

# TRAINING SUPPORT SYSTEM Software Requirement Specification

#### RECORD OF CHANGES

Date	A* M, D	In charge	Change Description
9/Sep	A	HungNV	Thiết kế code package (I.1 Code Packages)
9/Sep	A	ManhPV	Thiết kế Database Schema(II.2 a.Database Schema)
9/Sep	A	HoaND	Mô tả table (II.2 b.Table Description)
10/Sep	M	HungNV	Sửa thiết kế code package (I.1 Code Packages)
14/Sep	M	HungNV	Sửa thiết kế code package(I.1 Code Packages)
17/Sep	A	HungNV	Thêm mô tả cho Home Page (II.1
17/Sep	A	HungNV	Thêm mô tả cho Dashboard
17/Sep	A	HungNV	Thêm mô tả cho Login (II.3)
18/Sep	A	ManhPV	Thêm Code design ChangePassword (II.7)
18/Sep	A	ManhPV	Thêm Code design Setting list (II.8)
18/Sep	A	ManhPV	Thêm Code design Setting details (II.9)
18/Sep	A	HoaND	Thêm mô tả cho Password Reset design(II.4)
18/Sep	A	HoaND	Thêm mô tả cho User Register design(II.5)
18/Sep	A	HoaND	Thêm mô tả cho User Profile design(II.6)
18/Sep	A	AnhLH	Thêm mô tả cho Subject Details (II.10)
18/Sep	A	AnhLH	Thêm mô tả cho Web Contact List (II.11)
18/Sep	A	AnhLH	Thêm mô tả cho Web contact details (II.12)
18/Sep	A	DuyDC	Thêm mô tả cho User List (II.7)
18/Sep	A	DuyDC	Thêm mô tả cho User Details (II.8)
18/Sep	A	DuyDC	Thêm mô tả cho Subject List (II.9)
25/Sep	M	AnhLH	Sửa phần mô tả của Web Contact List (II.11)
25/Sep	M	AnhLH	Sửa phần mô tả của Web Contact Details (II.12)
11/Oct	A	ManhPV	Thêm phần mô tả cho Assignment list (II.19)
11/Oct	A	ManhPV	Thêm phần mô tả cho Assignment detail (II.19)
11/Oct	A	ManhPV	Thêm phần mô tả cho Eval criteria list (II.19)
9/Oct	A	HungNV	Thêm mô tả cho System Permission (II.28)
9/Oct	A	HungNV	Thêm mô tả cho User Authorization (II.29)
9/Oct	A	HungNV	Thêm mô tả cho Eval Criteria Details (II.30)

22/Oct	A	HungNV	Thêm mô tả cho Class Eval Criteria List (II.31)
22/Oct	A	HungNV	Thêm mô tả cho Class Eval Criteria Details (II.32)
23/Oct	A	AnhLH	Thêm mô tả cho Attendance Tracking (II.38)
23/Oct	A	AnhLH	Thêm mô tả cho Attendance details (II.39)
23/Oct	A	AnhLH	Thêm mô tả cho Schedule Attendance (II.40)
23/Oct	A	ManhPV	Thêm mô tả cho New teams(II.33)
23/Oct	A	ManhPV	Thêm mô tả cho team detail (II.34)
04/10	A	HoaND	Thêm mô tả Milestone List(II.16)
04/10	A	HoaND	Thêm mô tả new Milestone(II.17)
04/10	A	HoaND	Thêm mô tả cho Milestone Details(II.18)
23/10	A	HoaND	Thêm mô tả cho Schedule List(II.35)
23/10	A	HoaND	Thêm mô tả cho Schedule Details(II.36)
23/10	A	HoaND	Thêm mô tả cho Team List(II.37)
9/11	М	HoaND	Sửa phần Package descriptions (I.1)
9/11	M	AnhLH	Sửa phần code packages (I.1)
9/11	M	ManhPV	Sửa phần Database Schema (I.2b)

<sup>\*</sup>A - Added M - Modified D - Deleted

#### **Table of Contents**

I. Overview	11
1. Code Packages	11
2. Database Design	12
a. Database Schema	12
b. Table Description	12
II. Code Designs	13
1. Home Page	13
a. Class Diagram	13
b. Class Specifications	13
c. Sequence Diagram(s)	13
d. Database Queries	14
2. Dashboard	15
a. Class Diagram	15
b. Class Specifications	15
c. Sequence Diagram(s)	16
d. Database Queries	16
3. Login	16
a. Class Diagram	16
b. Class Specifications	17
c. Sequence Diagram(s)	17
d. Database queries	17
4. Password Reset	17
a. Class Diagram	17
b. Class Specifications	18
c. Sequence Diagram(s)	18
d. Database queries	18
5. User Register	18
a. Class Diagram	19
b. Class Specifications	19
c. Sequence Diagram(s)	20
d. Database queries	20
6. User Profile	20

	a. Class Diagram	20
	b. Class Specifications	20
	c. Sequence Diagram(s)	21
	d. Database queries	21
7. (	Change Password	21
	a. Class Diagram	22
	b. Class Specifications	22
	c. Sequence Diagram(s)	23
	d. Database Queries	23
8. \$	Setting List	23
	a. Class Diagram	23
	b. Class Specifications	24
	c. Sequence Diagram(s)	26
	d. Database Queries	26
9. \$	Setting Details	26
	a. Class Diagram	26
	b. Class Specifications	26
	c. Sequence Diagram(s)	28
	d. Database Queries	28
10.	Subject Details	28
	a. Class Diagram	28
	b. Class Specifications	28
	c. Sequence Diagram(s)	29
	d. Database Queries	29
11.	Web Contact List	29
	a. Class Diagram	29
	b. Class Specifications	29
	c. Sequence Diagram(s)	30
	d. Database Queries	31
12.	Web Contact Details	31
	a. Class Diagram	31
	b. Class Specifications	32
	c. Sequence Diagram(s)	32

d. Database Queries	33
13. User List:	33
a. Class Diagram:	33
b. Class Specifications	34
c. Sequence Diagram(s)	35
d. Database queries	35
14. User Details:	35
a. Class Diagram:	36
b. Class Specifications:	36
c. Sequence Diagram(s):	36
d. Database Queries	37
15. Subject List:	37
a. Class Diagram	38
b. Class Specifications	38
c. Sequence Diagram(s)	39
d. Database Queries:	39
16. Milestone List:	39
a. Class Diagram	40
b. Class Specifications	40
c. Sequence Diagram(s)	40
d. Database Queries:	40
17. New Milestone:	41
a. Class Diagram	41
b. Class Specifications	41
Class MilestoneDAO:	41
c. Sequence Diagram(s)	41
d. Database Queries:	41
18. Milestone Details:	41
a. Class Diagram	42
b. Class Specifications	42
c. Sequence Diagram(s)	42
d. Database Queries:	42
19. Assignment List	42

	a. Class Diagram	43
	b. Class Specifications	43
	c. Sequence Diagram(s)	45
	d. Database Queries:	45
20.	Assignment Details:	45
	a. Class Diagram	45
	b. Class Specifications	46
	c. Sequence Diagram(s)	48
	d. Database Queries:	48
21.	Eval Criteria List:	48
	a. Class Diagram	48
	b. Class Specifications	49
	c. Sequence Diagram(s)	50
	d. Database Queries:	50
22.	Class List:	50
	a. Class Diagram	50
	b. Class Specifications	51
	c. Sequence Diagram(s)	52
	d. Database Queries:	52
23.	Class details:	53
	a. Class Diagram	53
	b. Class Specifications	53
	c. Sequence Diagram(s)	53
	d. Database Queries:	53
24.	Class Setting List:	53
	a. Class Diagram	53
	b. Class Specifications	53
	c. Sequence Diagram(s)	54
	d. Database Queries:	54
25.	Class Setting Details:	55
	a. Class Diagram:	55
	b. Class Specifications:	55
	c. Sequence Diagram(s):	55

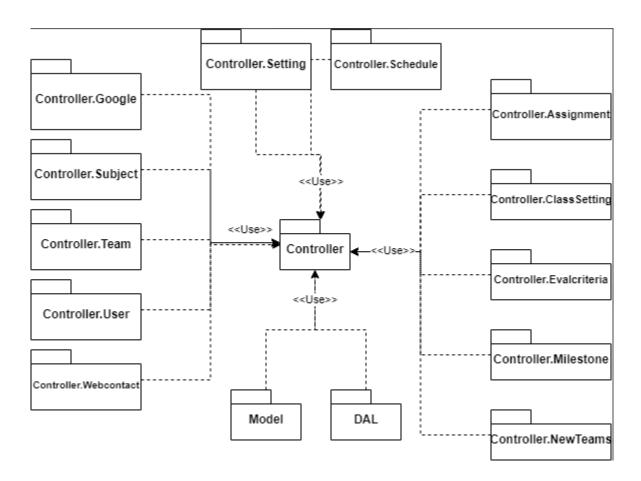
	d. Database Queries:	56
26.	Subject Setting List:	56
	a. Class Diagram:	56
	b. Class Specifications:	57
	c. Sequence Diagram(s):	58
	d. Database Queries:	58
27.	Subject Setting Details:	58
	a. Class Diagram:	58
	b. Class Specifications:	58
	c. Sequence Diagram(s):	58
	d. Database Queries:	58
28.	System Permission:	58
	a. Class Diagram:	58
	b. Class Specifications:	58
	c. Sequence Diagram(s):	58
	d. Database Queries:	58
29.	User Authorization:	58
	a. Class Diagram:	58
	b. Class Specifications:	58
	c. Sequence Diagram(s):	59
	d. Database Queries:	59
30.	Eval-Criteria Details:	59
	a. Class Diagram:	59
	b. Class Specifications:	59
	c. Sequence Diagram(s):	59
	d. Database Queries:	59
31.	Class Eval-Criteria List:	59
	a. Class Diagram:	59
	b. Class Specifications:	59
	c. Sequence Diagram(s):	59
	d. Database Queries:	59
32.	Class Eval-Criteria Details:	59
	a. Class Diagram:	59

