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Chapter 1

Use case

1.1 Unidentified user

1.1.1 Overview

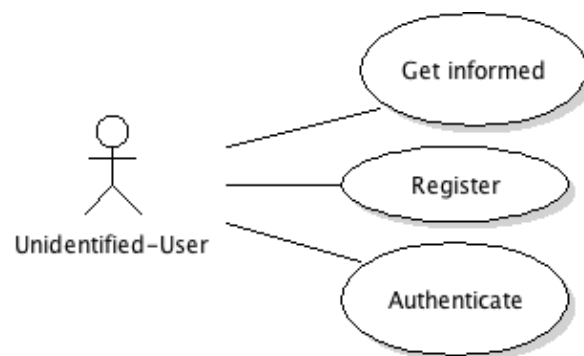


Figure 1.1: Unidentified user Use Case : Overview

1.1.2 Get informed

An unidentified user gets inform about the platform.

1.1.3 Register

An unidentified user who wants to access to the features of the platform has to register first.

1.1.4 Authenticate

An unidentified user authenticates to have access to the features is already registered.

1.2 Student

1.2.1 Overview

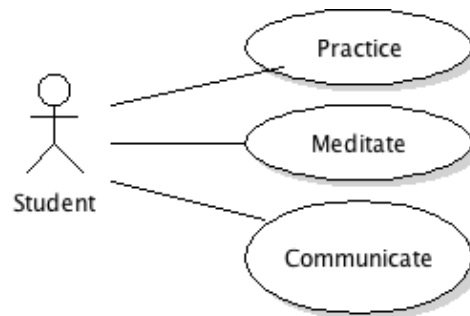


Figure 1.2: Student Use Case : Overview

1.2.2 Practice

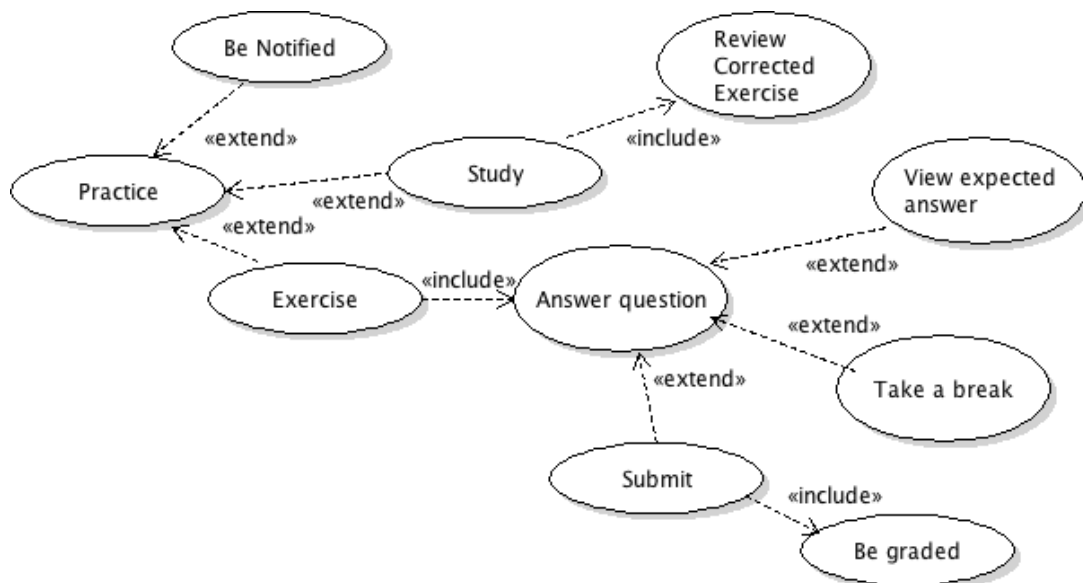


Figure 1.3: Student Use Case : Practice

Be notified

The student is notified for new events.

Study

The student studies by reviewing corrected exercises.

Exercise

The student exercises by answering questions

Answer question

The student answers a set of question.

View expected answer

The student has optionally access to the corrected version.

