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# **Scenarios and test data for LMS procurement**

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## 1 Introduction

This document is intended to inform chosen Tenderers about practical issues and different scenarios that will be included in the usability evaluation, also what the Tenderer needs to prepare in their service.

## 2 Practical information about the tests

The Tenderer presents the system for the test participants for 1 hour as an introduction to the system and relevant functions.

The premises where this will be done will be at KTH Campus, Osquars Backe 31, Stockholm.

If the Tenderer is unable to attend the introduction then an online introduction can be done via our available systems at KTH. After the introduction the test team which consist of at least 2 (two) people per role: Teacher, Course Administrator, Course Assistant and Student will execute the tests. The Tenderer shall not participate in the tests but it is recommended that the Tenderer is available by phone during the tests if problems occur.

Usability tests of systems are planned week 46 and 47. Invitation to presentation of system and test start date will be sent on separately e-mail about one week before test date. The Tenderer shall confirm availability not later than date stated in the e-mail.

The Tenderers shall provide all login credentials 1 workday before the tests starts to verify availability.

All communication and questions regarding Usability tests must be posed via the "question and answer function" in TendSign.

## 3 Tenderer's preparation of test data

The Tenderer shall prepare the service as described below.

Since different services are designed in different ways, it is the Tenderer who decides how the service is configured to enable the usability test with the scenarios (see chapter Scenarios below).



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The Tenderer can adjust the needed functions/features for the usability test, but it should be possible for KTH to turn on all functions/features for the expert evaluation.

The Tenderer is responsible for, and ensures, that the scenarios can be executed based of how they have configured and included test data in their service.

It is described in the scenarios which terminal the tests shall be performed on; computer, tablet or smartphone.

### 3.1 Login

Login to the service must be possible for the following roles:

- Teacher
- Course Administrator
- Assistant
- Student

The permissions must be set for each role so that the scenarios can be tested (see chapter Scenarios below).

The following named persons (with the corresponding roll) should be able to log in to the service:

- Teacher 1: Erik Andersson
- Teacher 2: Maria Johansson
- Course administrator 1: Margareta Karlsson
- Course administrator 2: Anders Nilsson
- Assistant 1: Johan Eriksson
- Assistant 2: Kristina Larsson
- Student 1: Karin Persson
- Student 2: Alexander Olofsson

All the named persons shall have access to the courses "SF1600 Autumn 15" and "SF1700 Autumn 14" and a number of other courses which also are included in the service (see Courses / Course Rounds below).

### 3.2 Courses/ Course rounds

Two courses/ course rounds with the following names:

- SF1600 Autumn 15
- SF1700 Autumn 14

Plus 10 other courses with optional names and optional content.

### 3.3 Students on the course "SF1600 Autumn 15"

A total of 81 students included as below:



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- Student 1: See name under chapter Login above
- Student 2: See name under chapter Login above
- Student 3: Maria Karlsson
- Student 4: Per Larsson
- Student 5: Vera Pihl
- and 76 more students with optional names,

### 3.4 Course content for "SF1600 Autumn 15"

#### 3.4.1 Pages

- "Textbook template" (Scenario 3)
- Plus at least the following pages/content to provide an adequate course outline:
  - Course registration
  - Seminars
    - Seminar tasks
      - that lists tasks: Seminar 1 - Seminar 6 (can eg be a link to the corresponding document, see chapter Documents below)
    - Seminars for reregistered
- Previous exams
- Recommended data
- Exam
- FAQ
- Special needs
- Lecture Plan
- Teachers

#### 3.4.2 Documents

The documents shall be named as below, but the file format is optional:

- Seminar 1
- Seminar 2
- Seminar 3
- Seminar 4
- Seminar 5
- Seminar 6

#### 3.4.3 Assignment with name "Assignment 1" (Scenario 4, 5 and 7)

- 70 students have submitted their assignment by uploading a document where:
  - 47 students are corrected and graded according to:
    - 35 students have passed (including "Student 1")



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- 12 students have failed
  - 23 students are not corrected (including "Student 2", "Student 3", "Student 4" and "Student 5")
- 11 students have not submitted their assignments

#### **3.4.4 Assignment with name "Assignment 2" (Scenario 8)**

Assignment 2 shall be open for submission with the option to upload files.