	b. Class Specifications:	59
	c. Sequence Diagram(s):	59
	d. Database Queries:	59
33.	New Teams:	60
	a. Class Diagram:	60
	b. Class Specifications:	62
	c. Sequence Diagram(s):	64
	d. Database Queries:	64
34.	Team details:	65
	a. Class Diagram:	65
	b. Class Specifications:	66
	c. Sequence Diagram(s):	68
	d. Database Queries:	68
35.	Schedule details:	69
	a. Class Diagram	69
	b. Class Specifications	69
	Class scheduleDAO:	69
	c. Sequence Diagram(s)	69
	d. Database Queries:	69
36.	Schedule List:	69
	a. Class Diagram	69
	b. Class Specifications	70
	Class scheduleDAO:	70
	c. Sequence Diagram(s)	70
	d. Database Queries:	70
37.	Team List:	71
	a. Class Diagram	71
	b. Class Specifications	71
	Class TeamDAO:	71
	c. Sequence Diagram(s)	71
	d. Database Queries:	71
38.	Attendance Tracking:	72
	a. Class Diagram	72

	b. Class Specifications	72
	Class AttendanceDAO:	72
	c. Sequence Diagram(s)	72
	d. Database Queries:	72
39.	Attendance Details:	73
	a. Class Diagram	73
	b. Class Specifications	73
	Class AttendanceDAO:	73
	c. Sequence Diagram(s)	73
	d. Database Queries:	74
40.	Schedule Attendance:	74
	a. Class Diagram	74
	b. Class Specifications	74
	Class AttendanceDAO:	74
	c. Sequence Diagram(s)	75
	d Database Oueries:	75

#### I. Overview

# 1. Code Packages

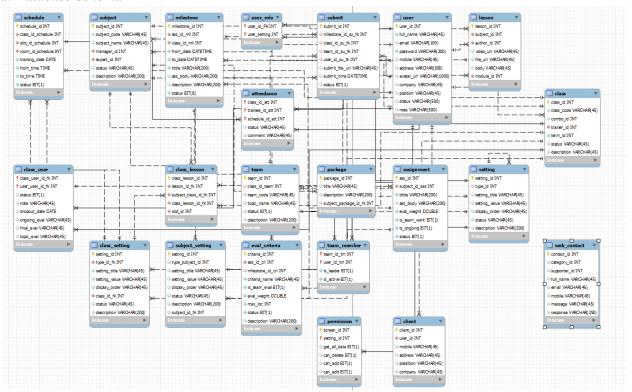


# Package descriptions

TA T	D 1	D : "
No	Package	Description
01	controller	chứa các điều hướng của chương trình
02	model	chứa các thực thể
03	filter	phân và cấp quyền cho các role
04	dal	kết nối với mysql,lấy data từ database
05		
06		

#### 2. Database Design

#### a. Database Schema



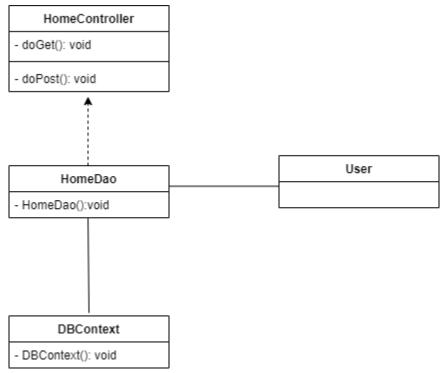
b. Table Description

<i>0. 10</i>	v. Table Description				
No	Table	Description			
1	user	chứa thông tin cơ bản của người dùng như id, password, tên			
2	permission	bao gồm các quyền của từng người dùng, được chia theo role như thêm, sửa,			
		xóa			
3	setting	lưu thông tin chi tiết của các module			
4	subject	chứa các thông tin cơ bản về môn học như mã môn, giáo viên			
5	subject setting	chứa các module của bài học			
6	lesson	chứa các thông tin chi tiết của từng bài học theo môn			
7	class_lesson	chứa thông tin về lớp học, thời gian học			
8	package				
9	client	chứa các thông tin chi tiết của từng client như địa chỉ, số điện thoại			
10	class	chứa thông tin về lớp học như người phụ trách là ai, diễn ra trong kì nào, mã			
		lớp			
11	class_user	chứa thông tin của các người dùng có liên quan theo từng lớp			
12	class_setting	lưu thông tin chi tiết trạng thái, thông tin của một lớp học			
13	team	chứa thông tin của các nhóm học sinh trong 1 lớp như mã nhóm, mã lớp, chủ			
		đề			
14	web contact	chứa các thông tin để liên hệ cho trung tâm			

# **II. Code Designs**

# 1. Home Page

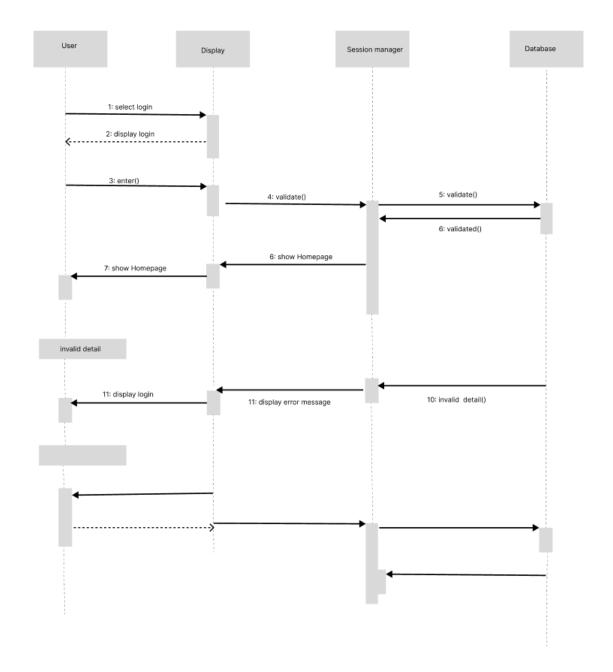
# a. Class Diagram



b. Class Specifications LoginController

No	Method	Description
1	doGet()	Handle get request
2	doPost()	Handle post request

# c. Sequence Diagram(s)



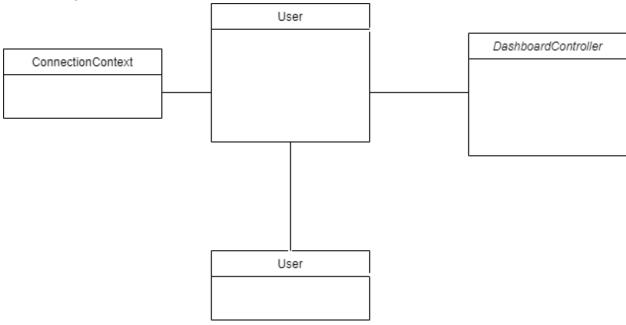
# d. Database Queries

Query:

"SELECT\*FROM user where email like ""+email+"" and password like ""+password+ "";";

#### 2. Dashboard

# a. Class Diagram

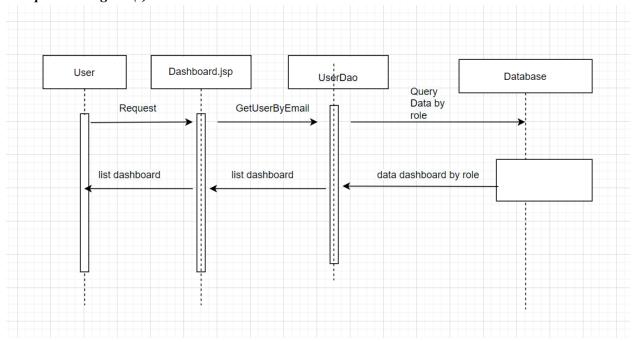


# b. Class Specifications DashBoardController

No	Method	Description
1	doGet()	Handle get request
2	doPost()	Handle post request

#### UserDao

No	Method	Description
1	getAllUser()	Get all data user
2	getUserByEmail()	Get data user which have email



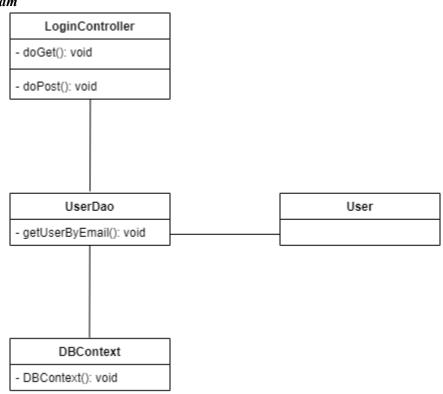
#### d. Database Queries

Query:

SELECT \* FROM user where email=?

#### 3. Login

# a. Class Diagram



# b. Class Specifications

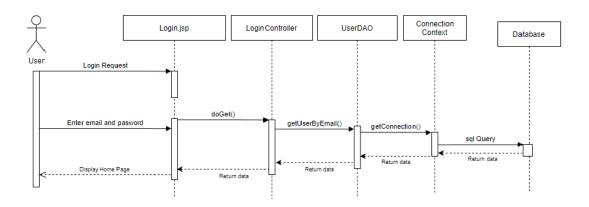
# LoginController

No	Method	Description
1	doGet()	Handle get request
2	doPost()	Handle post request

#### **UserDAO**

No	Method	Description
1	getUserByEmail()	Get all data from user table which have the identified email

#### c. Sequence Diagram(s)



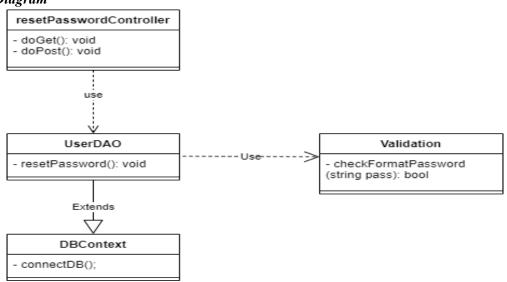
#### d. Database queries

Query 1:

"SELECT \* FROM user where email = ?"

