
Courses Management App

Sprint Report

The Developer Gang
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VERSIONS HISTORY

Date	Version	Description	Author
28/2/22	1.0	Requirements study. Website design.	Damianos Kalaitsidis Eftychia Bourli
1/3/22	1.1	Code design and organization Implementation US1	Damianos Kalaitsidis Eftychia Bourli
5/3/22	1.2	Menu implementation (html)	Damianos Kalaitsidis Eftychia Bourli
10/3/22	2.0	Implementation of US2, US3 and US4 (html)	Damianos Kalaitsidis Eftychia Bourli
12/3/22	2.1	Implementation classes. Implementation US5 Debugging	Damianos Kalaitsidis Eftychia Bourli
19/3/22	2.2	Debugging	Damianos Kalaitsidis Eftychia Bourli
22/3/22	2.3	Implementation of US2, US3 and US4 (java)	Damianos Kalaitsidis Eftychia Bourli
27/3/22	2.4	Implementation and connection of courses with the database	Damianos Kalaitsidis Eftychia Bourli
1/4/22	2.5	Completion of US2,US3, US4 and US5	Damianos Kalaitsidis Eftychia Bourli
10/4/22	3.0	Implementation of US7, US8 and US9 (java)	Damianos Kalaitsidis Eftychia Bourli
12/4/22	3.1	Implementation US6	Damianos Kalaitsidis Eftychia Bourli

13/4/22	3.2	Debugging US6	Damianos Kalaitidis Eftychia Bourli
16/4/22	3.3	Completion of US6, US7, US8 and US9	Damianos Kalaitidis Eftychia Bourli
8/5/22	4.0	Implementation US10	Damianos Kalaitidis Eftychia Bourli
14/5/22	4.1	Completion of US10	Damianos Kalaitidis Eftychia Bourli
15/5/22	4.2	Implementation US11 and US12	Damianos Kalaitidis Eftychia Bourli
16/5/22	4.3	Completion of US11	Damianos Kalaitidis Eftychia Bourli
17/5/22	4.3	Report και video	Damianos Kalaitidis Eftychia Bourli

1 Introduction

This document provides information concerning the **final** sprint of the project.

1.1 Purpose

The purpose of this sprint is to make a Web Application for teachers, according to which they will be able to facilitates the better organization and manage of their students' grades.

1.2 Document Structure

The rest of this document is structured as follows. Section 2 describes out Scrum team and specifies the this Sprint's backlog. Section 3 specifies the main design concepts for this release of the project.

2 Scrum team and Sprint Backlog

2.1 Scrum team

Product Owner	Apostolos Zarras
Scrum Master	Damianos Klaitisidis, Eftychia Bourli
Development Team	Damianos Klaitisidis, Eftychia Bourli

2.2 Sprints

Sprint No	Begin Date	End Date	Number of weeks	User stories
final	28/2/22	18/5/22	8	US1 to US12

3 Use Cases

3.1 User Controller

Use case ID	UC1
Actors	Professor and the System
Pre conditions	Must give username and password
Main flow of events	The use case starts when the user insert the username, password and click register. Then transfer the user to the main menu.
Alternative flow 1	In case the user tries to log in without giving information or giving wrong information an error message appears on the screen.

3.2 Course Controller

Use case ID	UC2
Actors	Professor and the System
Main flow of events	Its main functions are to be able to show the courses, add, remove or update a course from the list.

3.3 Grade Controller

Use case ID	UC3
Actors	Professor and the System
Main flow of events	Its main functions are to be able to show the of student's grades that enrolled to a particular course

3.4 Statistic Controller

Use case ID	UC4
Actors	Professor and the System
Main flow of events	Its main functions are to be able to show the statistics of student's grades that enrolled to a particular course

3.5 Connection with Course Table

Use case ID	UC5
Actors	The System
Pre conditions	There must be a database
Main flow of events	Connects the course table from data base to course Controller

3.6 Connection with Grade Table

Use case ID	UC6
Actors	The System
Pre conditions	There must be a database
Main flow of events	Connects the Grade table from data base to Grade Controller

3.7 Connection with Student Table

Use case ID	UC7
Actors	The System
Pre conditions	There must be a database
Main flow of events	Connects the Student table from data base to Student Controller

3.8 Connection with Statistic Table

Use case ID	UC8
Actors	The System
Pre conditions	There must be a database
Main flow of events	Connects the Statistic table from data base to Statistic Controller

3.9 Course Service

Use case ID	UC9
Actors	The system
Main flow of events	The use case implements the find, add, delete and update functions for courses. She called by Course Controller.

