

**TRAINING SUPPORT SYSTEM PROJECT**

**Software Design Specification**

– Hanoi, September 2022 –

**Record of changeS**

| **Date** | **A\* M, D** | **In charge** | **Change Description** |
| --- | --- | --- | --- |
| 10/09/2022 | A | DongNG | Create new SDS |
| 13/09/2022 | M | AnhNT | Spelling corrections and layout corrections |
| 13/09/2022 | M | HoangNM | Color correction for class diagrams |
| 13/09/2022 | M | LongCH | Color correction for admin/setting list |
| 13/09/2022 | M | NghiaLM | Correcting some points in web contact detail, web contact list |
| 15/09/2022 | M | LongCH | Change color code common login, register,admin/setting list  admin/setting details |
| 15/09/2022 | M | HoangNM | Update template home page |
| 13/10/2022 | A | AnhNT | Add design for Subject Setting Details, Assignment Details, Class Details |
| 23/10/20222022 | A | LongCh | Add Issue ListList |
| 23/10/20222022 | A | LongCh | Add Issue Detail |
| 23/10/20222022 | A | LongCh | Add Team List |
|  |  |  |  |
|  |  |  |  |

\*A - Added M - Modified D - Deleted

**Table of Contents**

[I. Overview](#_heading=h.gjdgxs) **8**

[1. Code Packages](#_heading=h.30j0zll) 8

[2. Database Design](#_heading=h.1fob9te) 9

[a. Database Schema](#_heading=h.3znysh7) 9

[b. Table Description](#_heading=h.2et92p0) 9

[II. Code Designs](#_heading=h.tyjcwt) **13**

[1. Common/Login](#_heading=h.3dy6vkm) 13

[a. Class Diagram](#_heading=h.1t3h5sf) 13

[b. Class Specifications](#_heading=h.4d34og8) 13

[c. Sequence Diagram](#_heading=h.oyv84sgys1u9) 14

[d. Database Queries](#_heading=h.17dp8vu) 14

[2. Common/Register](#_heading=h.3rdcrjn) 15

[a. Class Diagram](#_heading=h.a4sq8to7609b) 15

[b. Class Specification](#_heading=h.ixwtkxb2oz5t) 15

[c. Sequence Diagram](#_heading=h.iwta9v24fk3p) 16

[d. Database queries](#_heading=h.cvkfhswskchz) 17

[3. Admin/Setting List](#_heading=h.2aquhnz3ux87) 18

[a. Class Diagram](#_heading=h.2op5815npom0) 18

[b. Class Specification](#_heading=h.lv5llrv4belh) 19

[c. Sequence Diagram](#_heading=h.afqq7axmk8ul) 19

[d. Database queries](#_heading=h.2ets8sjfug7a) 20

[4. Admin/Setting Details](#_heading=h.7uqzyje5ewz) 20

[a. Class Diagram](#_heading=h.6u7w9k3uu0aa) 20

[b. Class Specification](#_heading=h.frlocs830ms4) 20

[c. Sequence Diagram](#_heading=h.ivluv7hnk3ns) 20

[d. Database queries](#_heading=h.ymgzj1vai924) 21

[5. Admin/User List](#_heading=h.3p0prlg4oe2j) 22

[a. Class Diagram](#_heading=h.9ko7wtyho8xt) 22

[b. Class Specification](#_heading=h.i6mk3m9a2z66) 22

[c. Sequence Diagram](#_heading=h.pxssduvuuet8) 23

[d. Database queries](#_heading=h.zdlmvxi3zqgm) 23

[6. Admin/User Detail](#_heading=h.o832xoa0frgp) 24

[a. Class Diagram](#_heading=h.o040i3hjjtbp) 24

[b. Class Specification](#_heading=h.jpqn3x7xnhrq) 24

[c. Sequence Diagram](#_heading=h.jz3zx2vkc1a1) 24

[d. Database queries](#_heading=h.iv57gp1jq7va) 26

[7. Common/Forgot Password](#_heading=h.fxwc1xtwkwm1) 26

[a. Class Diagram](#_heading=h.inyw8w7eb1tn) 26

[b. Class Specification](#_heading=h.y2z7yhj6c2d2) 27

[c. Sequence Diagram](#_heading=h.sxbn5z3cil2s) 27

[d. Database queries](#_heading=h.nu8qrlnfuynh) 28

[10. Common/Change Password](#_heading=h.ek57yjdwbxu) 28

[a. Class Diagram](#_heading=h.4rhawqejywhr) 28

[b. Class Specification](#_heading=h.s1yoxg8ga94f) 28

[c. Sequence Diagram](#_heading=h.gpzcsafret18) 29

[d. Database queries](#_heading=h.c0fzo99qbc61) 29

[11. Common/User profile](#_heading=h.qxmf2x3x0ns4) 29

[a. Class diagram](#_heading=h.th25gwcxwf8u) 29

[b. Class Specification](#_heading=h.bjbt9wjszdfc) 29

[c. Sequence diagram](#_heading=h.uo6e00bu2k3h) 30

[d. Database queries](#_heading=h.gxc979nzk4vh) 30

[12. Change password](#_heading=h.sz6d4lka1q7t) 31

[a. Class diagram](#_heading=h.thptgb7zi5xj) 31

[b. Class Specification](#_heading=h.wlqbgr4b03uw) 31

[c. Sequence Diagram](#_heading=h.78j7jplo3797) 32

[d. Database queries](#_heading=h.p4riqbel7it8) 32

[13. Support/ Web contact list](#_heading=h.99olpj5hq305) 32

[a. Class diagram](#_heading=h.m70yfi8gaxxg) 32

[b. Class Specification](#_heading=h.djt6yjqkqd2) 33

[c. Sequence Diagram](#_heading=h.3grb2rylgxmw) 33

[14. Support/ Web contact detail](#_heading=h.9kr10si6kdn4) 33

[a. Class diagram](#_heading=h.ycg2ncp0rcyl) 33

[b. Class Specification](#_heading=h.8wy6you3uiva) 34

[c. Sequence Diagram](#_heading=h.fx93wwhe0d8s) 35

[c. Sequence Diagram](#_heading=h.q46250t54hc) 35

[15. Eval criteria list](#_heading=h.gfo2q6qi4b3k) 36

[a. Class diagram](#_heading=h.u1l225l5vt1) 36

[b. Class Specification](#_heading=h.217he4ikwd6w) 36

[c. Sequence Diagram](#_heading=h.c4a7pg7ztkbk) 37

[d. Database queries](#_heading=h.xhqg4ejn55df) 37