#### 4. Password Reset

#### a. Class Diagram



# b. Class Specifications resetPasswordController

No	Method	Description
1	doGet()	Handle get request
2	doPost()	Handle post request

#### **UserDAO**

No	Method	Description
1	resetPassword()	send reset password link via user's email

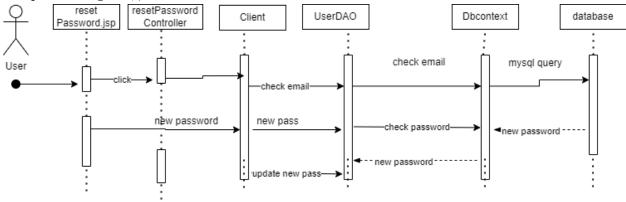
#### Validation

No	Method	Description
1	checkFormatPassw ord()	Check the new password matches the overriding program pattern

#### **DbContext**

No	Method	Description
1	-connectD B()	Connect program to database

# c. Sequence Diagram(s)



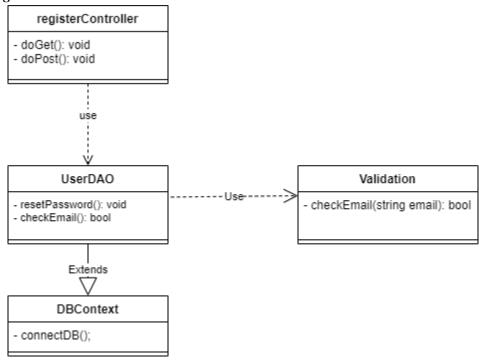
# d. Database queries

Query 1:

"SELECT \* FROM user where email = ?"

# 5. User Register

#### a. Class Diagram



# b. Class Specifications

# register Controller

No	Method	Description
1	doGet()	Handle get request
2	doPost()	Handle post request

#### **UserDAO**

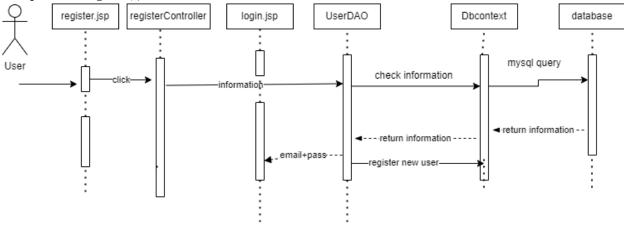
No	Method	Description
1	registerUser()	add new User
2	checkEmail()	check email is existed in database

#### Validation

No	Method	Description
1	checkFormatPassw ord()	Check the new password matches the overriding program pattern
2	checkEmail()	Check email format?

#### **DbContext**

No	Method	Description
1	-connectDB()	Connect program to database



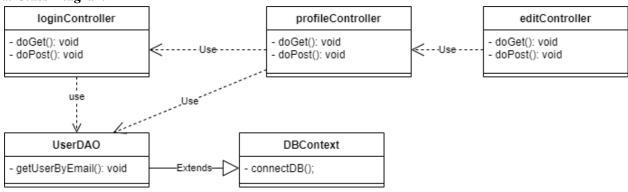
#### d. Database queries

Query 1:

"SELECT \* FROM user where email = ? "
Query 2:

#### 6. User Profile

# a. Class Diagram



# b. Class Specifications

### LoginController

No	Method	Description
1	doGet()	Handle get request
2	doPost()	Handle post request

#### profileController

<sup>&</sup>quot;Update user set password=? where email=?"

No	Method	Description
1	doGet()	Handle get request
2	doPost()	Handle post request

#### edit Controller

No	Method	Description
1	doGet()	Handle get request
2	doPost()	Handle post request

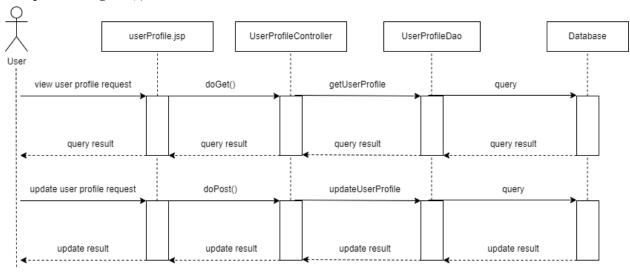
#### **UserDAO**

No	Method	Description
1	getUserByEmail()	Get all data from user table which have the identified email

#### **DbContext**

No	Method	Description
1	-connectDB()	Connect program to database

# c. Sequence Diagram(s)



#### d. Database queries

#### Query 1:

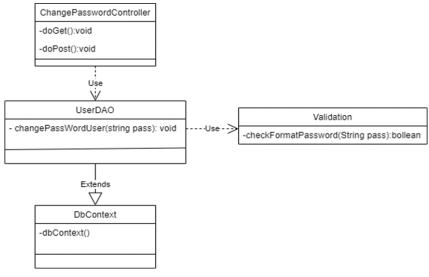
"SELECT \* FROM user where email = ? and password = ?"

#### Query 2:

"Update user set ? = ? where email=? and password=? "

# 7. Change Password

# a. Class Diagram



# b. Class Specifications

# ChangePasswordControler Class

#### Class Methods

No	Method	Description
01	doGet()	Get the information(old password ,user id) about user
02	doPost()	Send the new password user want to change to controller  Redirect

UserDAO Class

No	Method	Description
01	changePassWordUser	Save password user want to change

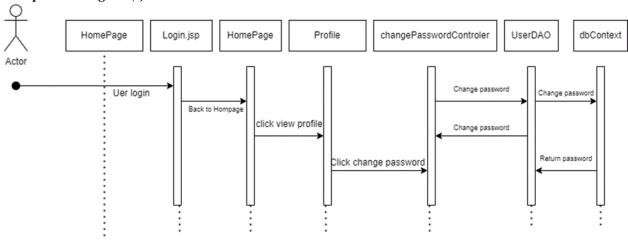
#### Validation Class

No	Method	Description
01	checkFormatPasswor d()	Check the new password matches the overriding program pattern

#### **DbContext Class**

N	0	Method	Description
0.	1	-dbContext	Connect program to database

# c. Sequence Diagram(s)

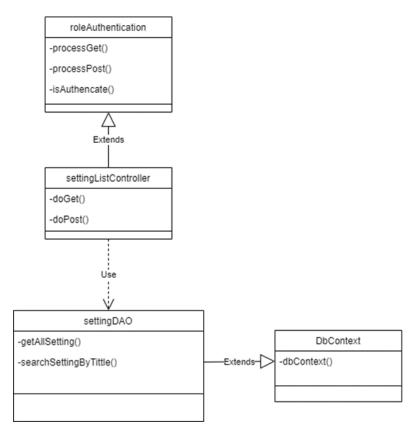


# d. Database Queries

**UPDATE** User **SET** Password=? **WHERE** ID = 6;

# 8. Setting List

# a. Class Diagram



# b. Class Specifications

#### roleAuthentication Class

No	Method	Description
01	isAuthencate	Get the role of the account in session and check if the role matches or not

# settingListControler Class

#### Class Methods

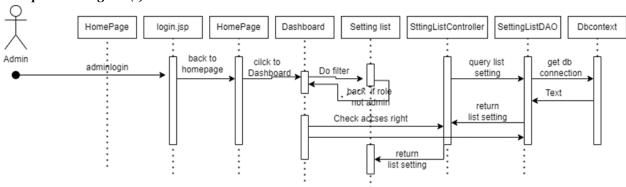
No	Method	Description
01	doGet()	Redirect
02	doPost()	Send the all settingList from database to frontend
		Redirect

# settingDAOClass

No	Method	Description
01	getAllSetting()	Get all data about setting from database
02	updateSettingByID()	Update setting in database
03	searchSettingByTittl e()	Find and return setting have tittle the same user input

# **DbContext Class**

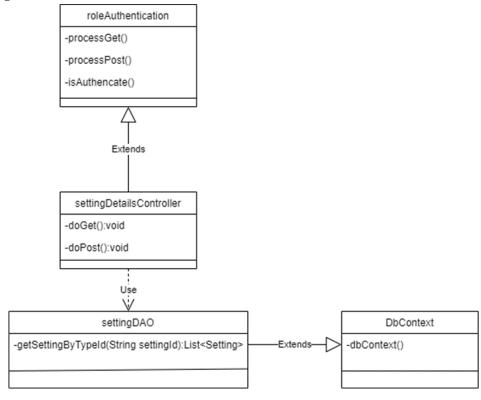
No	Method	Description
01	-dbContex t()	Connect program to databse



#### d. Database Queries

#### **Select \* from settinglist**

- 9. Setting Details
- a. Class Diagram



# b. Class Specifications

#### roleAuthentication Class

No	Method	Description
01	<i>isAuthencate</i>	Get the role of the account in session and check if the role matches or not

# settingDeatilsControler Class

# Class Methods

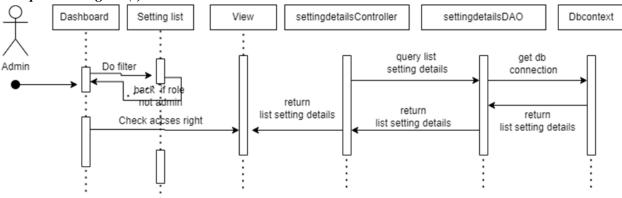
No	Method	Description	
01	doGet()	Redirect	
02	doPost()	Send the all settingList have the same settingId from database to frontend	
		Redirec	

# settingtDAOClass

No	Method	Description
01	getSettingByTypeI d()	Get all settingList have the same settingId from database setting from database

#### **DbContext Class**

No	Method	Description
01	-dbContext	Connect program to databse

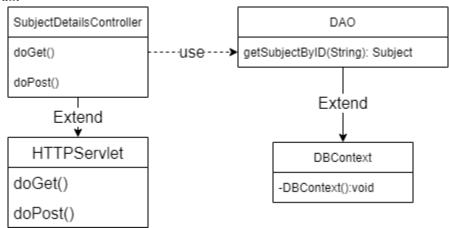


#### d. Database Queries

Select \* from settinglist where setting\_id = ?