3.10 Grade Service

Use case ID	UC10
Actors	The System
Main flow of events	The use case implements the find, add, delete and update functions for grades. She called by Grade Controller.

3.11 Student Service

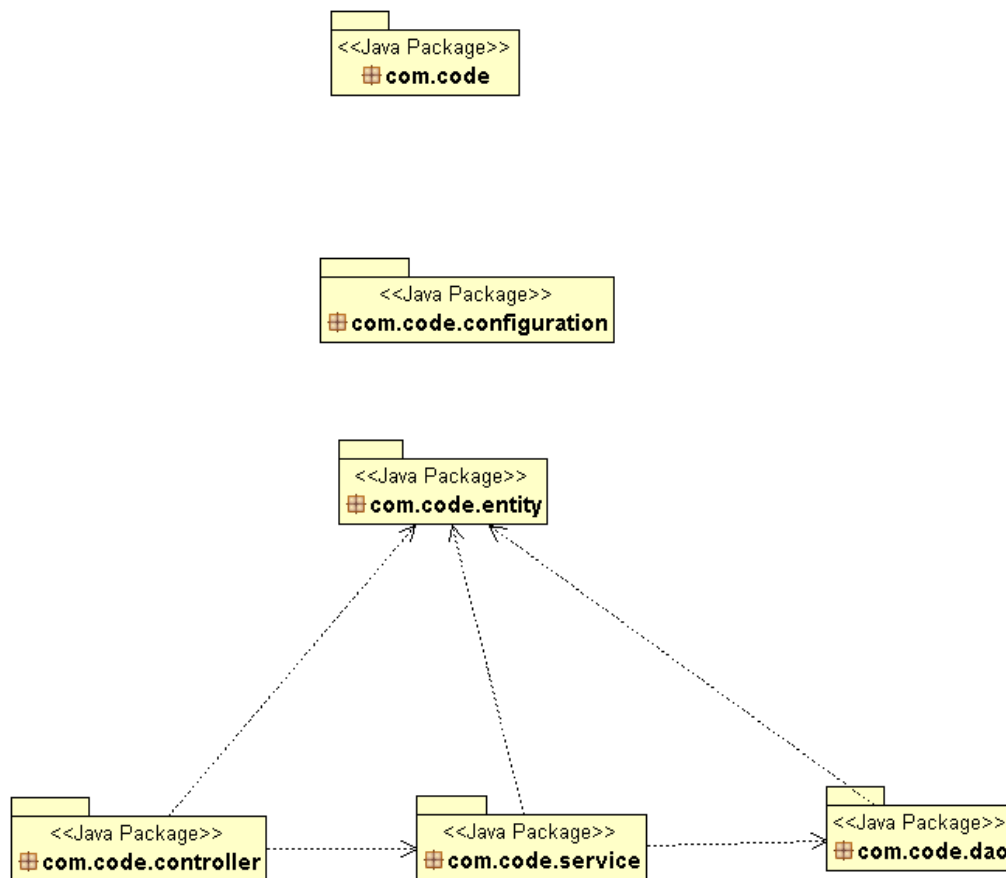
Use case ID	UC11
Actors	The System
Main flow of events	The use case implements the find, add, delete and update functions for students. She called by Student Controller.