[16. Subject Setting List](#_heading=h.6hrj5vbhqk0f) 38

[a. Class diagram](#_heading=h.z6ji23fya8nd) 38

[b. Class Specification](#_heading=h.1ety8bvjh1xb) 38

[c. Sequence Diagram](#_heading=h.3o8x1hvgyxkq) 38

[d. Database queries](#_heading=h.embfyyakmblh) 39

[17.Subject Setting Details](#_heading=h.tn8p3awry3l0) 39

[a. Class diagram](#_heading=h.k78r1v9rb9o7) 39

[b. Class Specification](#_heading=h.38devvrddli2) 39

[c. Sequence Diagram](#_heading=h.bxcct8oqp41c) 39

[d. Database queries](#_heading=h.95ophah83e2q) 39

[18.Eval criteria detail](#_heading=h.fl1ouggz8os6) 40

[a. Class diagram](#_heading=h.fd75kgcdewx9) 40

[b. Class Specification](#_heading=h.rufvv58gfium) 40

[c. Sequence Diagram](#_heading=h.3gdtif9p956t) 41

[d. Database queries](#_heading=h.er7jtbswxhig) 41

[19. Admin/System Permissions](#_heading=h.p7h6uln4ildz) 42

[a. Class diagram](#_heading=h.dw0ituxzzwzv) 42

[b. Class Specification](#_heading=h.wzgqe3kzqecn) 42

[c. Sequence Diagram](#_heading=h.lcycu3uf3drk) 43

[d. Database queries](#_heading=h.rlrrdhi02h4p) 43

[20. Assignment List](#_heading=h.b1suj0vtp2sh) 44

[a. Class diagram](#_heading=h.mf9ic5lrodbu) 44

[b. Class Specification](#_heading=h.ljue5h5meflw) 44

[c. Sequence Diagram](#_heading=h.r68dzsjd1fx1) 45

[d. Database queries](#_heading=h.neyjadfbjwin) 45

[21. Assignment Details](#_heading=h.sldd5n524noa) 45

[a. Class diagram](#_heading=h.8wun75mb5n0n) 45

[b. Class Specification](#_heading=h.4ymxlk97po78) 45

[c. Sequence Diagram](#_heading=h.3krd3jcoyivu) 46

[d. Database queries](#_heading=h.dy5gu586ftag) 46

[22. Milestone list](#_heading=h.u4igrg2jxgsu) 46

[a. Class diagram](#_heading=h.y9eoqmoqueon) 46

[b. Class Specification](#_heading=h.wet99kwnw2c4) 46

[c. Sequence Diagram](#_heading=h.lnb3ppd5gy17) 47

[d. Database queries](#_heading=h.y7y24k7sfq1w) 47

[23. Class List](#_heading=h.ze1p5zz77h8k) 47

[a. Class diagram](#_heading=h.icrt2zdtpbgh) 48

[b. Class Specification](#_heading=h.13y2w8y3zu6h) 48

[24. Class Details](#_heading=h.uyckv8hz16u) 49

[a. Class diagram](#_heading=h.tr062e2ddaya) 49

[b. Class Specification](#_heading=h.ah8993n3dfw8) 49

[b. Class Specification](#_heading=h.yczb9cticzr0) 50

[c. Sequence Diagram](#_heading=h.jge8hdn1ge63) 50

[d. Database queries](#_heading=h.wk11os1pca57) 51

[b. Class Specification](#_heading=h.aq253az90bwg) 52

[c. Sequence Diagram](#_heading=h.tr5wa7v085ng) 52

[26. Class eval criteria list](#_heading=h.kci8dmmye1hu) 53

[a. Class diagram](#_heading=h.gwxqvba2u5ni) 53

[b. Class Specification](#_heading=h.kamlbnit4b8a) 54

[c. Sequence Diagram](#_heading=h.dyf2ckm00r2s) 55

[d. Database queries](#_heading=h.270yjt6wd910) 55

[27. Class eval criteria details](#_heading=h.om6ilvngymnk) 56

[a. Class diagram](#_heading=h.8eenn0yb4r1n) 56

[b. Class Specification](#_heading=h.fd7jlf7h62qr) 56

[c. Sequence Diagram](#_heading=h.s0qgm2psrzbe) 57

[d. Database queries](#_heading=h.um1fhgbq69dq) 57

[28. Milestone details](#_heading=h.puk5kr3yu6z8) 58

[a. Class diagram](#_heading=h.uklp9od7mv30) 58

[b. Class Specification](#_heading=h.xka5n0nut2a8) 58

[c. Sequence Diagram](#_heading=h.v0gsgd7d986b) 59

[d. Database queries](#_heading=h.bdab2vumv31k) 59

[29.Team List](#_heading=h.6dyck3jhi2bn) 60

[a. Class diagram](#_heading=h.1mccj7oljx5i) 60

[b. Class Specification](#_heading=h.horz9jrah5ha) 60

[c. Sequence Diagram](#_heading=h.xy3s9nsj3is2) 61

[d. Database queries](#_heading=h.t3mtnmt3peb8) 62

[30.Schedule List](#_heading=h.4deb3btcm23w) 62

[a. Class diagram](#_heading=h.8732m4956i2g) 62

[b. Class Specification](#_heading=h.i2mu43eu3piw) 62

[c. Sequence Diagram](#_heading=h.ok5t8yqt02tn) 63

[d. Database queries](#_heading=h.233omscx177m) 63

[31. Schedule Detail](#_heading=h.fkh6x2p1iy2h) 63

[a. Class diagram](#_heading=h.8hklhydhubyq) 63

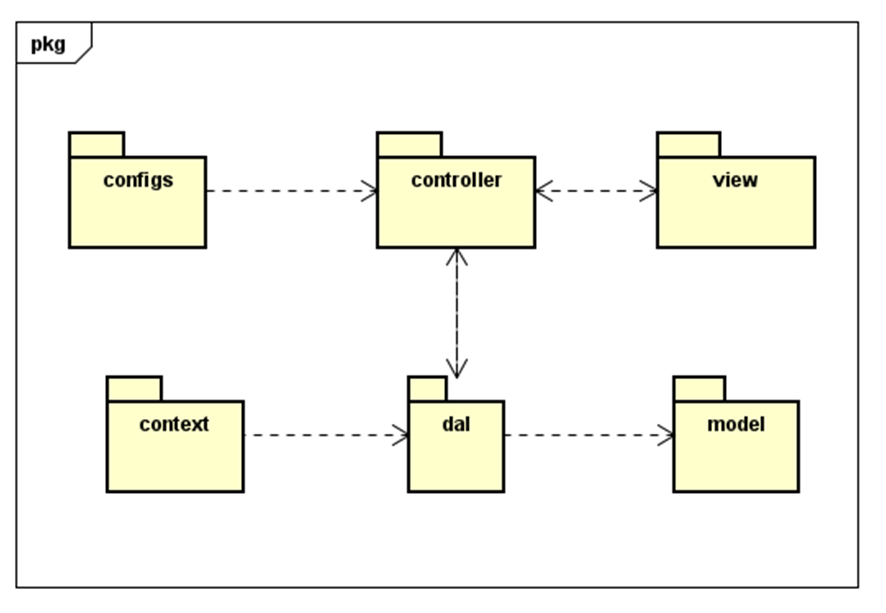
[b. Class Specification](#_heading=h.558tx1pvwyis) 63

[c. Sequence Diagram](#_heading=h.j83qxltjuktb) 64

[d. Database queries](#_heading=h.n44gz9po581h) 64

# I. Overview

## 1. Code Packages

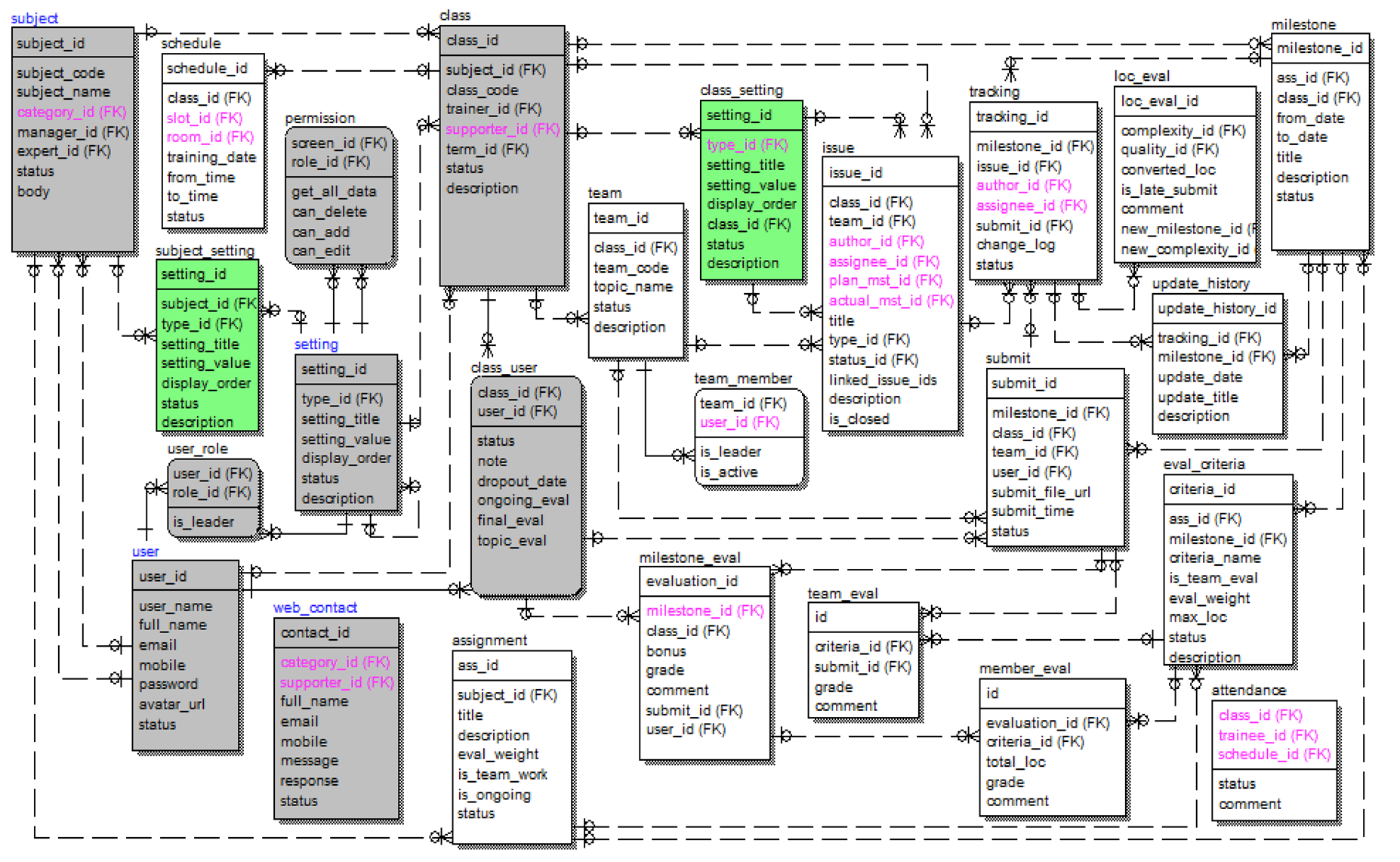


***Package descriptions***

| **No** | **Package** | **Description** |
| --- | --- | --- |
| *01* | *controller* | *Acts as a go-between for the service layer and the Front-end, passing on different input requests* |
| *02* | *dal* | *This component is used to get data directly FROM the database* |
| *03* | *configs* | *This component helps define configuration* |
| *04* | *context* | *This component helps connect database* |
| *05* | *model* | *This component includes interfaces used to receive data retrieved FROM the database and classes used to receive data* |
| *06* | *view* | *This component display front-end.* |