#### 10. Subject Details

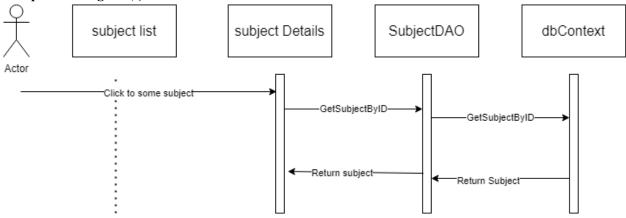
#### a. Class Diagram



# b. Class Specifications

Class SubjectDAO:

No	Method	Desciption
1	getSubjectById	Get a subject have subject_ID equals to input

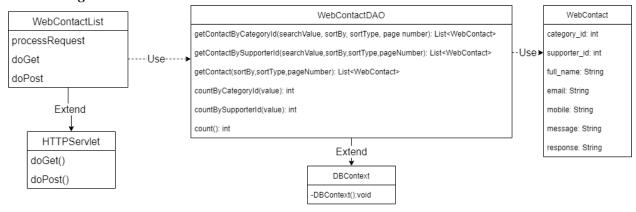


#### d. Database Queries

Select \* from subject where subject\_id= ?

#### 11. Web Contact List

#### a. Class Diagram



#### b. Class Specifications

Class WebContactListController:

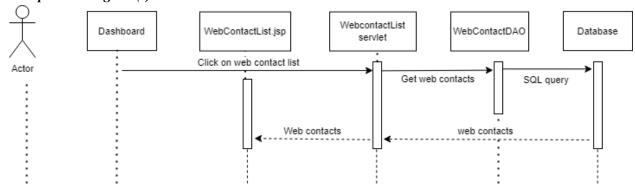
1	doGet()	Process and send data to webcontactlist.jsp
2	doPost()	

# Class WebContactListDAO:

No	Method	Description
1	getContactByCategoryId()	Get contacts have categoryId= searchValue
		And sort them by option of user
2	getContactBySupporterId()	Get contacts have supporterId= searchValue  And sort them by option of user
3	getContact()	Get contacts and sort them by option of user
4	countByCategoryId()	Count the number of contact have category_id = input value and return maximum of page number
5	countBySupporterId()	Count the number of contact have supporter_id= input value and return maximum of page number
6	count()	Count the number of contact and return maximum of page number

Class DBContext: Connect to database

Class WebContact: Contains the information webcontact



#### d. Database Queries

SELECT \* FROM web\_contact WHERE category\_id=? ORDER BY category\_id desc LIMIT 5 OFFSET ?

SELECT \* FROM web\_contact WHERE supporter\_id=? ORDER BY category\_id desc LIMIT 5 OFFSET ?

SELECT \* FROM web\_contact ORDER BY category\_id desc\_LIMIT 5 OFFSET ?

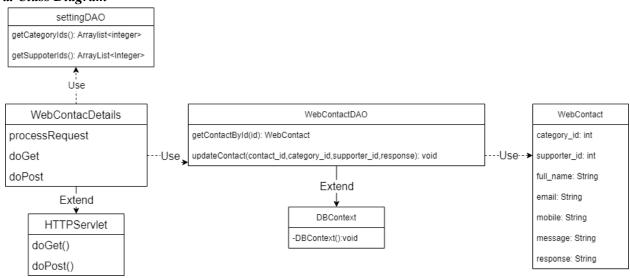
select count(\*) as numberRecord from web contact where category id=?

select count(\*) as numberRecord from web\_contact where supporter\_id=?

select count(\*) as numberRecord from web contact

#### 12. Web Contact Details

#### a. Class Diagram



# b. Class Specifications

#### Class WebContactDetailsController:

No	Method	Description
1	doGet()	Process, send data to webcontactdetails.jsp
2	doPost()	Update web contact, send message to webcontactdetails.jsp

# Class WebContactListDAO:

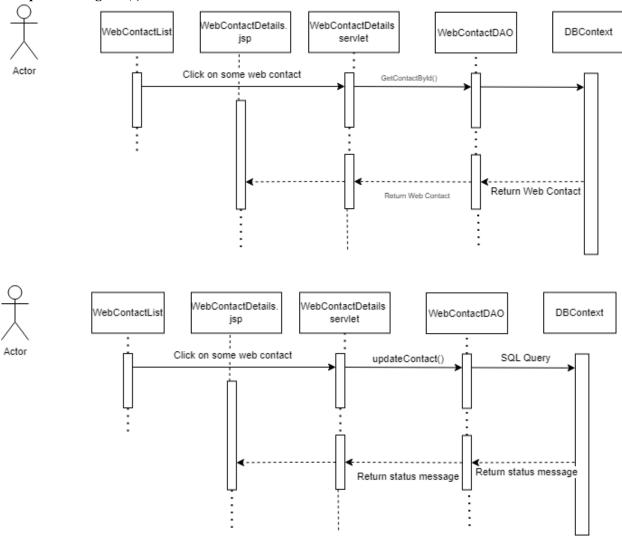
No	Method	Description
1	getContactById()	Get and return the contact have id= input value
2	updateContact()	update web contact

# Class settingDAO:

No	Method	Description
1	getCategoryIds()	get all category_id in database
2	getSuppoterIds()	get all id of user have role is supporter

Class DBContext: Connect to database

Class WebContact: Contains the information webcontact

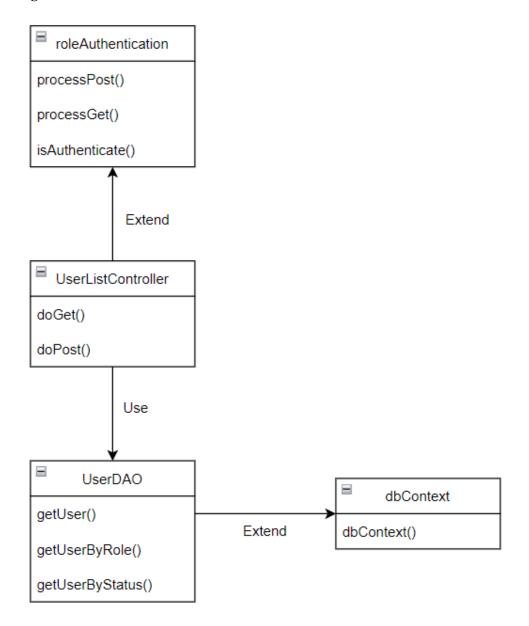


# d. Database Queries

update web\_contact set category\_id=?, supporter\_id=?, response=? where contact\_id=? select \* from web\_contact where contact\_id=? select \* from setting where type\_id=2

#### 13. User List:

#### a. Class Diagram:



# b. Class Specifications

Class UserListController

No	Method	Description
1	doGet()	Get the information of User for front-end

2	doPost()	Edit a User
	-	

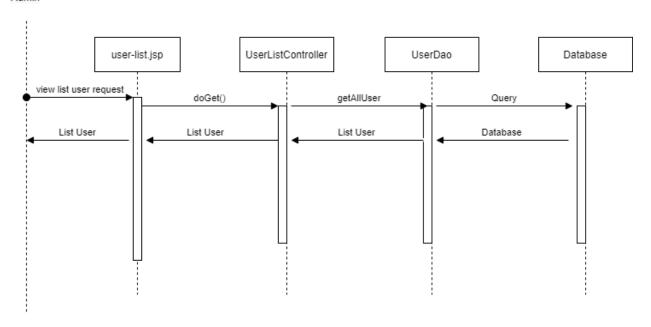
#### Class UserDAO:

No	Method	Description
1	getUser()	Get all Users.
2	getUserByType()	Get all User by this Type
3	getUserByStatus()	Get all User by Status

Class DBContext: Connect to database

#### c. Sequence Diagram(s)

Admin



# d. Database queries

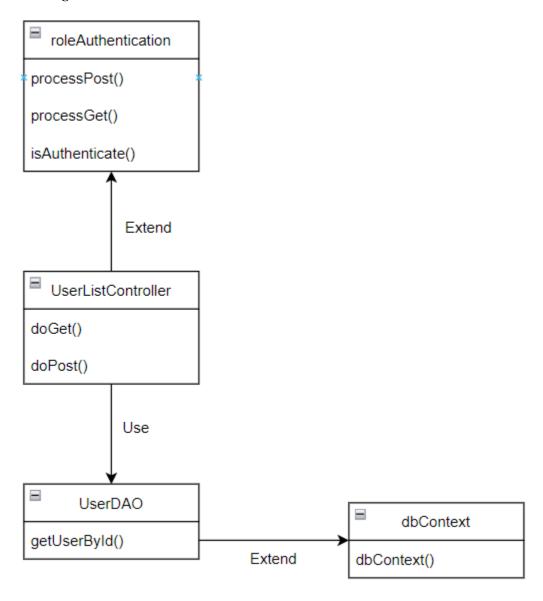
Select \* from User

Select \* from User where user\_role = ?

Select \* from where user\_status = ?

#### 14. User Details:

#### a. Class Diagram:

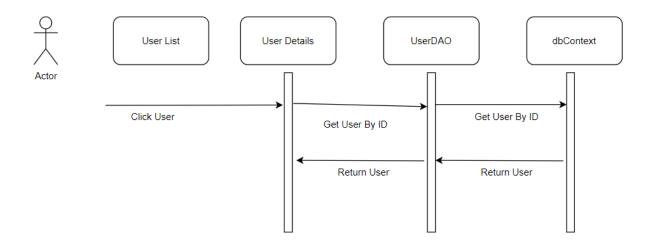


# b. Class Specifications:

Class UserDAO:

No	Method	Description
1	getUserById	Get a User have ID equals to input

## c. Sequence Diagram(s):

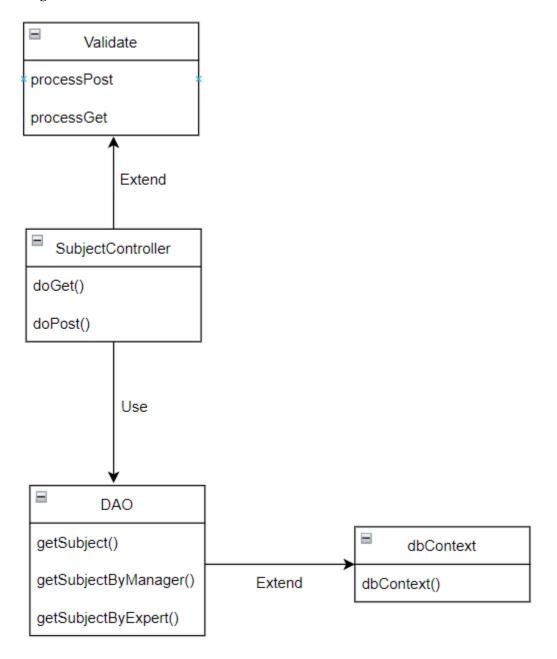


# d. Database Queries

Select \* from User where user\_id = ?