Take a break

The student takes a break and resume the exercise later.

Submit

The student can submit his answer form.

Be graded

The student is also graded by the platform AFTER he submits his answer form.

1.2.3 Meditate

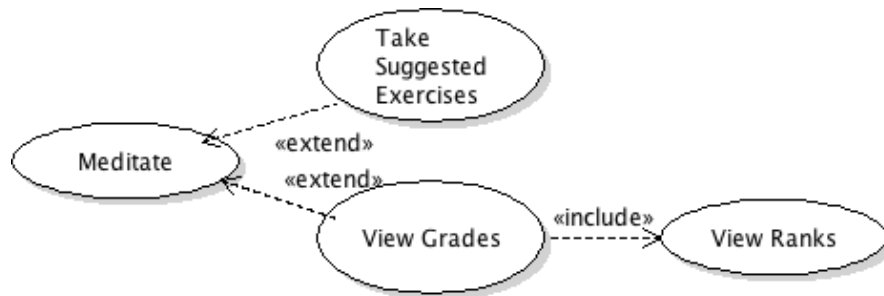


Figure 1.4: Student Use Case : Meditate

Take suggested exercises

The student access and starts a set of exercises according to their grade.

View Grades

The student can see their grade for each exercises.

View Ranks

The student can compare himself with other students.

1.3 Teacher

1.3.1 Overview

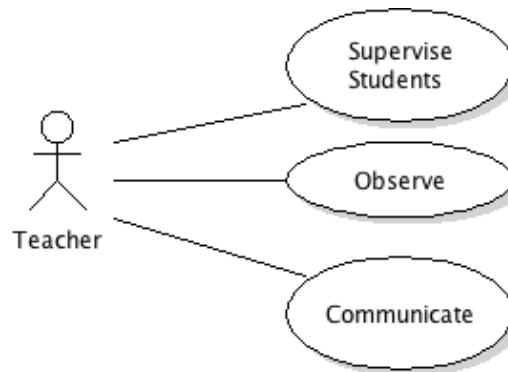


Figure 1.5: Teacher Use Case : Overview

1.3.2 Supervise students

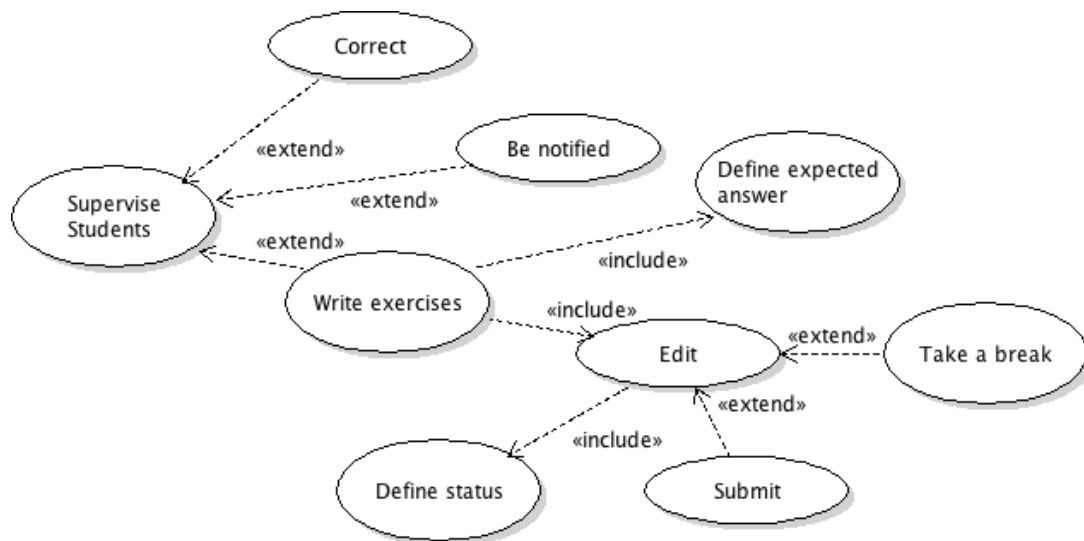


Figure 1.6: Teacher Use Case : Supervise students

Correct

The teacher has to grade students answers for questions which have no expected answers.