#### **3.4.5 Activity with name "Lab 1" (Scenario 4 and 7)**

Lab 1 shall have the following results:

- 42 students have passed
- 18 students have failed (including "Student 1")
- 21 students have not completed the lab

### **3.5 Students on the course "SF1700 Autumn 14"**

The course can have an optional number of students. The following students should be included:

- Student 1: See name under chapter Login above
- Student 2: See name under chapter Login above

### **3.6 Course content for "SF1700 Autumn 14"**

#### **3.6.1 Pages**

- "Textbooks" (Scenario 3)
- Plus at least the following pages/content to provide an adequate course outline:
  - Course registration
  - Previous exams
  - Lectures
  - Exercises
  - Recommended assignments
  - Exam
  - FAQ
  - Mathematics Jour
  - Teachers

#### **3.6.2 Documents**

The documents shall be named as below, but the file format is optional:

- Exercise 1



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- Exercise 2
- Exercise 3



## 4 KTH preparation of test data

KTH prepare that the following files are stored locally on the desktop of the computer that will be used for the tests:

- Text documents (Scenario 3 and 8):
  - Further reading.pdf
  - Task 2 version 1.pdf
  - Task 2 version 2.pdf
- Picture (scenario 3):
  - Picture 1.jpg

## 5 Scenarios

The test person will perform the scenarios described below.

In the scenarios the test person is free to decide about details such as e.g. settings not specified in the instructions.

### 5.1 Scenario 1 - Establish Laboratory groups

#### 5.1.1 Prerequisites

Logged into the LMS service: Course administrator 1 (see chapter Login above).

Terminal: Computer

#### 5.1.2 Objective

The course administrator has created lab groups where students are distributed between the groups (according to chapter Instruction below).

#### 5.1.3 Instruction

1. Divide the students in the course "SF1600 Autumn 15" into lab groups of maximum 15 students and name the lab groups Aut15Group1, Aut15Group 2, etc. Try to fill the groups with as many students as possible. The last group may have fewer students.
2. You realize that you want to redistribute students between the groups. Move one person from each group to the group with the least number of participants.





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## 5.2 Scenario 2 - Create auto-correcting quiz

### 5.2.1 Prerequisites

Logged into the LMS service: Course administrator 1 (see chapter Login above).

Terminal: Computer

### 5.2.2 Objective

The course administrator has created an auto-correcting quiz (according to chapter Instruction below).

### 5.2.3 Instruction

Create an auto-correcting quiz for course "SF1600 Autumn 15" named "Two basic questions". The quiz shall be set up as follows:

- it is non-anonymous
- it gives 1 point for completely correct answer to a question
- it is time-limited to 5 minutes
- the student gets two attempts to make the quiz
- 50% of the maximum points are needed to pass the quiz.

The quiz shall include the following two questions, a single choice and a multiple choice question:

1. Have KTH a definition for e-learning?

Answer:

- ☐ Yes (correct answer)
- ☐ No (wrong answer)

2. Which of the following systems were evaluated during 2014-2015?

Answer:

- ☐ Course Web (wrong answer)
- ☐ Artologik Survey and Report (wrong answer)
- ☐ Dream Broker (correct answer)
- ☐ Kaltura (correct answer)



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## 5.3 Scenario 3 - Update course content

### 5.3.1 Prerequisites

Logged into the LMS service: Teacher 1 (see chapter Login above).

Terminal: Computer

### 5.3.2 Objective

The teacher has updated the content of the course (according to chapter Instruction below).

### 5.3.3 Instruction

Update the content of the course "SF1600 Autumn 15":

1. Remove the page "Textbook template".
2. Copy the page "Textbooks" from course "SF1700 Autumn 14" to any location in the course "SF1600 Autumn 15". If possible, copy the entire page and not just the content.
3. Create a page that you name "Example".
4. On the page "Example":
  - a. Embed a video clip from YouTube (the video clip shall be displayed directly on the page). Use either the link or the code snippet below, depending on what is easiest to use in the service.
    - i. <https://www.youtube.com/watch?v=wHe8tjUxGDk>
    - ii. `<iframe width = "853" height = "480" src = "https://www.youtube.com/embed/wHe8tjUxGDk" frameborder = "0" allowfullscreen> </iframe>`
  - b. Create a link to: [www.kth.se](http://www.kth.se)
  - c. Insert the image "Picture 1.jpg" and reduce the image size to about half. The image file can be found on your computer's desktop.
  - d. Save/publish the page.
  - e. Set permissions so that only teachers can view the page.
5. Upload the file "Further reading.pdf" to the course file archive/document area. The file to be uploaded can be found on your computer's desktop.



