



Departement of Engineering and Information Technology

Project2 (Modul BTI7302) 19/20

Report on management system for:

# "Academy of the handsome men and beautiful woman(BEA)" web application

*author:* Kristina SHIRYAGINA (kristina.shiryagina@bfh.ch)

*supervisor:* Prof.Dr Olivier BIBERSTEIN (cccc.cccc@bfh.ch)

November 23, 2019

## Contents

<b>1</b>	<b>Abstract</b>	<b>3</b>
<b>2</b>	<b>Main section</b>	<b>3</b>
2.1	Vision . . . . .	5
2.1.1	Introduction . . . . .	5
2.1.2	Problem Statement . . . . .	6
2.1.3	Stakeholder Summary . . . . .	6
2.1.4	Product Overview . . . . .	6
2.1.5	Summary of System Features . . . . .	7

2.1.6	Summary of Future Features . . . . .	7
2.1.7	User Summary . . . . .	8
2.2	Software development methology . . . . .	8
2.2.1	Agile development, Scrum. . . . .	9
<b>3</b>	<b>Conclusion and future work</b>	<b>10</b>

## 1 Abstract

/\*\*The abstract may not be what you write first, as it might be easiest to summarize your whole paper after it's been completed. You could draft it from your outline, but you'll want to double-check later that you have included the most important points from your article and that there's nothing in the abstract that you decided not to include in your report..., max 250 words\*/ Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

For that we read the article book of **Diniz:2010:UG0:525452.452352** /\*\* just an example

## 2 Main section

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer

sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac

habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Donec odio elit, dictum in, hendrerit sit amet, egestas sed, leo. Praesent feugiat sapien aliquet odio. Integer vitae justo. Aliquam vestibulum fringilla lorem. Sed neque lectus, consectetur at, consectetur sed, eleifend ac, lectus. Nulla facilisi. Pellentesque eget lectus. Proin eu metus. Sed porttitor. In hac habitasse platea dictumst. Suspendisse eu lectus. Ut mi mi, lacinia sit amet, placerat et, mollis vitae, dui. Sed ante tellus, tristique ut, iaculis eu, malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis, ultrices a, dui.

## 2.1 Vision

### 2.1.1 Introduction

/\*\* The introduction gives the reader the necessary background info. can include: -a description of purpose and objective -a statement of the problem -background info -a review of previous work -an indication of the scope and limitations of study -an outline of material presented in the rest of report \*/

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 for online-education, to download lectures, conducting online quizzes, course registration, exam reservation, managing results. The system must be right protected.

This product let persons who have interest to study beauty , who want to make themselves more beautiful to do it. Our product includes different online courses. There are beauty-course , beauty-instructor course and other future courses. Each course will have topics and lessons for each topic. The context of lessons are text, video-tutorials, etc. If participant want to get a certificate he shall do exams.

#### Online Exams.

This application will establish a network between the lecturers and participants. Academia enter the questions they want in the exam. These questions are displayed as a test to the eligible participant. The answers enter by the participant are then evaluated and their score is calculated and saved. This score then can be accessed by the Academy to evaluate the performance of participants. Exam details.

Each topic will have small exam(quizzes). Making exams the participant will collect a points. The sum of all point for all small exams are 30% of final grade. After making all small exams 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 lecturers. He has to prenote the available Date for this exam. ´

The application has an administrator who keeps an eye on the overall functioning of the system.

### **2.1.2 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.

### **2.1.3 Stakeholder Summary**

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.

- 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

### **2.1.4 Product Overview**

/\*\*Think of questions a customer might ask Always include the details: dimensions, size, materials, etc. Tell the story of your product to make it feel unique Make text easy to scan and read quickly Add testimonials and social proof Optimize product descriptions for SEO too.who, what, where, when, why and how before writing. \*/ This section provides a high-level overview of the BEA(Beautiful academy) features for various types of roles.

.Our user can easily register hisself for courses he likes and follow the program of this course.Each course has topics and lessons for each topic. The context of lessons are text,

video-tutorials, etc.

The user can test himself with mini exams. The user can also prenote a final exam with lecturer. Our academy gives possibility to have a certificate. For this the user have to make all required exams for course and if he passed es well he will become a certificate from our academy.

This application is also very useful for lecturers. The lecturer can use this system for uploade a content of courses, topics, lessons. The lecturer can make online tutorials for participants. He can gives an online exams. He can make evaluation. He can prepare content of quizzes needed for mini exams.

The administrator can create, change, delete, update and control information about courses, lectures, users, date and time, etc.

### **2.1.5 Summary of System Features**

- Online registration.
- Log in.
- Manage user information.
- Manage Offering Courses.
- Communication via mails.
- Manage Lecturer information.
- Course registration.
- Exam registration.

### **2.1.6 Summary of Future Features**

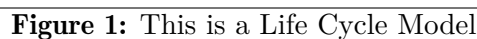
- Access the system as lecturer
- Manage Financial Activities.
- Uploading course content.
- Course evaluation.
- Downloading course content.
- Video conferencing.
- Info service.
- Information library.

## 2.2 Software development methodology

**Software engineering** is the discipline whose aim is:

- Software process** is the way in which we produce the software. Apart from hiring smart, knowledgeable engineers and buying the latest development tools, effective software development process is also needed, so that engineers can systematically use the best technical and managerial practices to successfully complete their projects.

## Life Cycle Models



This model contains **6 phases**:

- 8



o **Design** The goal of this phase is to transform the requirement specification into a structure that is suitable for implementation in some programming language.

o **Implementation** and unit testing

During this phase the design is implemented. Initially small modules are tested in isolation from rest of the software product.

o **Integration and system testing**

In this all the modules are integrated and then tested altogether.

o **Operation and maintenance.** Release of software inaugurates the operation and life cycle phase of the operation.

### 2.2.1 Agile development, Scrum.

Scrum was in the center of developing process. As scrum projects make progress in a series of “sprints”, we have divided the whole process into 4 sprints. Product was first analysed, designed , then code and tested during the sprint.

Scrum Roles

- Scrum Master – Prof.Dr. Olivier Biberstein
- Developer – Kristina Shiryagina

Artifacts

- Product Backlog
- Sprint Backlog

Meetings have included :

- Product/release planning
- Sprint planning
- Weekly Scrum
- Sprint review
- Sprint retrospective

Scrum Meetings

Each meeting between developer and scrum master was made of several steps, that were repeated each time:

- Attendance: all
- Product Owner presents Product Backlog with all relevant user stories with their priority
- Discussions and clarifications if needed
- Results:

Prioritized Product Backlog

- Specifies what to build
- Final decision by the Master
- Vision, high level architecture, most important non-functional requirements

Release planning (if product is to be delivered in releases):

- Select and prioritize items of Product Backlog for the next Release Backlog

### 3 Conclusion and future work

/\*\*

\*/ Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

### References

- [1] Walter Abish *The Alphabetical Africa*, 1974