Be Notified

The teacher will be notified of events. For instance the teacher will be notified when one of his exercises is online.

Write exercises

The teacher supervises his students by writing exercises.

Define expected answer

When the teacher writes exercises, he can optionally define an expected answer.

Edit

The teacher can edit any exercise at anytime.

Define Status

The teacher attaches a status to an exercise.

Take a break

The teacher can resume his exercise later.

Submit

The teacher submits his exercise which can be viewed by student according to the exercise status defined by the teacher.

1.3.3 Observe

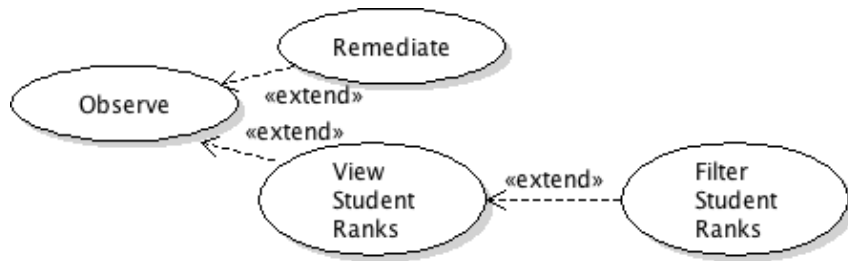


Figure 1.7: Teacher Use Case : Observe

Rank

The teacher sees all the grades of students who took his exercises.

Filter

The teacher can filter the grades according to some parameters. The parameters can be the identifier of a group, the year for instance.

Remediate

The teacher can provide exercises for a group of students in trouble with some specific subject of the course according to their grades.

1.4 Administrator

1.4.1 Overview

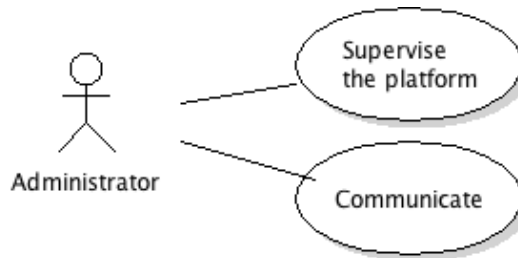


Figure 1.8: Administrator Use Case : Overview

1.4.2 Supervise the platform

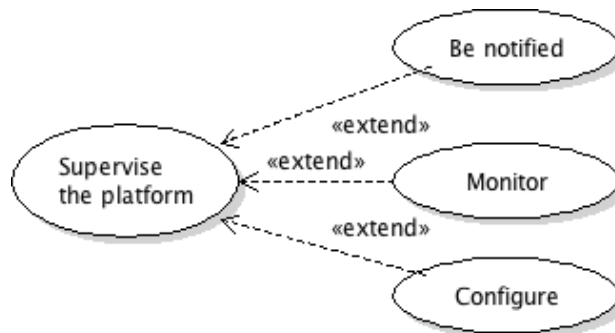


Figure 1.9: Administrator Use Case : Supervise the platform

Be notified

The administrator will be notified by events such as critical issue.

Monitor

The administrator inspects the log.

Configure

The administrator configures the platform.

1.5 Common registered user

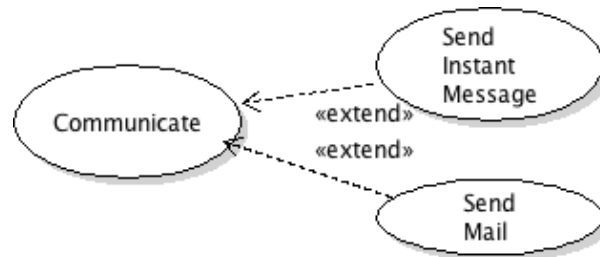


Figure 1.10: Registered user Use Case : Communicate

1.5.1 Communicate

Send Mail

Identified user communicate by mail exchange.

Send Instant Message

Identified user communicate by instant message exchange.

Chapter 2

Dynamic analysis

Chapter 3

Static analysis

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