## 15. Subject List:

## a. Class Diagram



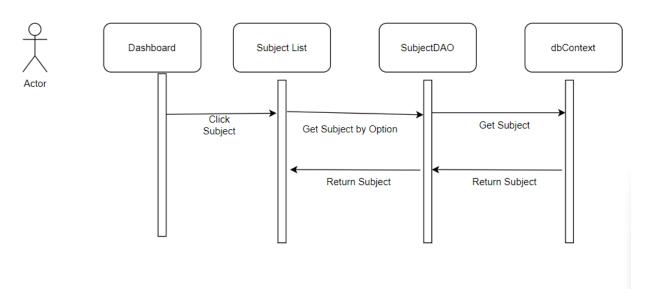
## b. Class Specifications

Class SubjectDAO:

No Method Description
-----------------------

1	getSubject	Get all subject
2	getSubjectByManager	Get subject by manager
3	getSubjectByExpert	Get subject by expert

## c. Sequence Diagram(s)



## d. Database Queries:

Select \* from Subject

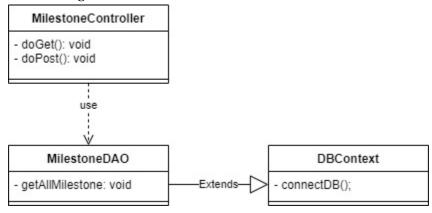
Select \* from Subject where manager\_id = ?

Select \* from Subject where expert\_id = ?

Select \* from Subject where status = ?

#### **16. Milestone List:**

## a. Class Diagram

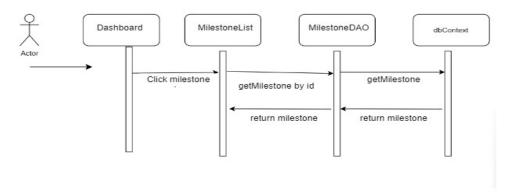


## b. Class Specifications

Class MilestoneDAO:

No	Method	Description
1	getAllMilestone	Get all milestone

## c. Sequence Diagram(s)

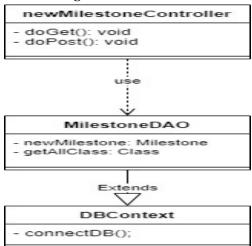


## d. Database Queries:

select \* from milestone

#### 17. New Milestone:

#### a. Class Diagram

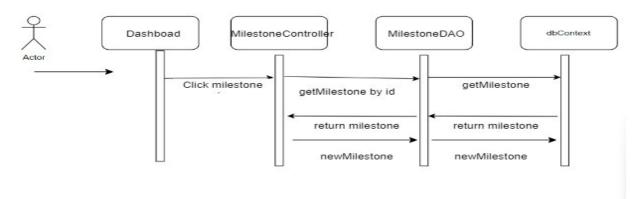


### b. Class Specifications

#### Class MilestoneDAO:

	3V011421101	
No	Method	Description
1	newMilestone	Create new Milestone
2	getAllClass	Get all class

## c. Sequence Diagram(s)



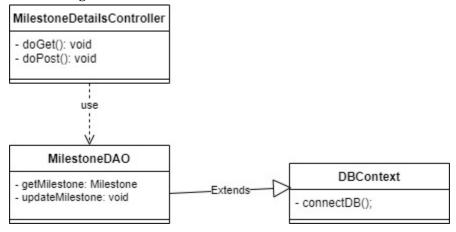
#### d. Database Queries:

select \* from class

insert into milestone (?,?,?,?,?,?) values (?,?,?,?,?,?)

#### 18. Milestone Details:

#### a. Class Diagram

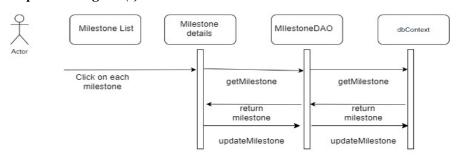


#### b. Class Specifications

## Class SubjectDAO:

No	Method	Description
1	getMilestone	get milestone by milestone_id
2	updateMilestone	update information
3	deleteMilestone	delete a milestone

#### c. Sequence Diagram(s)



#### d. Database Queries:

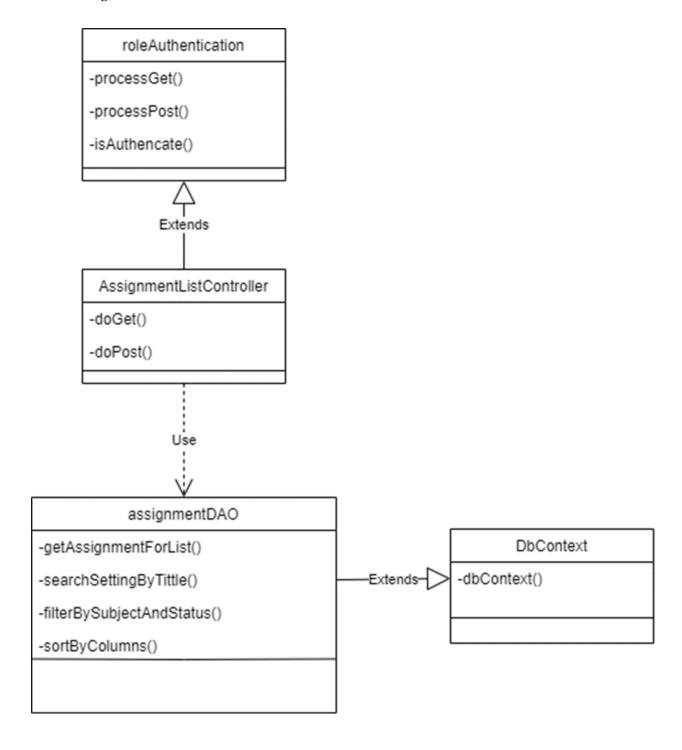
select \* from milestone where milestone\_id = ?

update milestone set ? = ? where milestone\_id = ?

delete from milestone where milestone\_id = ?

#### 19. Assitment List

#### a. Class Diagram



#### b. Class Specifications

# roleAuthentication Class

No	Method	Description
01	isAuthencate	Get the role of the account in session and check if the role matches or not

# settingListControler Class

## Class Methods

No	Method	Description
01	doGet()	Redirect
02	doPost()	Send the all assignment List from database to frontend
		Redirect

# settingDAOClass

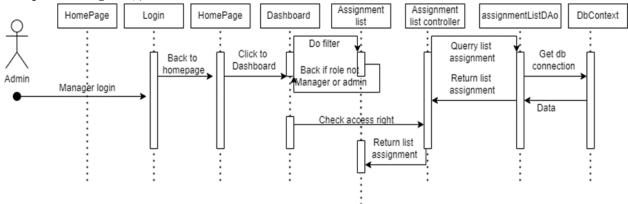
No	Method	Description
01	getAssignmentForList()	Get all assignment by paging from database
02	searchSettingByTittle()	Find and return assignment have tittle the same user input
03	filterBySubjectAndStatus ()	Find and return assignment have subject and status the same user input in filter

04	sortByColumns()	Sort data by columns

#### **DbContext Class**

No	Method	Description
01	-dbContext()	Connect program to database

## c. Sequence Diagram(s)

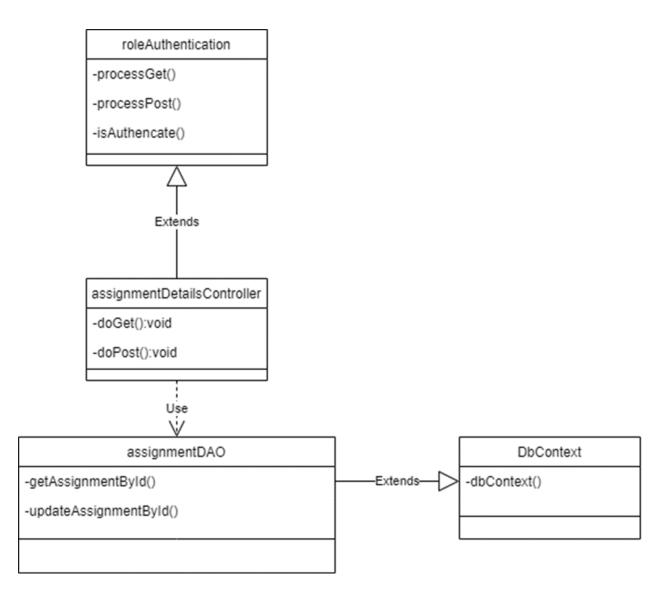


### d. Database Queries:

```
select * from assignment limit ? offset ?
select * from assignment order by " + type + " limit ? offset ?
select * from assignment where assignment_title like ? limit ? offset ?
select * from assignment where status = ? and subject = ?
```

#### 20. Assignment Details:

#### a. Class Diagram



## b. Class Specifications

#### roleAuthentication Class

No	Method	Description
01	isAuthencate	Get the role of the account in session and check if the role matches or not

## settingDeatilsControler Class

#### Class Methods

No	Method	Description
01	doGet()	Redirect
02	doPost()	Send assignment have the same Id from database to frontend
		Redirec

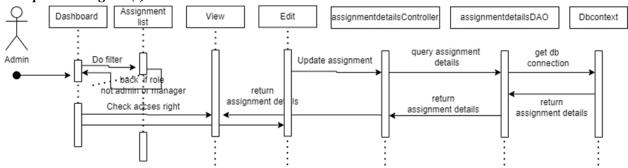
# settingtDAOC lass

No	Method	Description
01	-getAssignmentById()	Get assignment have the same Id from database setting from database
02	-updateAssignmentByld()	Update assignment by id

## **DbContext Class**

No	Method	Description
01	-dbContext()	Connect program to databse

#### c. Sequence Diagram(s)

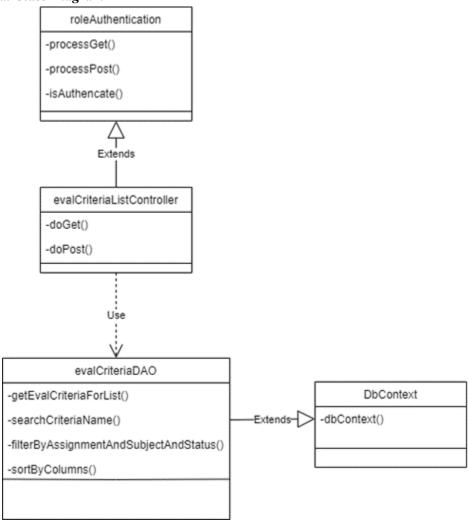


#### d. Database Queries:

Select \* from assignment where assignment id = ?