## 2. Database Design

### a. Database Schema



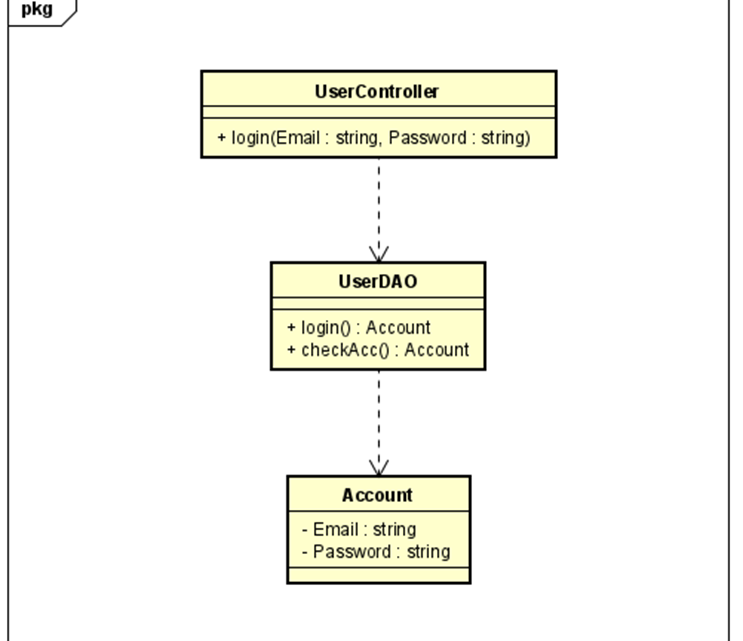
### b. Table Description

| **No** | **Table** | **Description** |
| --- | --- | --- |
| 1 | class | have information about class is stored |
| 2 | class\_lesson | Store information about a specific lesson including (lessons, subjects, classes, slot) |
| 3 | class\_setting | allow change about title , value ,status and description |
| 4 | class\_user | Archive study groups of a class once assigned by the teacher |
| 5 | client | have the list of all client is stored |
| 6 | lesson | Store subjects, instructors teaching that subject, lectures in the form of videos, files containing learning materials |
| 7 | package | General information for the subject |
| 8 | permission | have information about screen and function about delete, add, edit. |
| 9 | setting | Allow or restrict user to have different permissions |
| 10 | subject | Have the list of all subject is stored |
| 11 | subject\_setting | allow change about title , value ,status and description of the subject |
| 12 | team | have the list of all team is stored |
| 13 | user | have the list of all user is stored |
| 14 | user\_role | have user access rights |
| 15 | web\_contact | Information for user to contact |
| 16 | System Permissions | Configure the page-access permissions for each of the system roles |
| 17 | User Authorization | Link Check, Sider Menu, Header & Footer |
| 18 | Subject Setting List | Configure the subject: complexity levels, quality levels |
| 19 | Subject Setting Details |  |
| 20 | Assignment List | List of subject assignments; filter by subject , status; search by title |
| 21 | Assignment Details |  |
| 22 | Eval Criteria List | List of assignment evaluation criteria; filter by subject , assignment , status; search by criteria\_name |
| 23 | Eval Criteria Details | View details of a criterion, edit or delete it |
| 24 | Class List | Filters: Subject, Term, Trainer, Supporter, Status  Columns: Id, Code, Term, Trainer, Supporter, Status  Row Actions: View/Edit, Activate/Deactivate/Close  Global Actions: Filter, Search (by Code), Sort (columns), Paginate  Status: Active, Inactive, Closed |
| 25 | Class Details | Subject (L), Code, Term (L), Trainer (L), Supporter (L), Status, Description  Trainer can edit the GitLab API connection configuration for the class he/she is in charge of |
| 26 | Class Setting List | Filters: Type, Status  Column: Id, Type, Title, Value, Display Order, Status  Row Actions: View/Edit, Activate/Deactivate  Global Actions: Filter, Search (by Title, Value), Sort (columns), Paginate  Roles: trainer ~ full access, student ~ read only  Status: Active, Inactive |
| 27 | Class Setting Details | Fields: Type (L), Title, Value, Display Order, Status, Description |
| 28 | Milestone List | List of milestones and content of class assignments |
| 29 | New Milestone | Create a new milestone, select based assignment from the list of related subject assignments enter start date, end date  Once created, the subject's selected assignment information and related evaluation criteria are copied into the milestone information. |
| 30 | Milestone Details | View and edit class milestone information |

# II. Code Designs

## 1. Common/Login

### a. Class Diagram



### b. Class Specifications

| **No** | **Method** | **Description** |
| --- | --- | --- |
| *01* | *login* | *Using to login into the system* |
|  | *checkAcc* | *Using to check account in database* |

#### 

### c. Sequence Diagram

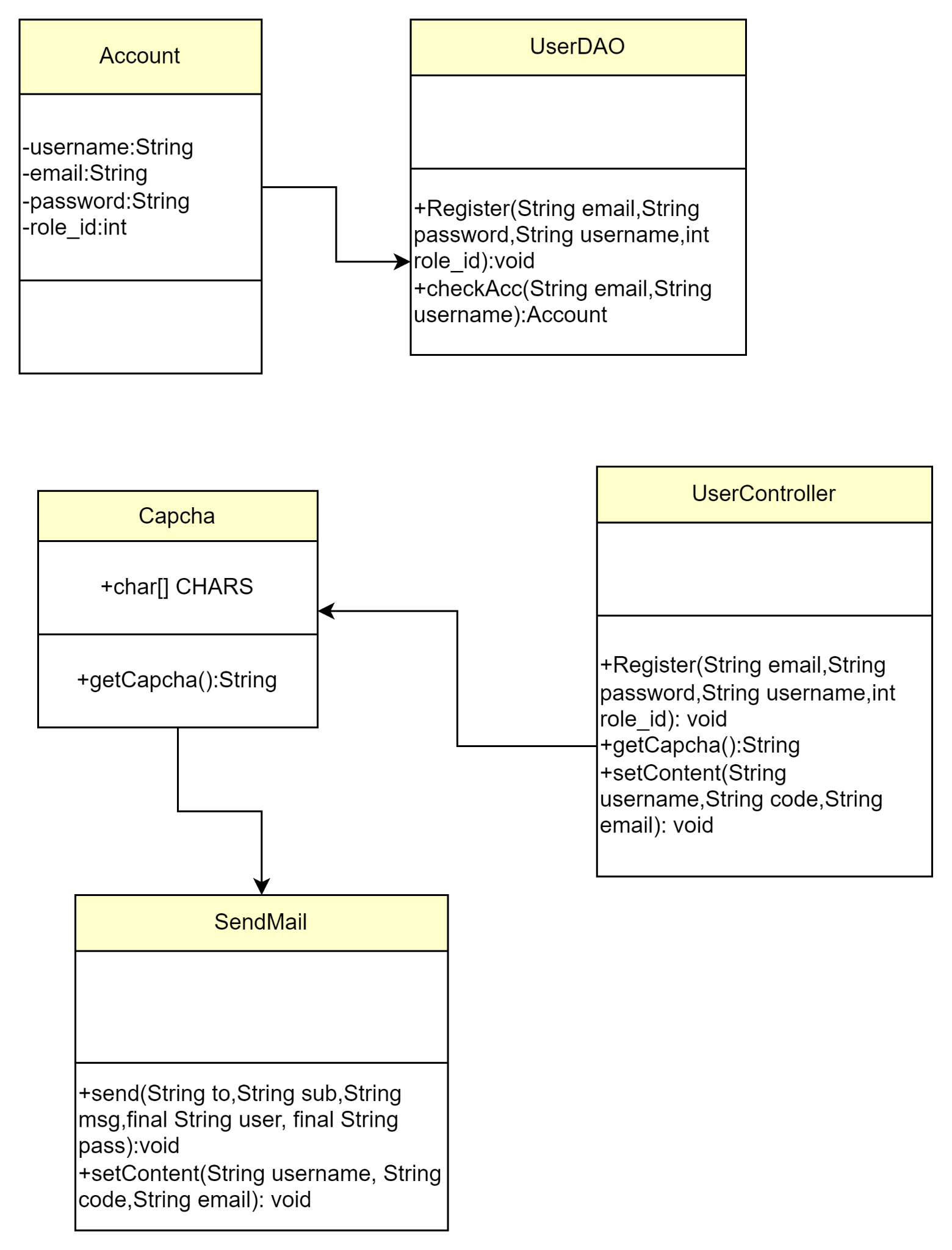


### d. Database Queries

String sql = “Select \* from user where email = ? or full\_name = ?”

## 2. Common/Register

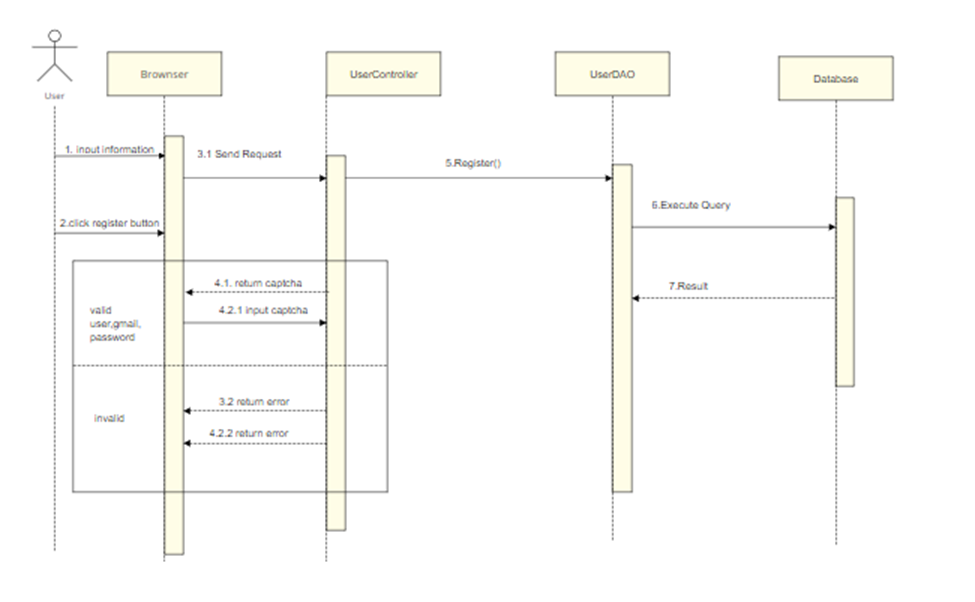
### a. Class Diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | register | use to create new user |
| 2 | checkAcc | use to check username or email exist |
| 3 | getCaptcha | get a random string |
| 4 | send | send mail to user |
| 5 | setContent | set email and username that user use to register to send |

