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| **Report on management system for**  “Academy of the handsome men and **bea**utiful woman(BEA) “  web application  BTI7302 - Project 2 – 2019  *Advisor: Prof. Dr. Olivier Biberstein*  *Author: Kristina Shiryagina*  *Version and date: 01, 30.09.19* |
| **Bern University of Applied Sciences**  Department  Division |

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# Vision and scope

## Project Description

As the head of information system for Online academy we are tasked with developing a part of new Online Management System. As the idea of online education is getting more popular day by day.

The proposed software product (Online Beauty academy) is an online education system. The system will be used to download lectures, conducting online quizzes, course registration, exam reservation, managing results. The system must be right protected.

The online academy will have different courses. The are beauty course , beauty instructor course and other future courses. Each course will have topics and lessons for each topic. Some of lessons will have test(quizzes) . Making a test the participant will collect a points. The sum of all point for all tests are 30% of final grade. After making all lessons participant will be able to make a final exam that has weight 70% of final grade. The participant must make a reservation for final interactive exam with lecturer. He has to prenote the available Date for this exam.

## Project background

## Stakeholder Description

Similar to other technology applications, the success of online-learning is dependent on the extent to which it satisfies the needs and addresses the concerns of its stakeholders.

The **list of stakeholders**

* Participant: use the system to register for the course or exam, view information.
* Instructors: they could give ideas on the solution for the system’s development and improvement.
* Administrator: manage the system after it is built.
* Education Institutions
* Content Providers
* Development team: include all software engineers, business analysts, system analysts, system designers, implementers, testers, QA, and project management. They are tasked to build the system.
* Employers

## Vision of Solution

### Problem Statement

Now academies are running various programs as full time courses. The academy timing sometimes make it difficult to study for person who are doing some jobs. The online education would help such person who live far away from education institutes.

The other problem is that the current online management system doesn't have the needed flexibility and is not modern enough. The capabilities are limited.

Online management system is effective, reduce time and cost in courses and exam management process.

### **Project Scope**

We going to build just a part of the academy management system. We have to pay attention to building applications supporting: Participant will be able to register, to enrol and manage their courses, to make a reservation for a final exam.

### Summary of **System Feature**

* Online registration.
* Log in.
* Course registration.
* Exam registration.
* Manage Participant information.
* Manage Offering Courses.

### List of features will not be developed

The features which are currently out of scope and may be added later on as an extension

to the application are:

* Access the system as lecturer
* Manage lecturer Information.
* Manage Financial Activities.
* Uploading course content.
* Course evaluation.
* Downloading course content.
* Video conferencing.
* Info service.
* Information library.

# 

# Analysis 1

# Domain model

This document describes the domain model of the Beautiful Academy BEA. It introduces the most important entities and the associations among them. It also introduces the respective multiplicities.

### Concept Classes

Concept class Participant models a person who is taking the courses.

Concept class Lecturer models a person who is teaching and give an exam for the participant.

Concept class Course models the main courses that offer application.

Concept class Topic models the sub course of the course.

Concept class Lesson models a set of lessons that contains each topic.

Concept class Test models a set of test that contains a topic.

Concept class Final exam models a exam that can be taken by participant in case making all predecessor’s tests.

Concept class Question models a set of questions that contains the topic.

Concept class Answers models a set of answers that contains the topic to each question.

## User stories 2

1. As a user, I want to be able to login into the system with my credential (username, password).

Success: The user is logged in and can use the functionality of the system.

Failure: An error message is displayed: “Wrong username or password, please try again!”.

1. As a Participant, I want to choose and subscribe to the course.

Success:

Failure:

1. As a Participant, I want to see the information about the courses.

Success:

Failure:

1. As a Participant, I want to see the marks of the final exam and total.

Success:

Failure:

1. As a Participant, I want to select an exam (there are different data on an exam).

Success: A participant has selected exam, the database is changed.

Failure: An error message is displayed “This date is already reserved, please take another date for your final exam".

1. As a Participant, I want to be able to cancel the exam registration.

Success: A message “You have successfully deleted your exam registration”

Failure: An error message "The period of availability of deleting registration is expired, please take a contact to the administration".

1. As a Participant, I want to see my page with my personal information and my result and the courses I've done.

Success: The participant can see his page with all the information it has.