#### 21. Eval Criteria List:

#### a. Class Diagram



## b. Class Specifications

## roleAuthentication Class

No	Method	Description
01	isAuthencate	Get the role of the account in session and check if the role matches or not

# settingListControler Class

# Class Methods

No	Method	Description
01	doGet()	Redirect
02	doPost()	Send the all eval criteria List from database to frontend
		Redirect

# settingDAOClass

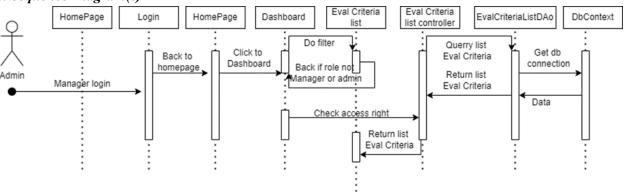
No	Method	Description
01	-getEvalCriteriaForList()	Get all eval criteria by paging from database
02	-searchCriteriaName()	Find and return eval criteria have name the same user input

03	-filterByAssignmentAndSubjectAndStatus()	Find and return eval criteria have assignment, subject and status the same user input in filter
04	sortByColumns()	Sort data by columns

#### **DbContext Class**

No	Method	Description
01	-dbContext()	Connect program to database

### c. Sequence Diagram(s)

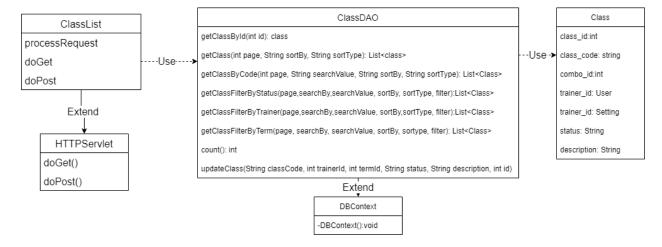


#### d. Database Queries:

```
select * from eval_criteria limit ? offset ?
select * from eval_criteria order by " + type + " limit ? offset ?
select * from eval_criteria where eval_criteria _name like ? limit ? offset ?
select * from eval_criteria where status = ? and subject = ? and assignment = ?
```

#### 22. Class List:

#### a. Class Diagram



#### b. Class Specifications

#### Servlet ClassList:

No	Method	Description
1	doGet()	Process and send data to classlist.jsp
2	doPost()	

#### Class ClassDAO:

No	Method	Description
1	getClassById(int id): class	Get class have class_Id= input id  And sort them by option of user
2	getClass(int page, String sortBy, String sortType): List <class>()</class>	Get list class in page and sort them by option of user

3	getClassByCode(int page, String searchValue, String sortBy, String sortType): List <class>()</class>	Get all class have code contain searchValue and sort them by option of user
4	getClassFilterByStatus(page,s earchBy,searchValue, sortBy, sortType, filter):List <class>()</class>	Filter classes by status:
5	getClassFilterByTrainer(page, searchBy,searchValue, sortBy,sortType, filter):List <class></class>	Filter classes by trainer
6	getClassFilterByTerm(page, searchBy, searchValue, sortBy, sortype, filter): List <class></class>	Filter classes by term
7	count(): int	Count and return the total number of page.
8	updateClass( classCode, trainerId, termId, String, String description, int id)	Update a class.

Class DBContext: Connect to database

Class Class: Contains the information of class

c. Sequence Diagram(s)

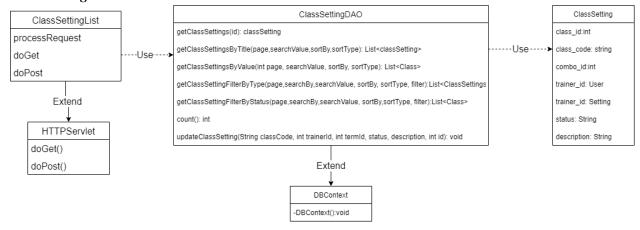
## d. Database Queries:

#### 23. Class details:

- a. Class Diagram
- b. Class Specifications
- c. Sequence Diagram(s)
- d. Database Queries:

#### 24. Class Setting List:

#### a. Class Diagram



## b. Class Specifications

## Servlet ClassSettingList:

No	Method	Description
1	doGet()	Process and send data to classsettinglist.jsp
2	doPost()	

## Class ClassSettingListDAO:

No	Method	Description
1	getClassSettings(id)	Get class setting have id= searchValue
		And sort them by option of user

	-	
2	getClassSettingsByTitle(page, searchValue,sortBy,sortType):	Get contacts have title contains searchValue  And sort them by option of user
3	getClassSettingsByValue(int page, searchValue, sortBy, sortType): List <class></class>	Get contacts have value contains the search value and sort them by option of user
4	getClassSettingFilterByType(p age,searchBy,searchValue, sortBy, sortType, filter):List <classsettings></classsettings>	filter classsetting by type, and sort them by option of user
5	getClassSettingFilterByStatus( page,searchBy,searchValue, sortBy,sortType, filter)	filter classsetting by status, and sort them by option of user
6	count()	Count the number of class setting and return maximum of page number
7	updateClassSetting(String classCode, int trainerId, int termId, status, description, int id)	Update a class setting.

Class DBContext: Connect to database

Class Classseting: Contains the information class setting

#### c. Sequence Diagram(s)

#### d. Database Queries:

SELECT \* FROM class\_setting WHERE setting\_value like ? and status=? ORDER BY type\_id\_fk desc\_LIMIT 5 OFFSET ?

SELECT \* FROM class\_setting WHERE setting\_value like ? and status=? ORDER BY type\_id\_fk asc\_LIMIT 5 OFFSET ?

SELECT \* FROM class\_setting WHERE setting\_value like ? and status=? ORDER BY setting\_title desc\_LIMIT 5 OFFSET ?

SELECT \* FROM class\_setting WHERE setting\_value like ? and status=? ORDER BY setting\_title asc\_LIMIT 5 OFFSET ?

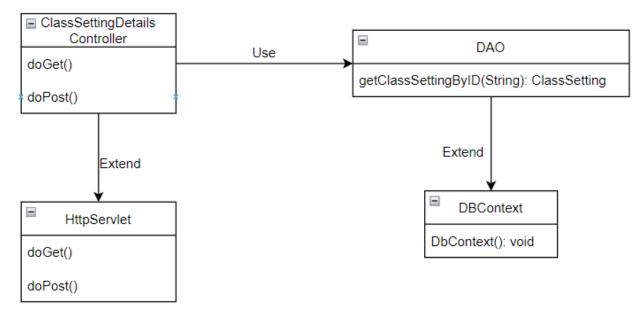
SELECT \* FROM class\_setting WHERE setting\_value like ? and status=? ORDER BY setting\_value asc LIMIT 5 OFFSET ?

SELECT \* FROM class\_setting WHERE setting\_value like ? and status=? ORDER BY setting\_value desc LIMIT 5 OFFSET ?

SELECT \* FROM class\_setting WHERE setting\_value like ? and status=? ORDER BY display\_order asc LIMIT 5 OFFSET ?

#### 25. Class Setting Details:

#### a. Class Diagram:

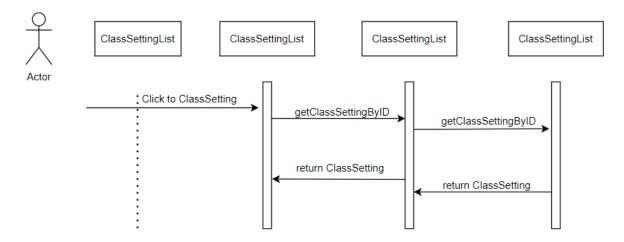


#### b. Class Specifications:

#### Class ClassSettingDAO:

No	Method	Description
1	getClassSettingByID	Get a subject have seting_ID equals to input

#### c. Sequence Diagram(s):



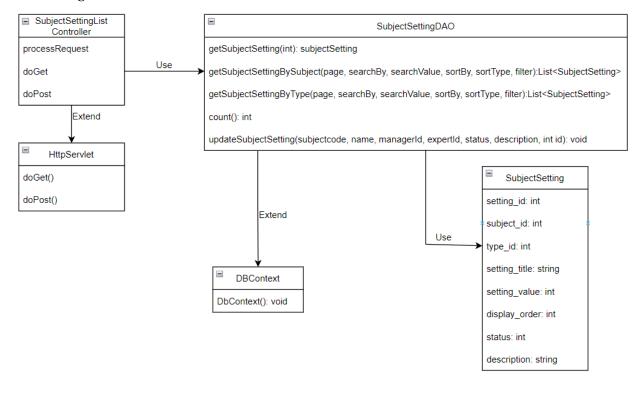
#### d. Database Queries:

Select \* from class\_setting where setting\_id = ? order by setting\_id desc LIMIT 5 OFFSET ?

Select \* from class setting where setting id = ? order by setting id asc LIMIT 5 OFFSET ?