### c. Sequence Diagram

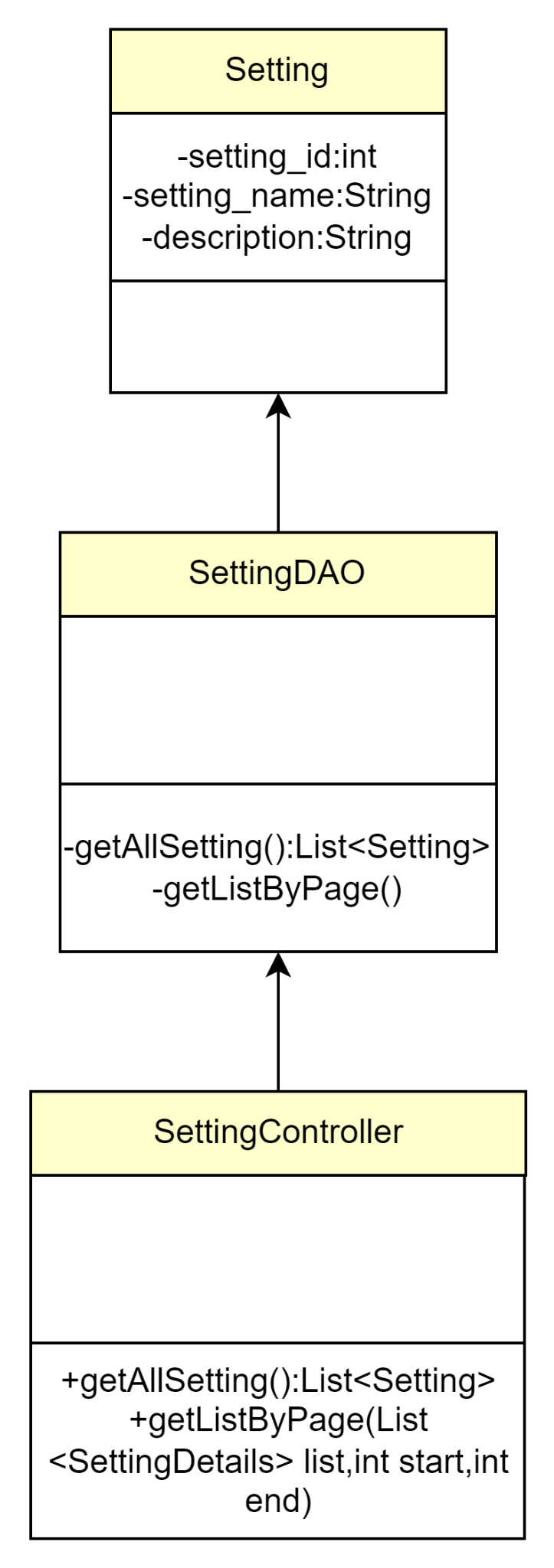


### d. Database queries

* Select \* from user where email = ? or full\_name=?
* Insert into user (‘full\_name’ , ‘email’ , ‘password’ ) values (?,?,?)

## 3. Admin/Setting List

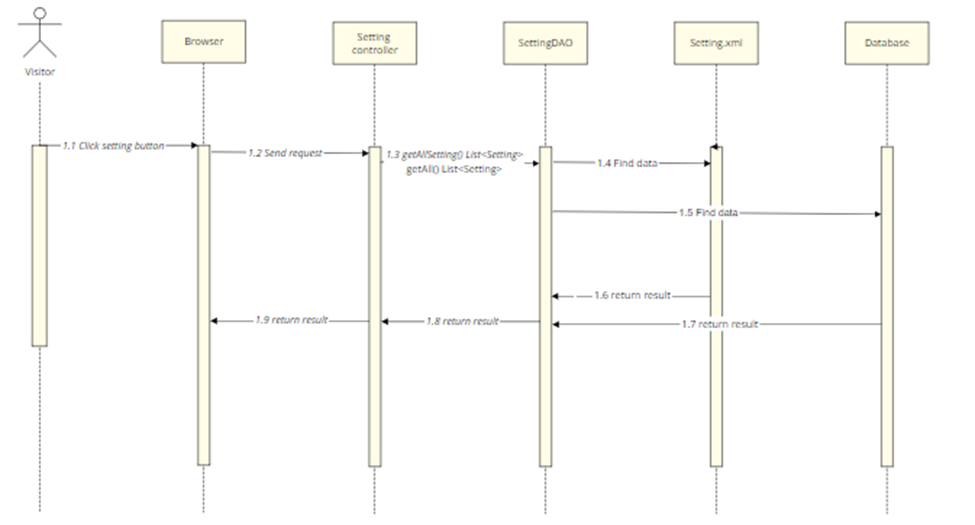
### a. Class Diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAllSetting | use to list setting |
| 2 | getListByPage | use to pagination |