3.12 Statistic Service

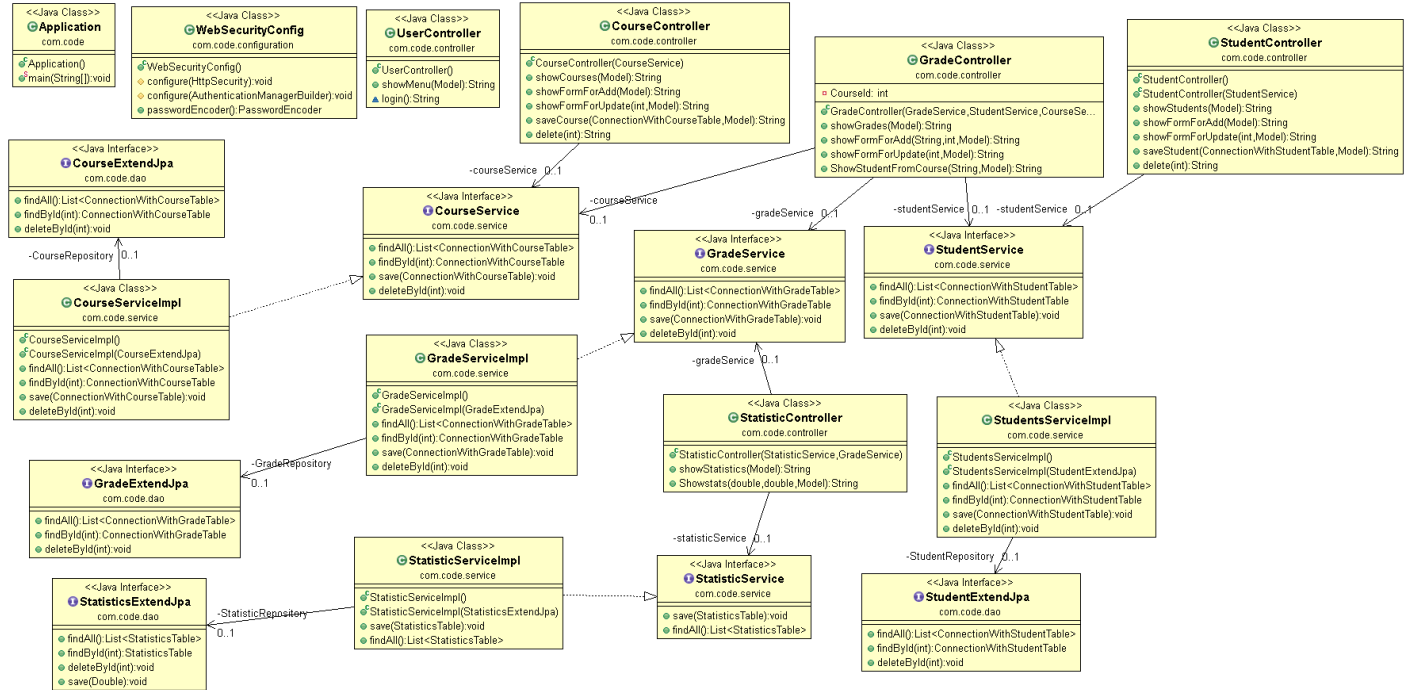
Use case ID	UC12
Actors	The System
Main flow of events	The use case implements the save and find functions. She called by Statistic Controller.

4 Design

4.1 Architecture



4.2 Design



Class Name: Application	
Responsibilities: <ul style="list-style-type: none">▪ Run Spring Application	Collaborations: <ul style="list-style-type: none">▪ Springs

Class Name: Web Security Config	
Responsibilities: <ul style="list-style-type: none">▪ Secure connection to the application	Collaborations: <ul style="list-style-type: none">▪ Springs

Class Name: User Controller	
Responsibilities: <ul style="list-style-type: none">▪ Connects login page to menu page	Collaborations: <ul style="list-style-type: none">▪ Spring

Class Name: Course Controller	
Responsibilities: <ul style="list-style-type: none">▪ Course management	Collaborations: <ul style="list-style-type: none">▪ Spring▪ Course Service

Class Name: Student Controller	
Responsibilities: <ul style="list-style-type: none"> ▪ Student management 	Collaborations: <ul style="list-style-type: none"> ▪ Spring ▪ Student Service

Class Name: Grade Controller	
Responsibilities: <ul style="list-style-type: none"> ▪ Grade management 	Collaborations: <ul style="list-style-type: none"> ▪ Spring ▪ Course Service ▪ Student Service ▪ Grade Service

Class Name: Statistic Controller	
Responsibilities: <ul style="list-style-type: none"> ▪ Implements the functions for managing students 	Collaborations: <ul style="list-style-type: none"> ▪ Spring ▪ Statistic Service

Class Name: Course Service	
Responsibilities: <ul style="list-style-type: none"> ▪ Implements the functions for managing courses 	Collaborations: <ul style="list-style-type: none"> ▪ Spring ▪ Course Controller ▪ Grade Controller ▪ Course Extend Jpa

Class Name: Student Service	
Responsibilities: <ul style="list-style-type: none"> ▪ Implements the functions for managing students 	Collaborations: <ul style="list-style-type: none"> ▪ Spring ▪ Student Controller ▪ Grade Controller ▪ Student Extend Jpa

Class Name: Grade Service	
Responsibilities: <ul style="list-style-type: none"> ▪ Implements the functions for managing grades 	Collaborations: <ul style="list-style-type: none"> ▪ Grade Controller ▪ Statistic Controller ▪ Grade Extend Jpa

Class Name: Statistic Service	
Responsibilities: <ul style="list-style-type: none"> ▪ Implements the save and find functions 	Collaborations: <ul style="list-style-type: none"> ▪ Statistic Controller ▪ Statistic Extend Jpa