#### 26. Subject Setting List:

#### a. Class Diagram:



# b. Class Specifications:

# SubjectSettingList:

No	Method	Description
1	doGet()	Process and send data to classsettinglist.jsp
2	doPost()	

# SubjectSettingListDAO:

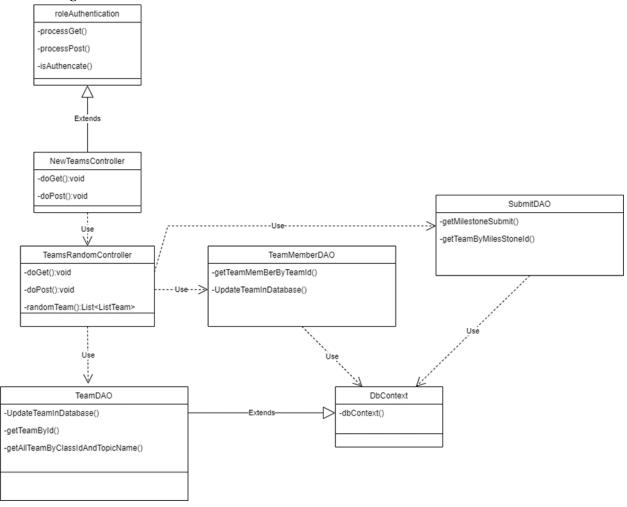
No	Method	Description
1	getSubjectSetting(id)	Get subject setting have id = searchValue  And sort them by option of user
2	getSubjectSettingBySubject(p age,searchBy,searchValue, sortBy, sortType, filter):List <subjectsettings></subjectsettings>	filter subject setting by subject, and sort them by option of user
3	getSubjectSettingByType(pag e,searchBy,searchValue, sortBy,sortType, filter)	filter subject setting by type, and sort them by option of user
6	count()	Count the number of subject setting and return maximum of page number
7	updateSubjectSetting(subjectc ode, name, managerId, expertId, status, description, int id)	Update a subject setting.

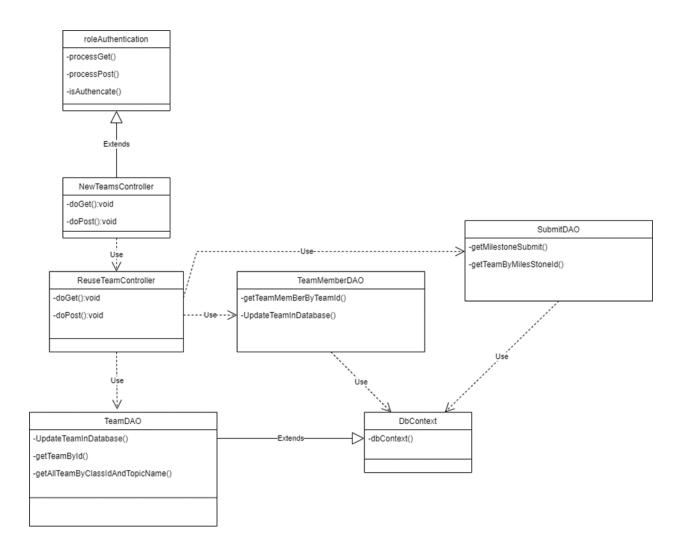
DBContext: Connect to database
SubjectSetting: Contains the information subject setting
c. Sequence Diagram(s):
<pre>d. Database Queries: SELECT * FROM subject_setting WHERE setting_value like ? and status=? ORDER BY type_id desc LIMIT 5 OFFSET ?</pre>
SELECT * FROM subject_setting WHERE setting_value like ? and status=? ORDER BY type_id asc LIMIT 5 OFFSET ?
SELECT * FROM subject_setting WHERE setting_value like ? and status=? ORDER BY subject_id desc LIMIT 5 OFFSET ?
SELECT * FROM subject_setting WHERE setting_value like ? and status=? ORDER BY subject_id asc LIMIT 5 OFFSET ?
27. Subject Setting Details:
a. Class Diagram:
b. Class Specifications:
c. Sequence Diagram(s):
d. Database Queries:
28. System Permission:
a. Class Diagram:
b. Class Specifications:
c. Sequence Diagram(s):
d. Database Queries:
29. User Authorization: a. Class Diagram:
b. Class Specifications:

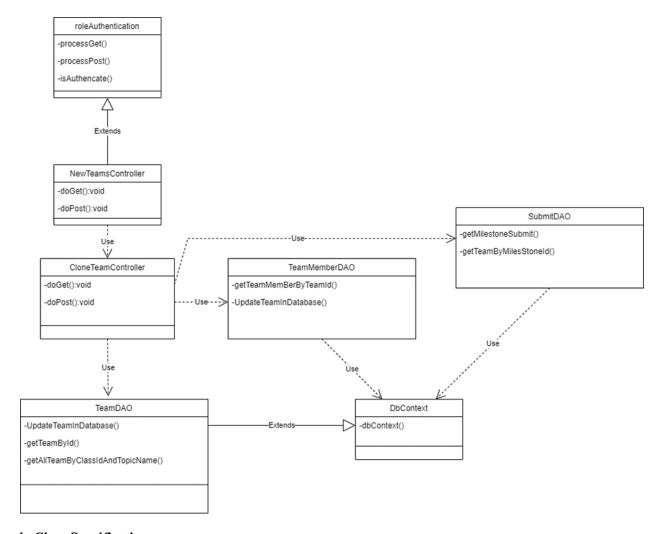
c. Sequence Diagram(s):
d. Database Queries:
30. Eval-Criteria Details: a. Class Diagram:
b. Class Specifications:
c. Sequence Diagram(s):
d. Database Queries:
31. Class Eval-Criteria List: a. Class Diagram:
b. Class Specifications:
c. Sequence Diagram(s):
d. Database Queries:
32. Class Eval-Criteria Details:
a. Class Diagram:
b. Class Specifications:
c. Sequence Diagram(s):
d. Database Queries: 33.New Teams

#### 33.New Teams:

#### a. Class Diagram:







## b. Class Specifications:

#### **NewTeamsControllerClass**

#### Class Methods

No	Method	Description
01	doGet()	Send the number student in a class
02	doPost()	

#### TeamsRandomControllerClass

No Method Description	Description	o N	No	
-----------------------	-------------	-----	----	--

01	doGet()	Save change the team create by rom to database. Send the data to team list
02	doPost()	Send the team create by random to the newteams.jsp for display the information of the team
03	randomTeam()	Random the user of class to the team list. And the data pf the random team is a user of class in a random team order from top to bottom

## **TeamMemberDAO**

No	Method	Description
01	-getTeamMemBerByTeamId()	Get the user of the team
02	-UpdateTeamInDatabase()	Save the member team to database

## ReuseTeamDAO

No	Method	Description
01	-doGet ()	Sen to the team list
02	-doPost ()	Get team and team member already already in the database of a class in an assignment

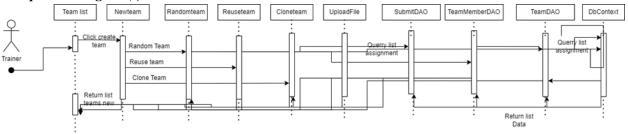
## CloneTeamDAO

No	Method	Description
01	-doGet ()	Save the team and member team to the database, create a new record in data base like a old team but change the team name and update topic name
02	-doPost ()	Get team and team member already already in the database of a class in an assignment

## **TeamDAO**

No	Method	Description
01	-UpdateTeamInDatabase()	Save the team to database
02	-getTeamById()	Get the team id for User of team
03	-getAllTeamByClassIdAndTopicName()	Get the team by class id ang the topic name

# c. Sequence Diagram(s):



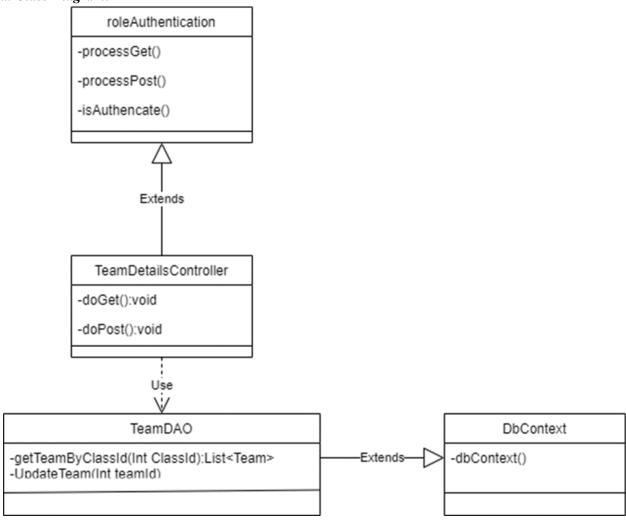
# d. Database Queries:

select \* from class\_user

```
select * from submit where milestone_id_su_fk =?
select distinct milestone_id_su_fk from submit
INSERT INTO `swp391`.`team_member`\n"
       + "(`team_id_tm`,\n"
       + "`user_id_tm`,\n"
       + "`is_leader`,\n"
       + "`is_active`)\n"
       + "VALUES\n"
       + "(?,?,?,?);"
SELECT * FROM swp391.team_member where team_id_tm = ?
INSERT INTO `swp391`.`team`\n"
       + "(`class_id_team`,\n"
       + "`team_code`,\n"
       + "`topic_name`,\n"
        + "`status`,\n"
       + "`description`)\n"
       + "VALUES\n"
       + "(?,?,?,?);
SELECT * FROM swp391.team where team_id = ?
```

#### 34. Team details:

#### a. Class Diagram:



## b. Class Specifications:

#### roleAuthentication Class

No	Method	Description
01	isAuthencate	Get the role of the account in session and check if the role matches or not

#### TeamDeatilsControler Class

#### Class Methods

No	Method	Description
01	doGet()	Redirect
02	doPost()	Send the all settingList have the same settingId from database to frontend
		Redirec

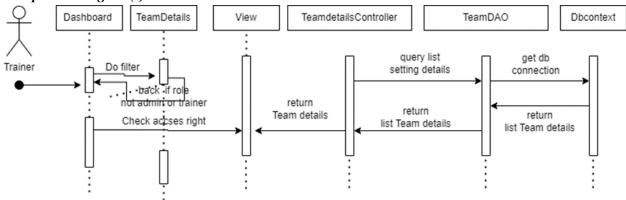
## **TeamDAOClass**

No	Method	Description
01	getSettingByTypeId()	Get all TeamList have the same ClassId from database setting from database
02	-UpdateTeam(Int teamId)	Update team id