### c. Sequence Diagram



### d. Database queries

## 4. Admin/Setting Details

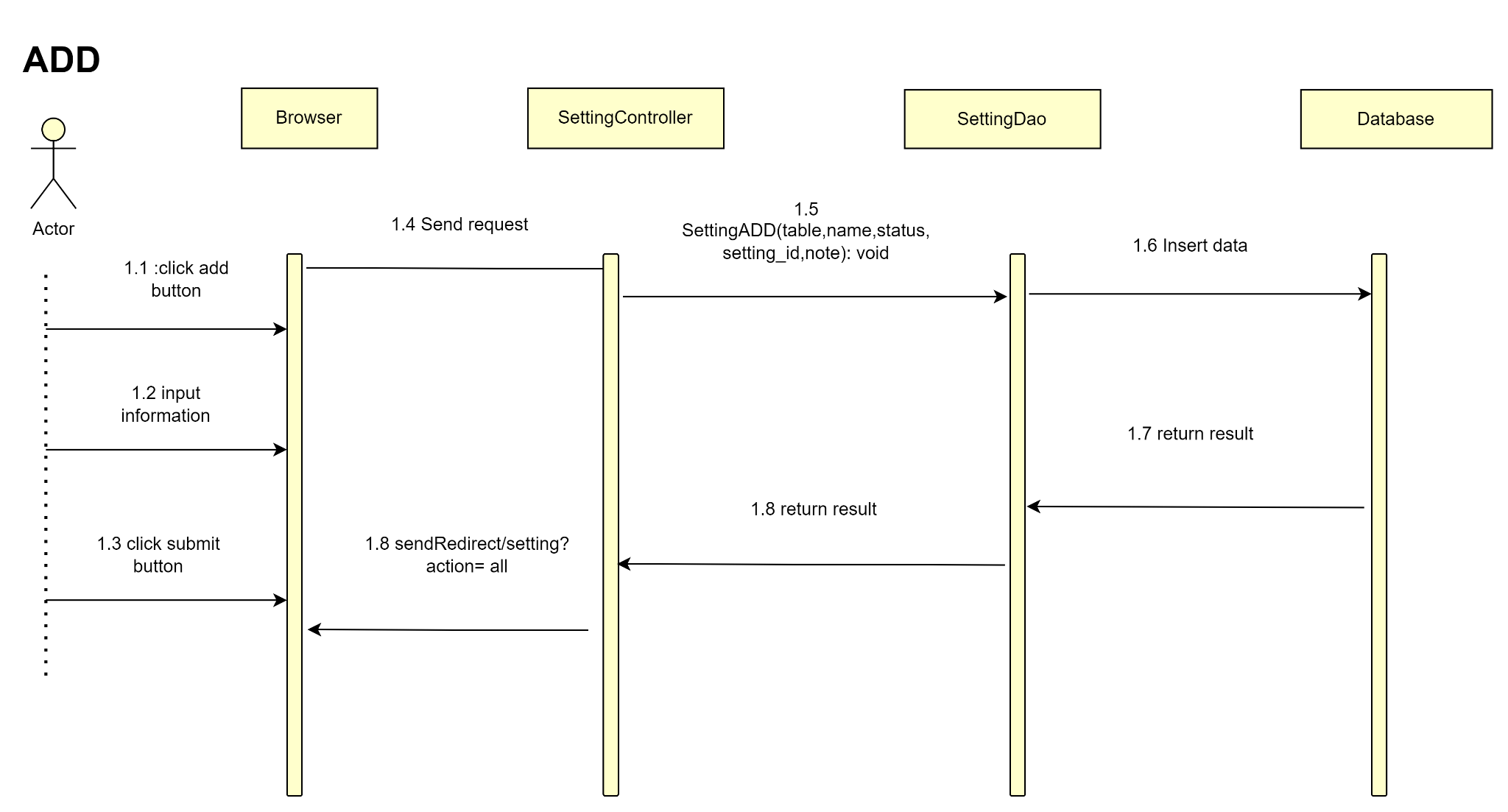
### Class Diagram

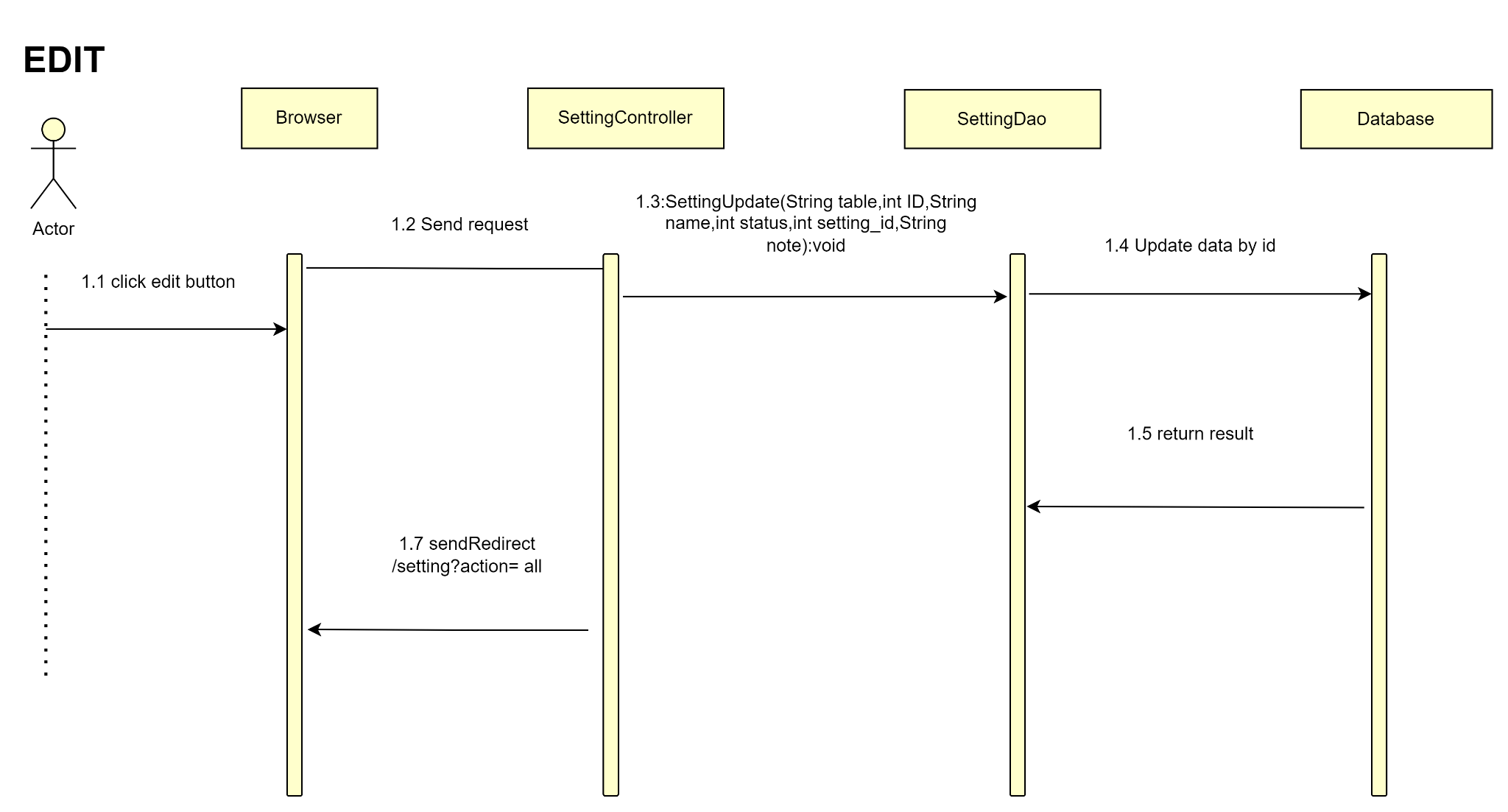


### Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | SettingADD | use to create new setting |
| 2 | SettingUpdate | use to update setting |

### Sequence Diagram

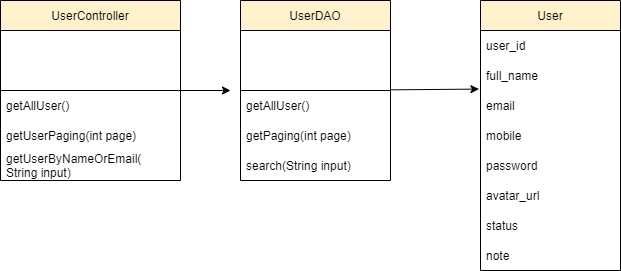




### Database queries

## 5. Admin/User List

### a. Class Diagram



### 

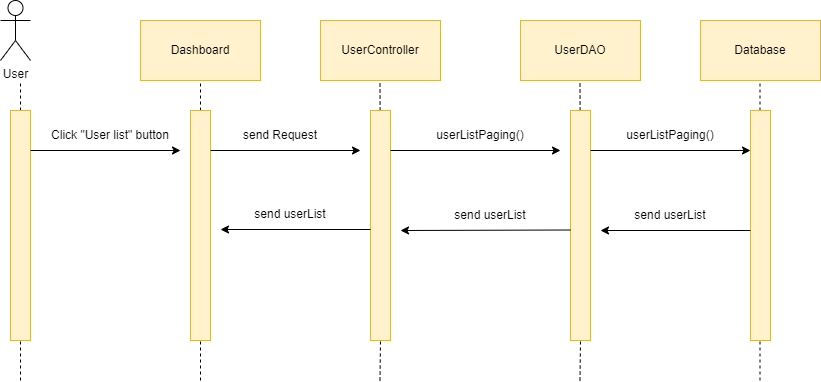
### 

### 

### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAccountPaging | Display 10 account in a page |
| 2 | getAccountByUserNameOrEmail | Search account by username or email |

### c. Sequence Diagram

Show all accounts in User list paging function

Search user by name or email function

### d. Database queries

SELECT \* FROM user ORDER BY user\_id LIMIT ? OFFSET 10

SELECT \* FROM user WHERE email = ? or full\_name=? ORDER BY user\_id LIMIT ? OFFSET 10

## 6. Admin/User Detail

### a. Class Diagram

### 

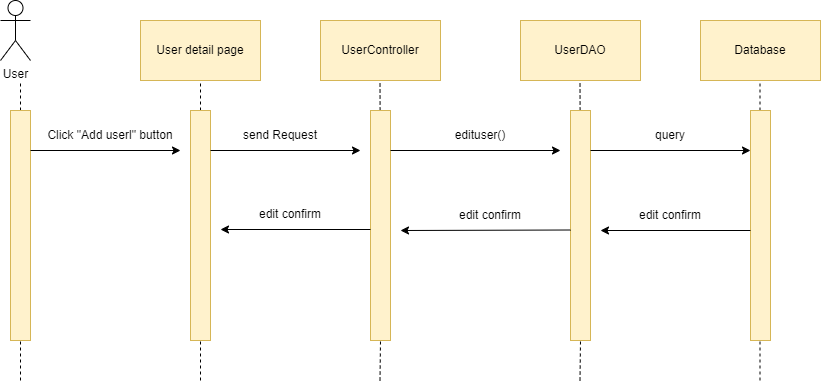
### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAccountByUseName | Search account by username |
| 2 | editName | Edit user name |
| 3 | editEmail | Edit user email |

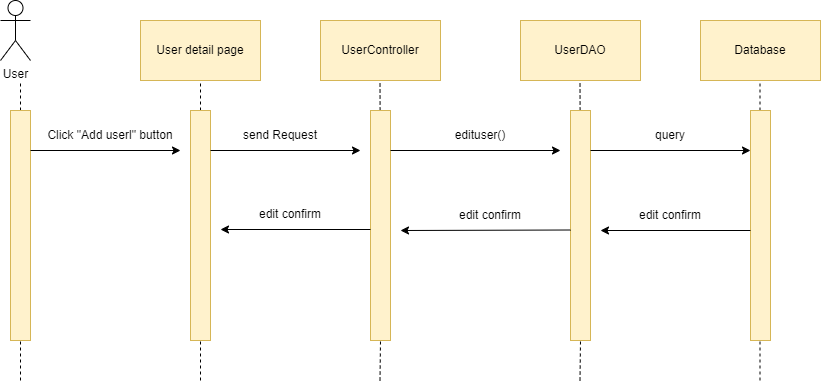
### 

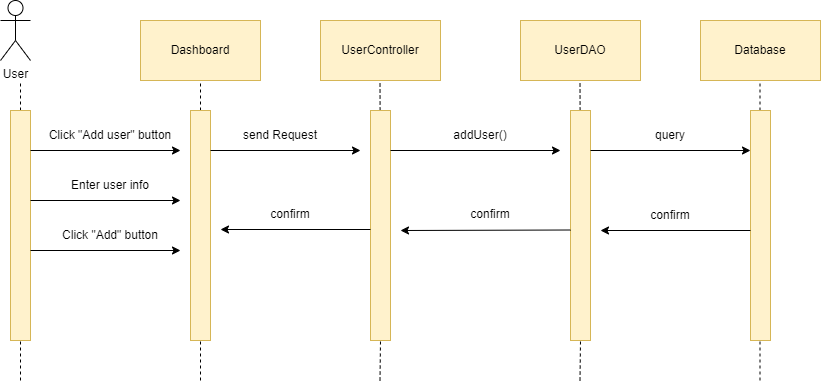
### c. Sequence Diagram

Show detail profile of user on “User detail ” function



Perform edit user

Perform add user



### d. Database queries

SELECT \* FROM user WHERE user\_id = ?

UPDATE user

SET full\_name=?, email=?, mobile = ?, password=?

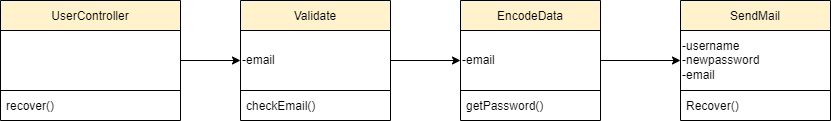
WHERE user\_id = ?;

INSERT INTO user (full\_name, email, mobile , password)

VALUES( ?, ?, ?, ?)

