МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ  
РОССИЙСКОЙ ФЕДЕРАЦИИ

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**Отчет по лабораторной работе №2**

Дисциплина: «Методы проектирования и поддержки требований к программному обеспечению»

Тема: **«Specification of system requirements. Activity, Sequnce, State»**

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**ЗАДАНИЕ**

Objective: To study the basic features for creating and editing use case diagrams  
Tasks

1. Write script for each use case using template: use case name, actors, goal, short description, basic script, exceptions.
2. Complete scripts with examples of documents to be created by your information system. For example, Bill in café, Internet invoice, Order in the online store, Medical services bill, etc.

**ХОД РАБОТЫ**

**Task 1**

Script for each use case.

**Use Case 1**

**Use case name:**add user

**Actors:**university teacher

**Goal:**registration of students in the system.

**Short description:** add a student to the system after receiving his password.

**Basic script:**

1. the teacher selects the item "add student" in the main menu;
2. the system shows the directorate a window for adding a student, containing fields for entering a username and password, as well as buttons "next" and "back";
3. the teacher enters the desired username and password of the student, clicks the "next" button;
4. the system adds a student;

The teacher opens the main menu and displays a notification that the student was added successfully.

**Exception 1**: (return to the main menu without adding a student):

1. the teacher selects the item "add student" in the main menu;
2. the system shows the teacher a window for adding a student, containing fields for entering a username and password, as well as buttons "next" and "back";
3. the teacher presses the "back" button;
4. the teacher opens the main menu (while the data entered in the forms of the window for adding a student is not saved).

**Exception 2**: (this login already exists):

1. selects the item "add student" in the main menu;
2. the system shows the teacher a window for adding a student, containing fields for entering a username and password, as well as buttons "next" and "back";
3. the teacher enters the desired username and password of the student, clicks the button "next*»*;
4. a notification is displayed that the requested login is busy.

**Use Case 2**

**Use case name:**authorization

**Actors:**university teacher, student

**Goal:**log in for further actions.

**Short description:** the user enters the site of the system. Goes to the start page of the system. Authorized to login.

**Basic script:**

1. The user enters the system site (to the start page);
2. When you try to order any service, the system prompts you to log in.
3. User clicks on enter button.
4. Enter username and password.

**Exception 1**: username or password is incorrect.

**Exception 2**: user with the given username was not found.

1. The user is logged in.

**Use Case 3**

**Use case name:**place tasks

**Actors:**university teacher

**Goal:**placement of tasks to be performed.

**Short description:** the teacher places assignments for students in the system.

**Basic script:**

1. The use case "authorization" is performed.
2. Clicks the "Place Job" button.
3. Fills in the form in Figure 1, attaches additional files (examples of report forms, lectures).
4. Selects a group of users who should see the task and the explanation for the task.

**Use Case 4**

**Use case name:** view tasks

**Actors:**university teacher, student

**Goal:**the ability to view assignments.

**Short description:** students must view assignments to complete reports. The teacher can also view assignments and students who sent answers.

**Basic script:**

1. The use case "authorization" is performed.
2. Go to the section "execution tasks".
3. Goes to the section for viewing the task. The form is similar to that in Figure 1, only the student does not see other students completing the task and the fact of completion. The teacher sees the fact of completion, can view the answers.

**Use Case 5**

**Use case name:** complete tasks

**Actors:**student

**Goal:**completing assignments.

**Short description:** students give answers or attach report files to assignments.

**Basic script:**

1. The use case "authorization" is performed.
2. Go to the section "execution tasks". Select task.
3. Writes a response or attaches a report as a file / files

**Exception 1**: files more than 20.

**Exception 2**: the total size of files exceeds 20 MB.

**Use Case 6**

**Use case name:** view reports

**Actors:**university teacher

**Goal:**control of completed tasks.

**Short description:** the teacher downloads files or looks at the answers.

**Basic script:**

1. The use case "authorization" is performed.
2. Go to the section "execution tasks". Select task.
3. Presses the button "view reports".
4. A list of users to complete the task is displayed. It indicates the receipt of answers or their absence..
5. The instructor can select a user from the list to view or download the report.

**Use Case 7**

**Use case name:** delete task

**Actors:**university teacher

**Goal:**remove a task from the system that is no longer needed.

**Short description:** the teacher deletes the assignment if all answers are received.

**Basic script:**

1. The use case "authorization" is performed.
2. Go to the section "execution tasks". Select task.
3. Presses the "delete" button..

**Use Case 8**

**Use case name:** rate

**Actors:**university teacher

**Goal:** assess knowledge.

**Short description:** the university teacher gives marks for the received reports.

**Basic script:**

1. The use case "authorization" is performed.
2. Go to the section "grade sheets". Select a group and subject.
3. Record the grades in the statement. Figure 2 shows an example of a document.

**Task 2**

Examples of documents.

Name

Description

Additional

files

Add files

8

Allow execution

assignments with

March

2021

00

00

**v**

8

Deadline for completion

March

2021

00

00

**v**

Answer type

**v**

Answer as text

File response

Select user group

Fugure 1 – Task layout

Item name

Group

Full name Evaluations

**v**

Task 1 … Task N Result

Петров Иван

Юрьевич 4 5 3 4 … задание N Итог

Figure 2 – Grade sheet

**ЗАКЛЮЧЕНИЕ**