## **DbContext Class**

No	Method	Description
01	-dbContext()	Connect program to databse

## c. Sequence Diagram(s):



### d. Database Queries:

```
Select * from team where class_id = ?

UPDATE `swp391`.`team`

SET

`team_id` = ?,

`class_id_team` = ?,

`team_code` = ?,

`topic_name` = ?,

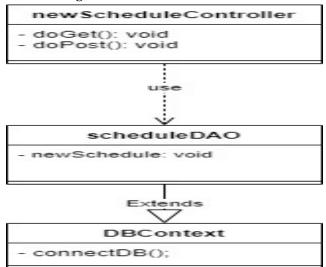
`status` = ?,

`description` = ?,

WHERE `team_id` = ?
```

#### 35. Schedule details:

#### a. Class Diagram

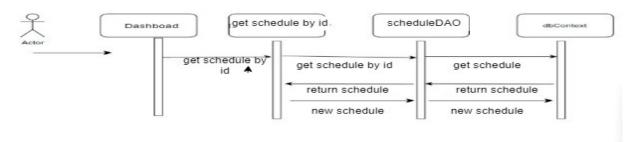


#### b. Class Specifications

## Class scheduleDAO:

No	Method	Description
1	newSchedule	Create new Schedule

## c. Sequence Diagram(s)

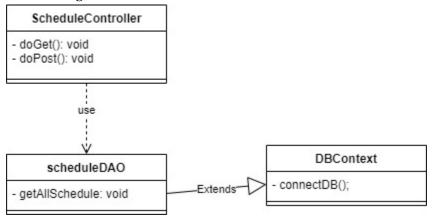


## d. Database Queries:

insert into schedule(?,?,?,?,?,?) values (?,?,?,?,?,?,?)

#### **36. Schedule List:**

#### a. Class Diagram

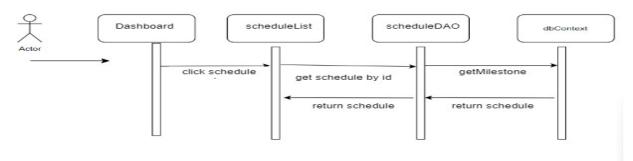


# b. Class Specifications

## Class scheduleDAO:

No	Method	Description
1	getAllSchedule	list all schedule with paging

## c. Sequence Diagram(s)

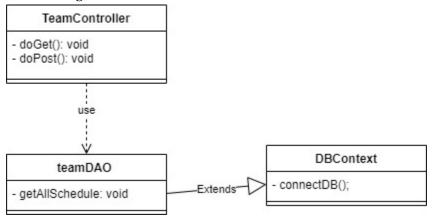


## d. Database Queries:

select \* from schedule

#### 37. Team List:

## a. Class Diagram

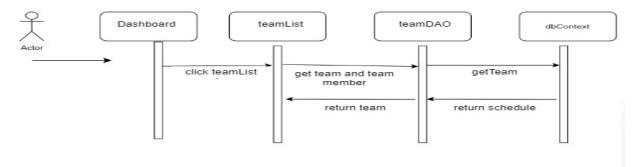


## b. Class Specifications

## Class TeamDAO:

No	Method	Description
1	getAllteam	Get all team

## c. Sequence Diagram(s)

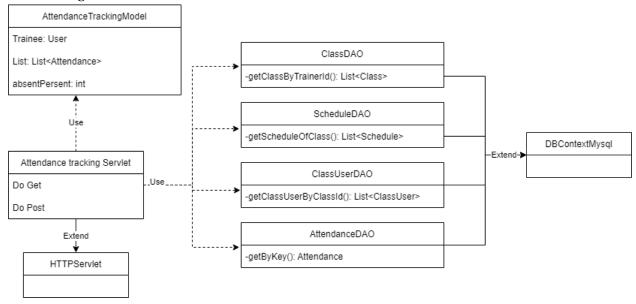


## d. Database Queries:

select \* from team

## 38. Attendance Tracking:

#### a. Class Diagram



# b. Class Specifications

#### Class AttendanceDAO:

No	Method	Description
1	getByKey	get attendance by, class schedule and trainee

## Class ScheduleDAO:

No	Method	Description
1	getScheduleOfClass	get all schedule of a class by its id

#### Class ClassUserDAO:

No	Method	Description
1	getClassUserByClassId	Get all trainee id of a class

#### Class ClassDAO:

No	Method	Description
1	getClassByTrainerId	Get all class of a trainer

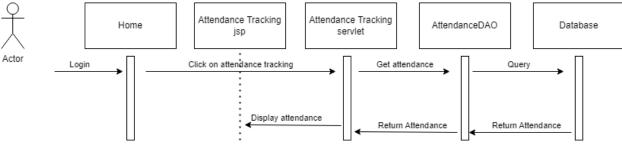
Attendance tracking servlet:

No	Method	Description
1	doGet	Get, process data and send to front end
2	doPost	

AttendanceTrackingModel: Contain information of trainee, its attendance in all schedule of a class and the absent percentage

No	Properties	Description
1	Jugar	All information of user
1	user	All information of user
2	list	Attendance of this user in all schedule of a class
3	absent percent	Absent percent of user

## c. Sequence Diagram(s)



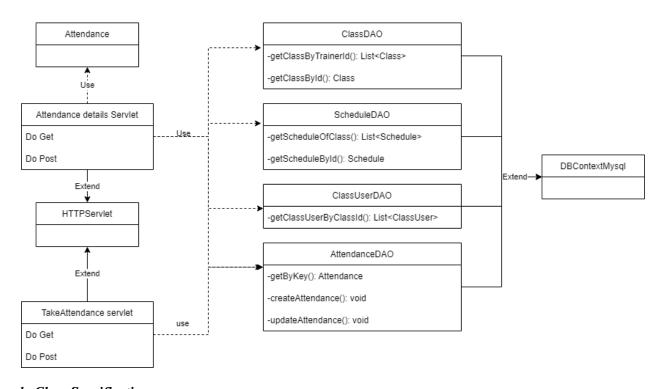
## d. Database Queries:

select \* from attendance where class\_id\_att=? and schedule\_id\_att=?

select \* from attendance where class\_id\_att=? and schedule\_id\_att=? and trainee\_id\_att=? select \* from class where trainer\_id=? select \* from class\_user where class\_user\_id\_fk=? select \* from schedule where class\_id\_schedule=?

#### 39. Attendance Details:

#### a. Class Diagram



#### b. Class Specifications

#### Class AttendanceDAO:

Judo I Wendunio Di I O.		
No	Method	Description
1	getByKey	get attendance by, class schedule and trainee
2	createAttendance	create new row in table attendance
3	updateAttendance	Update an attendance

## Class ScheduleDAO:

No	Method	Description
1	getScheduleOfClass	Get all schedule of a class by its id
2	getScheduleById	Get schedule by its id

## Class ClassUserDAO:

No	Method	Description
1	getClassUserByClassId	Get all trainee id of a class

# Class ClassDAO:

No	Method	Description
1	getClassByTrainerId	Get all class of a trainer
2	getClassById	Get class by its id

## Attendance Details servlet:

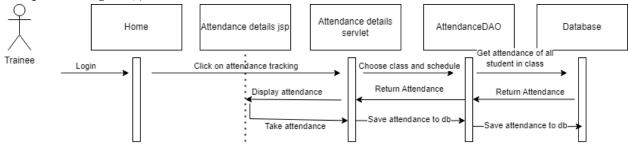
No	Method	Description
1	doGet	Get, process data and send to front end
2	doPost	

# Take Attendance servlet:

No	Method	Description
1	doGet	

2 doPost Get data from form and update to database

#### c. Sequence Diagram(s)



#### d. Database Queries:

select \* from attendance where class id att=? and schedule id att=?

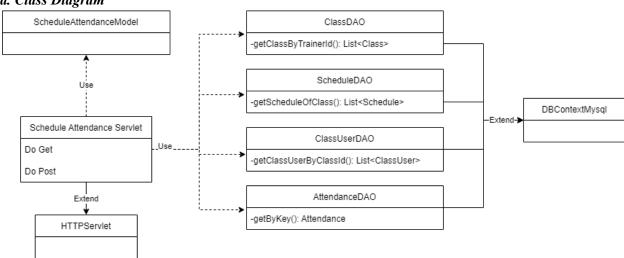
select \* from attendance where class\_id\_att=? and schedule\_id\_att=? and trainee\_id\_att=?

update attendance set status=?, comment=? where class\_id\_att=? and schedule\_id\_att=? and trainee id att=?

insert into attendance (class\_id\_att,schedule\_id\_att,trainee\_id\_att,status,comment) value (?,?,?,?)

#### 40. Schedule Attendance:

#### a. Class Diagram



## b. Class Specifications

## Class AttendanceDAO:

No	Method	Description
1	getByKey	get attendance by, class schedule and trainee

## Class ScheduleDAO:

No	Method	Description
1	getScheduleOfClass	get all schedule of a class by its id

## Class ClassUserDAO:

No	Method	Description
1	getClassUserByClassId	Get all trainee id of a class

# Class ClassDAO:

No	Method	Description
1	getClassByTrainerId	Get all class of a trainer

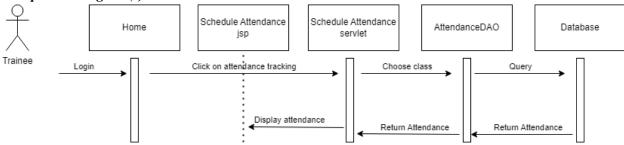
## Schedule Attendance servlet:

No	Method	Description
1	doGet	Get, process data and send to front end
2	doPost	

#### ScheduleAttendanceModel: Contain information of attendance and schedule

No	Properties	Description
1	slot	
2	training_date	
3	from_time	
4	to_time	
5	room	
6	attendance	
7	comment	

## c. Sequence Diagram(s)



## d. Database Queries:

select \* from attendance where class\_id\_att=? and schedule\_id\_att=?

select \* from attendance where class\_id\_att=? and schedule\_id\_att=? and trainee\_id\_att=?