Failure: We are sorry, this page is on reconstruction, you can access it after 12 hours.

1. As a Participant, I want to receive certification.

Success: The participant will receive a certification.

Failure:

1. As an Instructor, I want to see a list of participants with courses that they have to choose and the corresponding date of a final exam.

Success: An Instructor can see the list with all the data he needs for an exam.

Failure:

1. As a System Administrator, I can change the information on a course .

Success: An Administrator can manage the data of courses, participants, exams.

Failure:

\*\*\*\* future user stories

1. As a Participant, I want to see the results of each test I do.

Success:

Failure:

# Design 1

## Class diagram 2

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# Implementation

## Software Architecture:

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# Testing

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# Conclusion

// In the conclusion of the project, you first summarize the most important results of your project in an understandable way. The main thing here is to filter out the essential content from the previous chapters and get to the point in a compact, clear and concise way.

## Summary

// Summary of the main results of your thesis

## Interpretation

//Interpretation of my results

//. In the theoretical part of your project, you should research and present the current state of research in detail in order to draw the right conclusions from the conclusion of your project. Even if your question could not be answered satisfactorily, you should present it honestly. Check what you could and could not achieve, what you would do differently in retrospect and which methods have proven to be useful.

## Outlook

//Outlook of my project and future research recommendations

# Glossary

**Auinweon**

Et ut aut isti repuditis qui ium 7

**Batnwpe**

Et ut aut isti repuditis qui ium 9

**Cowoll**

Et ut aut isti repuditis qui ium 11

# Bibliography

**Literary Entry**

*Author’s name, Author’s first name, book title, publisher, place, edition, year* 7

**Literary Entry**

*Author’s name, Author’s first name, book title, publisher, place, edition, year* 9

**Literary Entry**

*Author’s name, Author’s first name, book title, publisher, place, edition, year* 11

# Version control

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| --- | --- | --- | --- |
| **Version** | **Date** | **Description** | **Author** |
| 0.1 | 30.09.2019 |  | Kristina Shiryagina |
| 0.2 | 13.03.2013 | Et ut aut isti | Kristina Shiryagina |
| 1.0 | 21.05.2013 | Et ut aut isti | Kristina Shiryagina |

# Protocol

**Frequency:** (weekly)

**Meeting length:** (35-45 minutes)

Agenda

* **Demo and Discuss Deliverables (Demo)**
* **Planning next Goals (Plan)**
* **Lessons learned (Lessons)**
* **Date, time, location of the next meeting (next meeting)**

**09.10.19**

**Demo**

**Plan**

Next goals are:

1. Introduction of a Vision make clear. Write about an application I want to build. I have to write a Vision that can make a good picture about the functionality of this application.
2. Change the problem statement:

* Join 2 Systems in 1 . Rename system in functions. And write that these functions just a part of this system we want to build.
* Write concrete user stories to these functions, group the stories according the function.

1. Analyze domain model, put attributes to each conceptual class, make description for each association. Rebuild domain model according of new clear representation of necessary functions of the system.
2. Sequence diagram of first function we want to implement (probably log in)
3. Try to make class-diagram.
4. Implement of log in function.
5. Write a protocol in the main doc.

**Lessons learned**

To documentation play decisive role in Software Engineering Project. The first analysing phase have to be done well to make a good start for design and implementation of the IT Product.

**Next Meeting:** 16.10.19, 14:30

16.10.19

* **Demo and Discuss Deliverables (Demo)**

**ok**

* **Planning next Goals (Plan)**

The next goals are:

1. A domain model – last version.
2. Vision complete.
3. Put spring plan in the main document (Time planning is the first preference)
4. After completing 3d point, merge sprint1 and make a del
5. Start with Design part: 1st we start with design for login feature.

* SSD for login
* Class diagram(not sure)

1. Write good document for Spring Boot and Angular. Describe the most successful aspects,

That has spring boot , angular. Describe why we have choose it for this project. Describe how can be implement login with spring boot.

1. Make a Product Backlog( list of user stories) and divide to 4 sprints.
2. Point 1 and 2 have highest priority. Just when these 2 points successfully completed I will continue my to-dos.

* **Lessons learned (Lessons)**

With this practical work I become always clearer the main principles of building software.

* **Date, time, location of the next meeting (next meeting) :** 23.10.19, 14:30