## 7. Common/Forgot Password

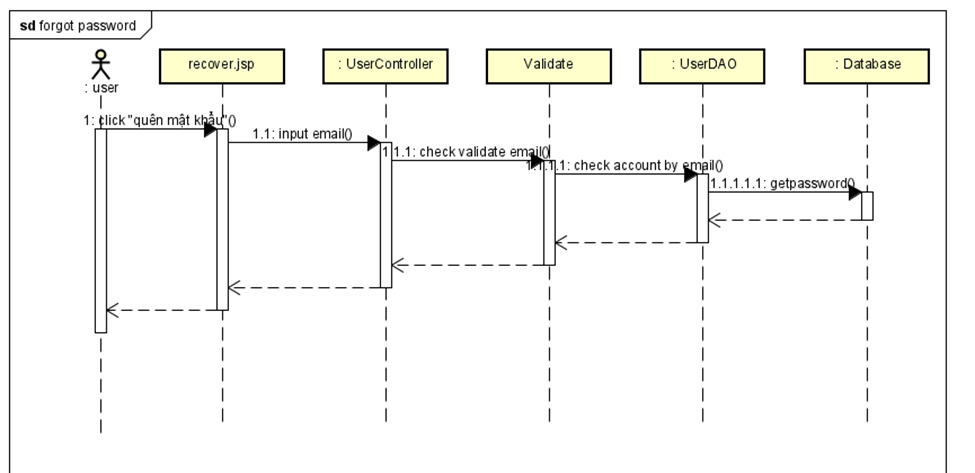
### a. Class Diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | recover | using to forgot password |
| 2 | checkEmail | using to check validate email |
| 3 | checkAccByEmail | using to check exist email |
| 4 | getPassword | using to create password randomrandom |
| 5 | setContentRecover | using to send newpassword |

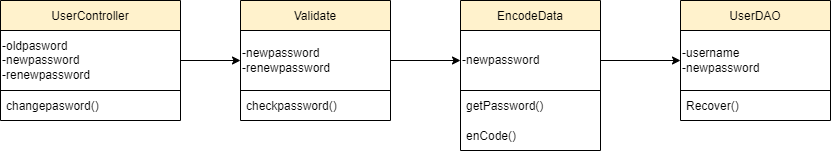
### c. Sequence Diagram



### d. Database queries

## 10. Common/Change Password

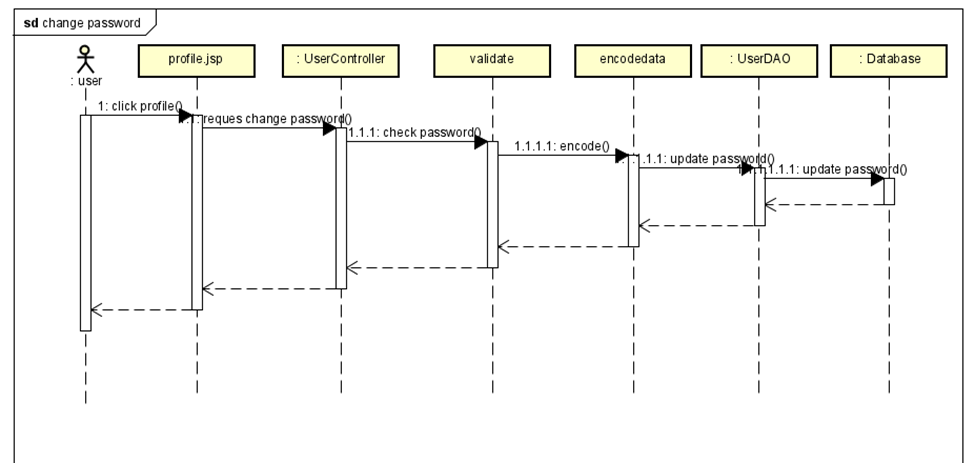
### a. Class Diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | changePassword | using to change password |
| 2 | checkPassword | using to check validate password |
| 3 | enCode | using to encode password |
| 4 | getPassword | using to update password |
| 5 | Recover | using to save password |

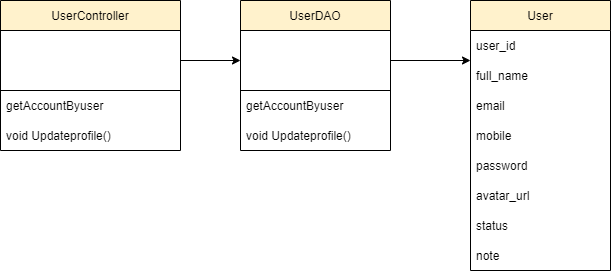
### c. Sequence Diagram



### d. Database queries

## 11. Common/User profile

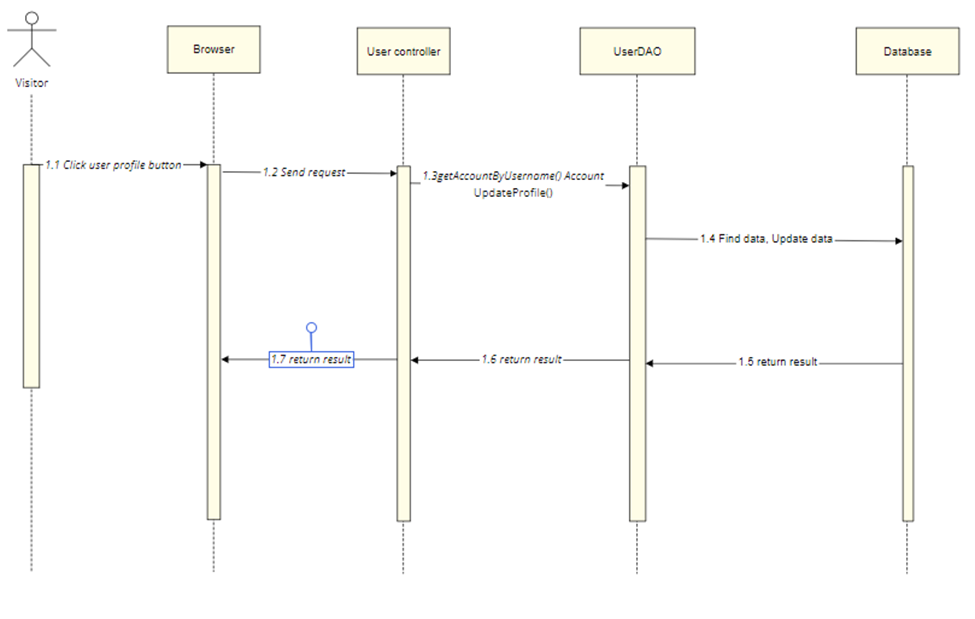
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAccountByUsername | use to find account profile by it’s username |
| 2 | UpdateProfile | use to update user’s profile |

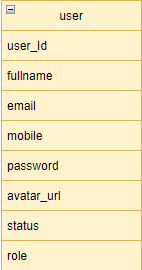
### c. Sequence diagram



### d. Database queries

## 12. Change password

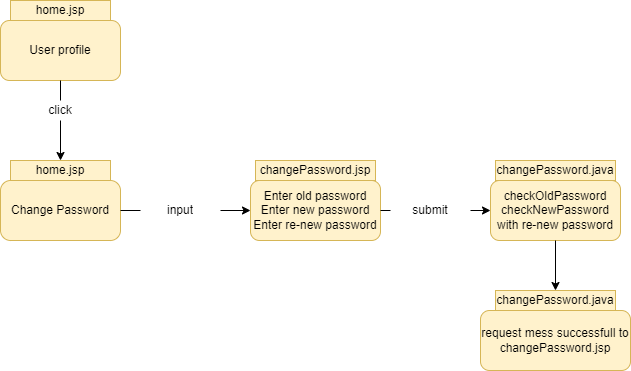
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | checkOldPassword | If you want to change your password, you must enter the correct old password |
| 2 | changePassword | After the user enters the correct old password, the new password and re-enters the new password, proceed to change the password |

### c. Sequence Diagram



### d. Database queries

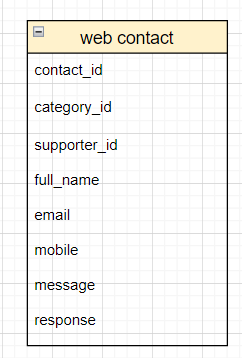
+) select \* from user where email = ? and password = ?

+)Update user set password = ? where email = ?

### 

## 13. Support/ Web contact list

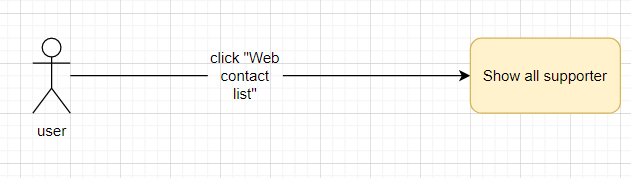
### a. Class diagram



### b. Class Specification

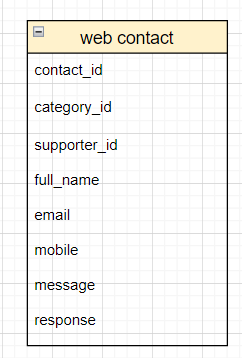
| No | Method | Description |
| --- | --- | --- |
| 1 | getAllSupporter | show all information of supporter |

### c. Sequence Diagram

****

## 14. Support/ Web contact detail

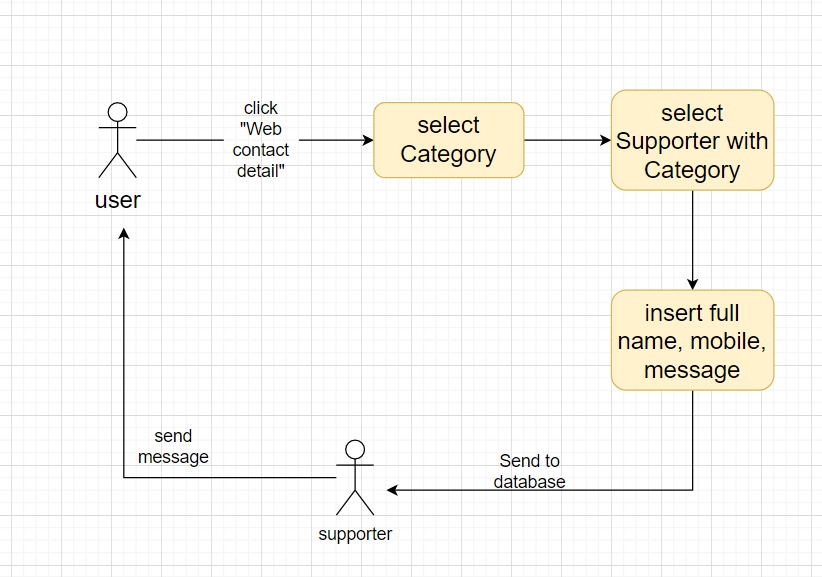
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAllCategory | using to select contact’s category |
| 2 | getSupporterByCategory | show all information of supporter with each category |
| 3 | getResponseByContactID | using to send response to user |

