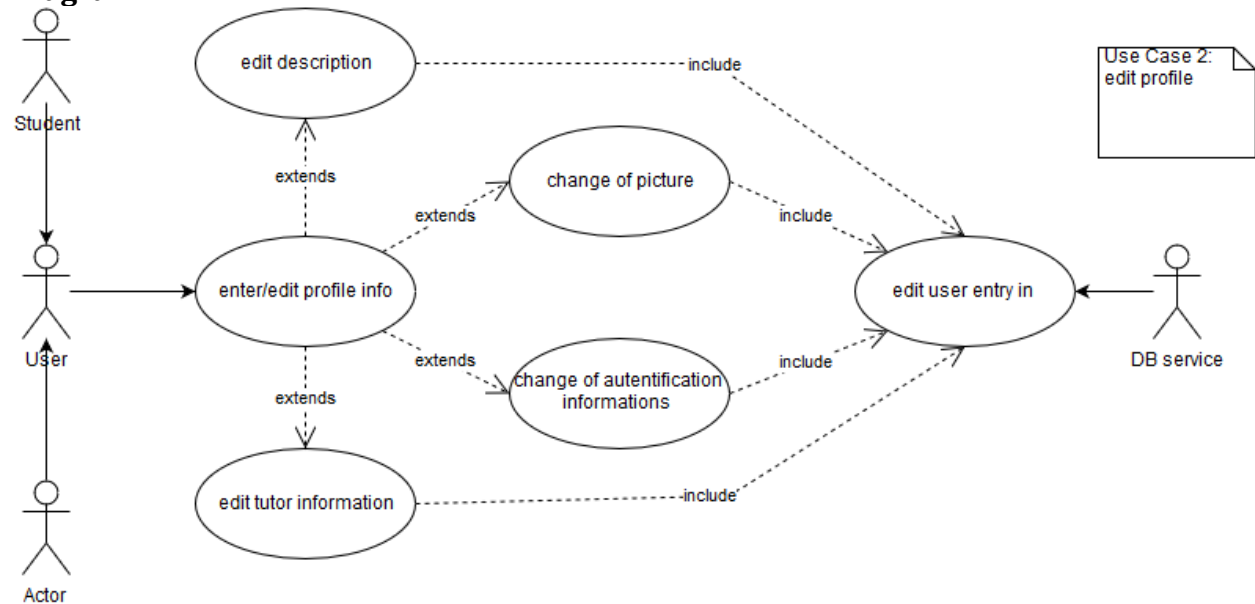
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Notes

Mandatory information to register an account on the website is: Full name, Email, Picture.

2.1.2 Edit profile

Diagram



Actors

User
Student
Tutor
Database Service

Description

As user I want to edit the information that is displayed on my profile.
As tutor I want to add or remove courses that I am able to tutor.

Trigger

User wants to change the information that is changed on his profile and enters the editing section.

Pre-conditions

User is already registered with an account on the website.

Post-conditions

The desired information has been changed and saved in the system.
The desired tutor courses have been added to the users profile.

Main Scenario

1. User goes to profile page
2. User uses edit button
3. Website loads site to enter altered information or choose new tutor courses.
4. User confirms
5. System validates the new information
6. System saves new information in database
7. User gets redirected to his edited profile.

Alternative Scenarios

- 3a. User wants to add or edit tutor courses

- 3a.1 User can add new courses through an input box, searching for existing courses
- 3a.2 User chooses
- 3a.3 User can add his grade to new course
- 3a.4 Use Case returns to Step 4.

5a. Entered information has an error

- 5a.1 System will inform the user that it was unable to perform the changes
- 5a.2 System will prompt user to edit valid information
- 5a.3 Use case resumes on step 3

Special Requirements

Edited information needs to be checked. It needs to be valid (e.g. Email Address in valid form), and cannot result in any conflict with already existing data (e.g. would duplicate an existing user).

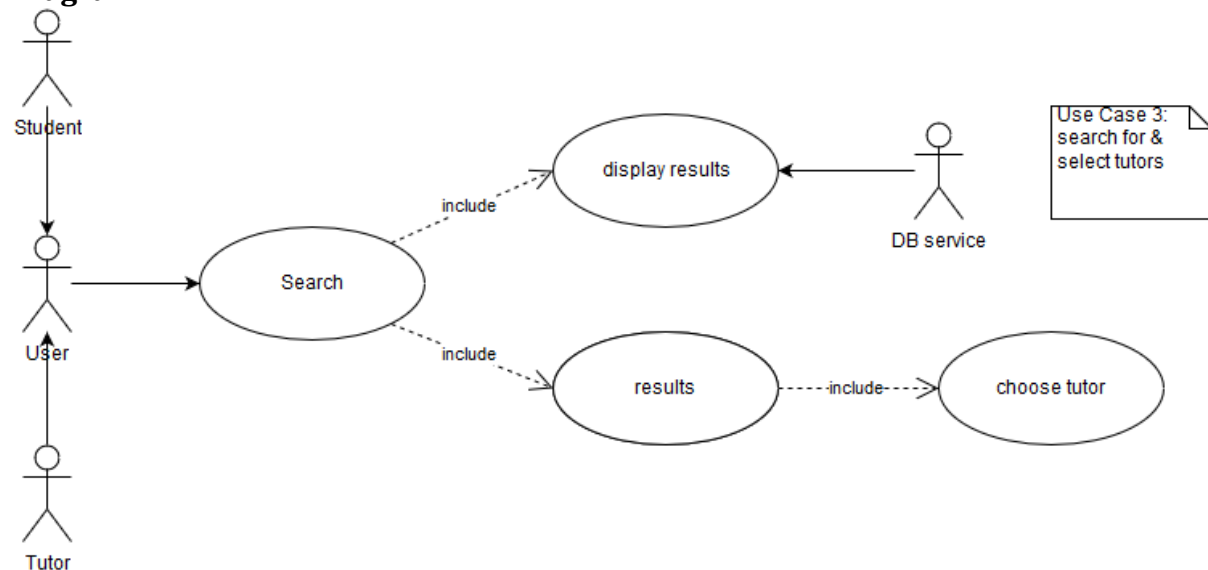
Notes

Are users allowed to change their name?