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## **5.4 Scenario 4 - Find out my students course progress**

### **5.4.1 Prerequisites**

Logged into the LMS service: Teacher 1 (see chapter Login above).

Terminal: Computer

### **5.4.2 Objective**

Teachers can tell how students have performed (according to chapter Instruction below).

### **5.4.3 Instruction**

For course "SF1600 Autumn 15":

1. Find out how many of the students that have passed the "Assignment 1" and "Lab 1".
2. Find out how many of those who have submitted "Assignment 1" that remain to be corrected.
3. Find out how many of the students that have not completed "Lab 1".
4. Find out how Karin Persson performed ("Student 1").



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## 5.5 Scenario 5 - Correct assignments

### 5.5.1 Prerequisites

Logged into the LMS service: Assistant 1 (see chapter Login above).

Terminal: Tablet

### 5.5.2 Objective

The assistant has gone through, written feedback, and graded submitted assignments (according to chapter Instruction below).

### 5.5.3 Instruction

Correct "Assignment 1" in course "SF1600 Autumn 15":

1. Choose four students whose last name begins with the letters K through P.
2. For each student:
  - a. Check submitted assignment (take a quick look at it).
  - b. Give the student feedback (in any manner) with the following comment "Check Chapter 7 in the book".
  - c. Grade it as failed.



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## 5.6 Scenario 6 - Communicate with students

### 5.6.1 Prerequisites

Logged into the LMS service: Assistant 1 (see chapter Login above).

Terminal: Tablet

### 5.6.2 Objective

The assistant has sent three messages to students and made sure that the messages have been sent (according to chapter Instruction below).

### 5.6.3 Instruction

For course "SF1600 Autumn 15":

1. Send a message (in any manner) to all students with the following content "The exam is now corrected."
2. Ensure that the message has been sent.
3. Send a message (in any manner) to the student Maria Karlsson with the following content "You need to complete task 5".
4. Ensure that the message has been sent.
5. Send an important message (in any manner) to all students with the following content "Changed location today for the Mathematics lecture at 13:00! The new location is E1. ".
6. Ensure that the message has been sent.



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## **5.7 Scenario 7 - Find out my course progress**

### **5.7.1 Prerequisites**

Logged into the LMS service: Student 1 (see chapter Login above).

Terminal: Smartphone

### **5.7.2 Objective**

The student can explain the results that the student has achieved so far in the course and have asked a question to the teacher (according to chapter Instruction below).

### **5.7.3 Instruction**

1. Find out which of my activities in the course "SF1600 Autumn 15" that are completed and graded.
2. Ask a question (in any manner) with the following content "When is the next time for Lab 1 ?". The question shall be visible to everyone on the course.



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## 5.8 Scenario 8 – Upload assignment

### 5.8.1 Prerequisites

Logged into the LMS service: Student 1 (see chapter Login above).

Terminal: Computer

### 5.8.2 Objective

The student has submitted an assignment and sent a comment to the teacher (according to chapter Instruction below).

### 5.8.3 Instruction

For "Assignment 2" in course "SF1600 Autumn 15":

1. Do your submission by uploading the document "Task 2 version 1.pdf" located on the computer's desktop.
2. Check that the proper document has been uploaded.
3. You realize that you want to upload another document. Replace the documents "Task 2 version 1.pdf" with the document "Task 2 version 2.pdf" (can also be found on the computer's desktop). If possible, the old version shall be removed.
4. Check that the correct document has been uploaded.
5. Send a comment (in any manner) to the teacher/teachers with the following content "Is my assignment detailed enough or do I need to complement the assignment?". The comment shall only be visible to the teacher/teachers.