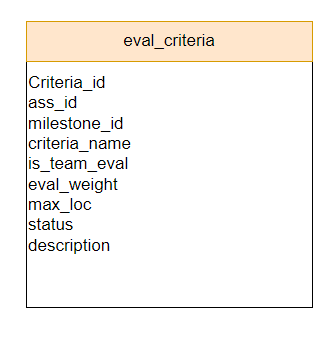
### c. Sequence Diagram

****

### c. Sequence Diagram

## 15. Eval criteria list

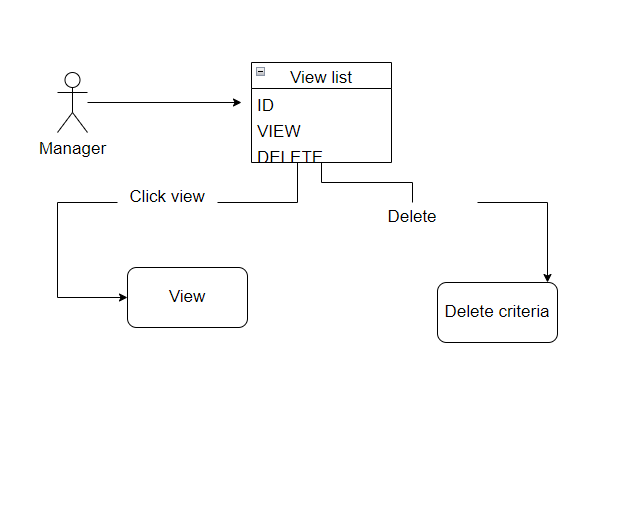
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAllCriteria | Show list eval criteria |
| 2 | getCriteriaByID | get a criteria by id to view and update |
| 3 | countPage | count element in database |

### c. Sequence Diagram

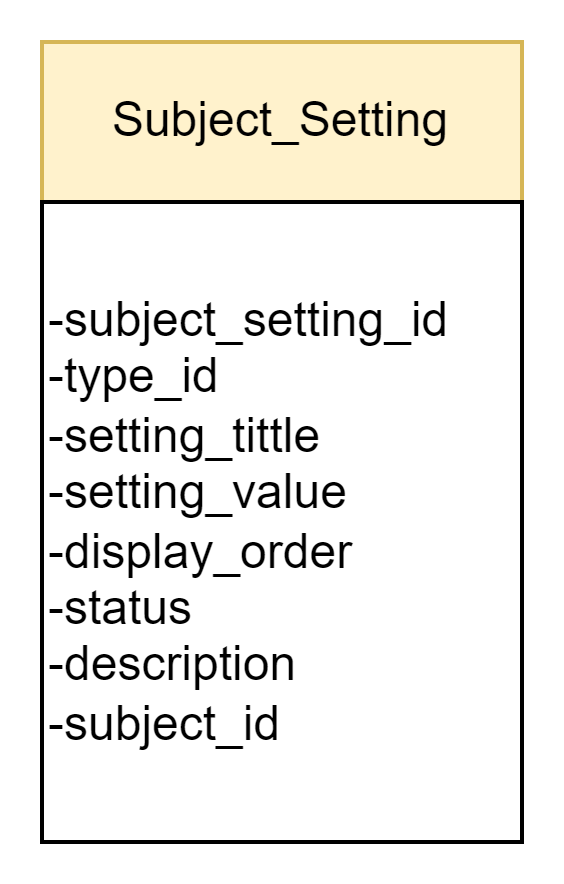


### d. Database queries

* select \* from eval\_criteria;
* select \* from eval\_criteria where criteria\_id=?;

## 16. Subject Setting List

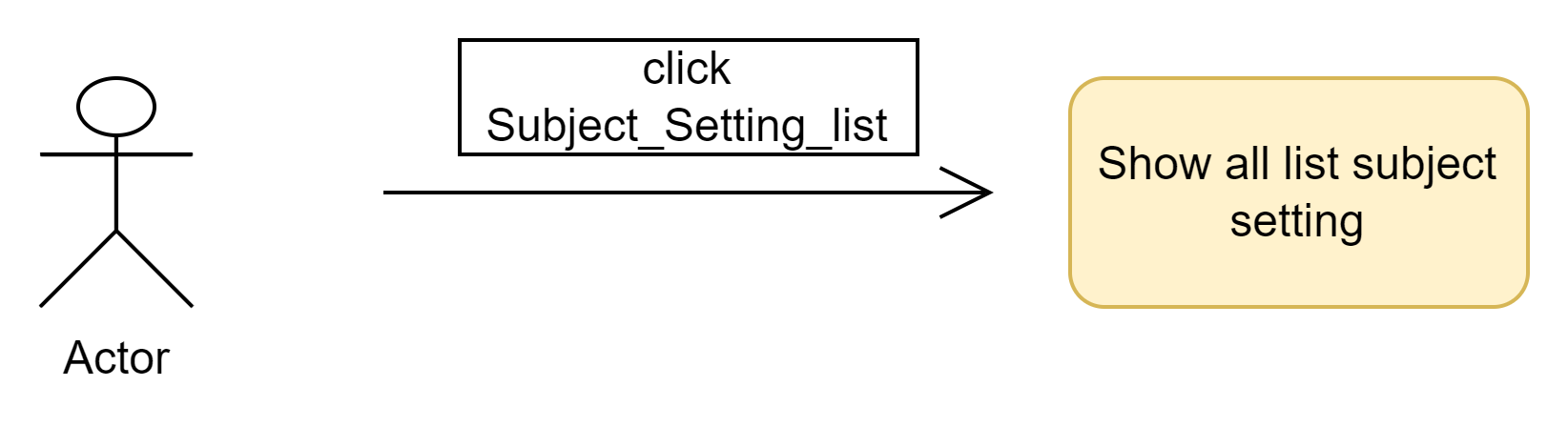
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getListSubject\_Setting\_List() | Show list subject setting |

### c. Sequence Diagram



### d. Database queries

+) Select subject\_name, setting\_title, setting\_value, display\_order,status, description, from dbo.subject\_setting as set , dbo.subject as sub where set.subject\_id = sub.subject\_id.

## 

## 17.Subject Setting Details

### a. Class diagram

### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 |  |  |

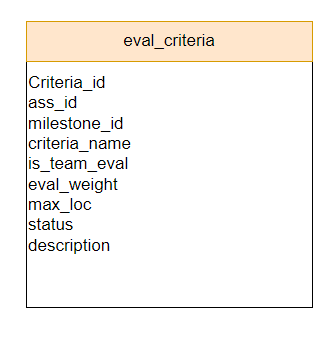
### c. Sequence Diagram

### d. Database queries

## 

## 18.Eval criteria detail

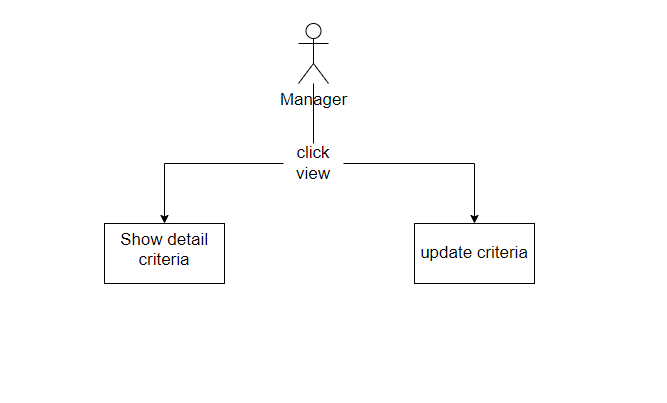
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getCriteriaByID | get a criteria by id to view and update |
| 2 | updateCriteria | update criteria |
| 3 | getAllAssignment | Show combo box of assignment |

### c. Sequence Diagram

****

### **d.** Database queries

-select \* from eval\_criteria where id = ?

-UPDATE `project\_swp\_391`.`eval\_criteria`

SET

`criteria\_id` = <{criteria\_id: }>,

`ass\_id` = <{ass\_id: }>,

`milestone\_id` = <{milestone\_id: }>,

`criteria\_name` = <{criteria\_name: }>,

`is\_team\_eval` = <{is\_team\_eval: }>,

`eval\_weight` = <{eval\_weight: }>,

`max\_loc` = <{max\_loc: }>,

`status` = <{status: }>,

`description` = <{description: }>

WHERE `criteria\_id` = <{expr}>;

-select \* from assignment ;

## 19. Admin/System Permissions

### a. Class diagram

### 

### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getPermissionPaging | get a permission to view |
| 2 | updatePermission | update permission |

### 

### c. Sequence Diagram

### d. Database queries

select perm.screen\_id, st.setting\_value, perm.setting\_id, perm.get\_all\_data, perm.can\_add, perm.can\_delete, perm.can\_edit from

permission as perm

inner join setting as st

on st.setting\_id = perm.screen\_id

and st.type\_id = 12 order by perm.screen\_id

UPDATE `permission`

SET

`get\_all\_data` = ?