How do we define a list of possible courses? Unite courses?

2.1.3 Search and select tutor

Diagram



Actors

User
Student
Tutor
Database Service

Description

As a user I want to search and browse tutors according to my needs.

As a user I want to choose a tutor from the search results.

As a database service I want to receive the users search request and provide him with matching information from the database.

Trigger

User initiates a search for tutors.

Pre-conditions

-

Post-conditions

User can visit a tutors' profile.

Main Scenario

1. User initiates search.
2. Database service provides search results.
3. User chooses a tutor.
4. User visits the tutors' profile.

Alternative Scenarios

3a If the search conditions offer no results in the database, the DB-Service can't show any results to the user.

- 3a. The user has to start a new search with different criteria
or
- 3a. The user has to abort the search

Special Requirements

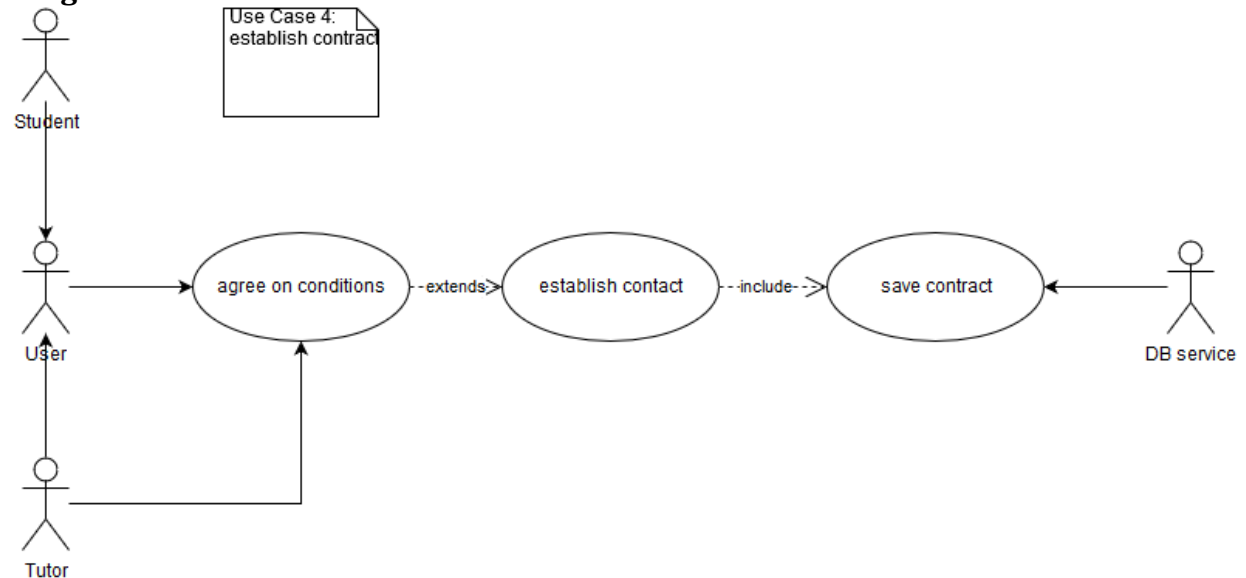
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Notes

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2.1.4 Establish contract

Diagram



Actors

User
Student
Tutor
Database Service

Description

As a searching user I want to frame my personal conditions with my tutor to find an agreement.
As a service-offering tutor I want to frame my personal conditions with my student to find an agreement.
As searching user and as tutor I want to establish a contract with my counterpart.
As DB-Service I want to save the agreement as an entry in my database.

Trigger

Searching User messages tutor that was selected from list.

Pre-conditions

There must exist a possible candidate, that the user might be interested in.

Post-conditions

There will exist a record of the agreement in the database.

Main Scenario

1. User and Tutor agree through messaging on working together.
2. They notify the database service about the contract specifics.
3. The contract is served as a new entry in the database.

Alternative Scenarios

- 1.a The parties can not agree on conditions
 - 1.a User starts a new search for another tutor
 - or
 - 1.a User ends the search
- 2.a Contracts specifics are impossible (or against guidelines)
 - 2.a Contract has to be rephrased
 - or
 - 2.a Return to messaging or search

Special Requirements

-

Notes

There will be a calendar or timetable in the tutors description to make it easier for the parties to agree on a meeting time.

2.2 Actor characteristics

Students want find a tutor according to his needs.

Tutors want to teach specific courses for payment.

User is the generalization of students and tutors.

Database-Service manages searches and edits in the database.

3. Specific requirements

3.1 Functional requirements

Users must be able to register an account log into the system.

Users must be able to edit his profile.

Users must be able to configure the courses he wants to tutor and display his hourly rate and time frames of availability.

Users must be able to search for tutors according to his needs and examine his profile.

Users must be able to communicate via the platform.

Users must be able to establish a tutor-student connection.

3.2 Non-functional requirements (external, performance, etc.)

Behind the scenes Database.