+ "`can\_delete` = ?,\n"

`can\_edit` = ?,

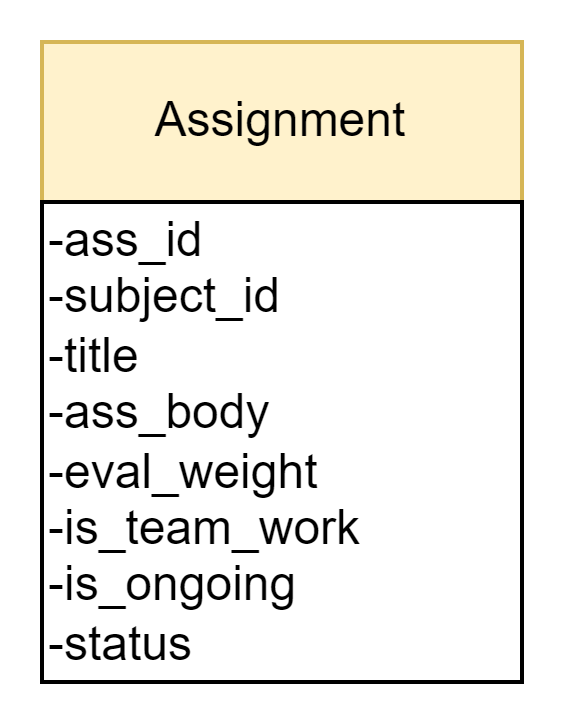
`can\_add` = ?

WHERE `screen\_id` = ?

and `setting\_id` = ?;

## 20. Assignment List

### a. Class diagram

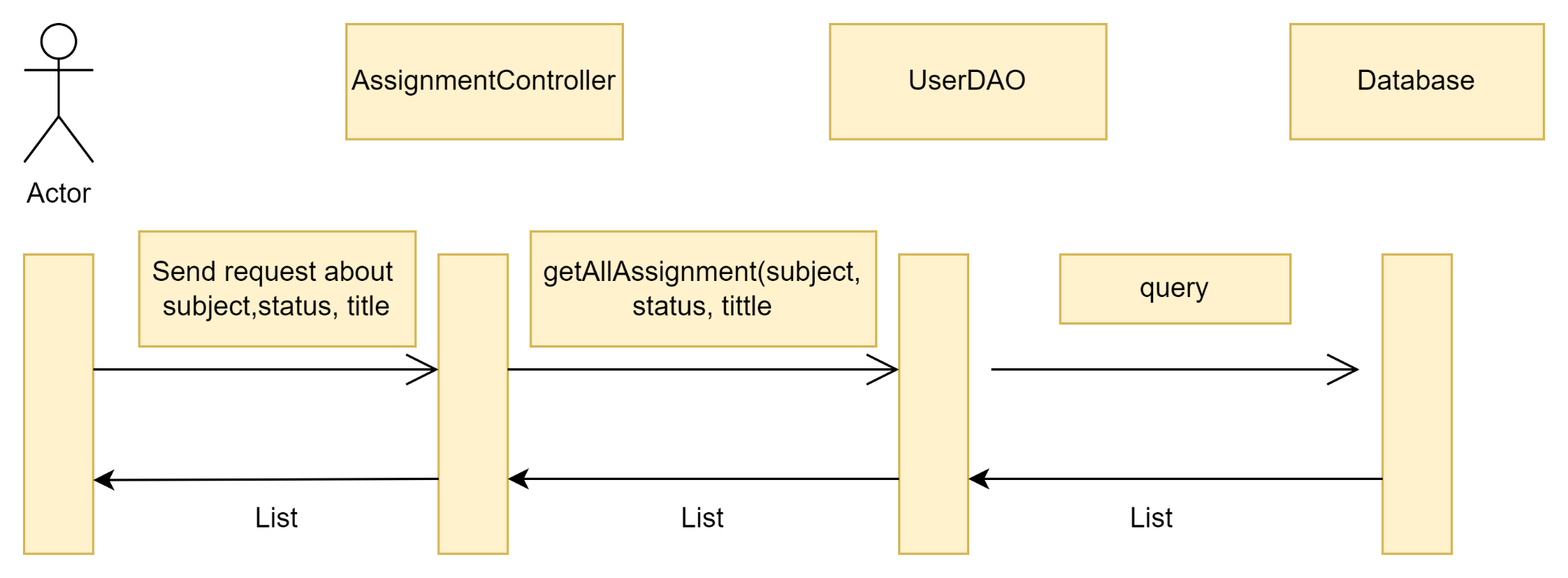


### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAllAssignmentList() | Show information about Assignment |
| 2 | getAllAssignmentList(subject,status,tittle) | Show information about Assignment follow fitler |

### 

### c. Sequence Diagram



### d. Database queries

+)select ass\_id , subject\_name , tittle , ass\_body, eval\_weight, is\_team\_work, is\_ongoing, status from dbo.Assignment as assign, dbo.Subject as sub where assign.subject\_id = sub. subject\_id .

+) select ass\_id , subject\_name , tittle , ass\_body, eval\_weight, is\_team\_work, is\_ongoing, status from dbo.Assignment as assign, dbo.Subject as sub where assign.subject\_id = sub. subject\_id and sub.subject\_name=? and sub.status = ? and assign.title=? .

## 21. Assignment Details

### a. Class diagram

### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 |  |  |

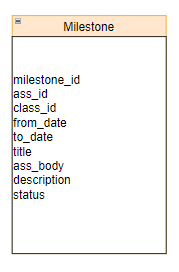
### 

### c. Sequence Diagram

### d. Database queries

## 22. Milestone list

### a. Class diagram

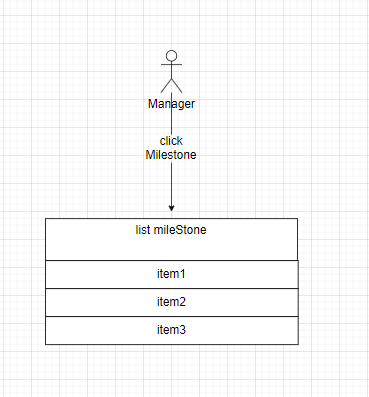


### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getallMilestone | show list milestone |
| 2 | getMilestoneByID | show a milestone by id |
| 3 | countPage | count total page |

### 

### c. Sequence Diagram



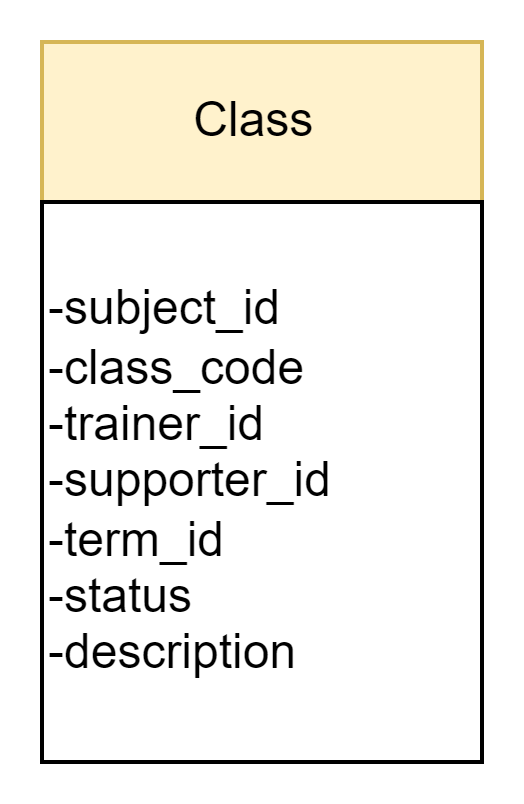
### d. Database queries

-select \* from milestone;

-select \* from milestone where id =?;

## 23. Class List

### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAllClassList() | show information about class list |
| 2 | getAllClassList(subject, Term , Trainer , Supporter , Status ) | show information list of class follow filter |
| 3 | getClassById(int id) | Show information class follow id |
| 4 | updateClassById(int id) | Update information about class |
|  |  |  |

### 

## 24. Class Details

### a. Class diagram

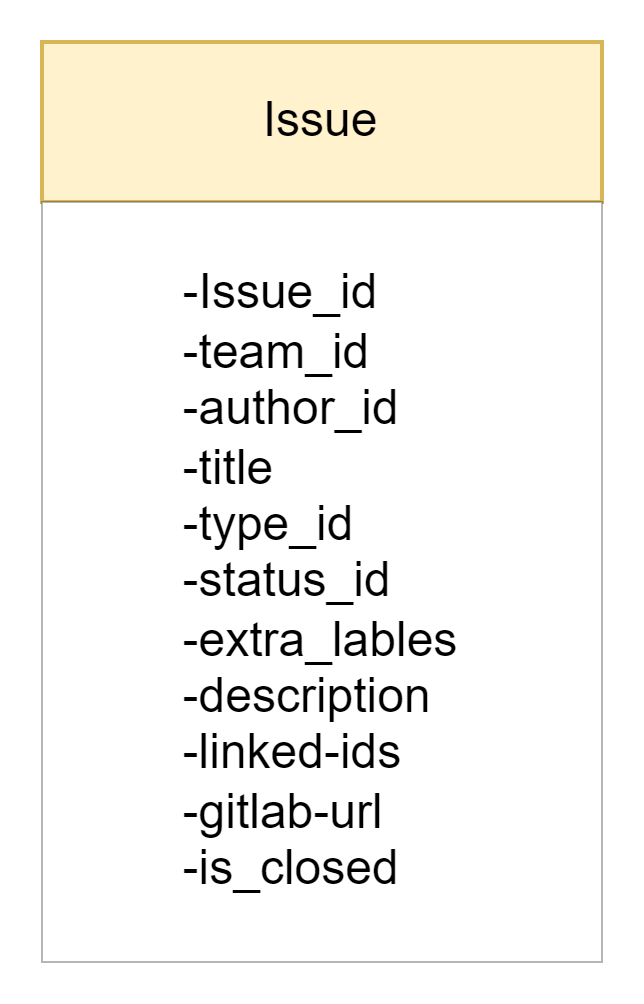
### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 |  |  |

### 

**24. Issue List**

**a.Class Diagram**

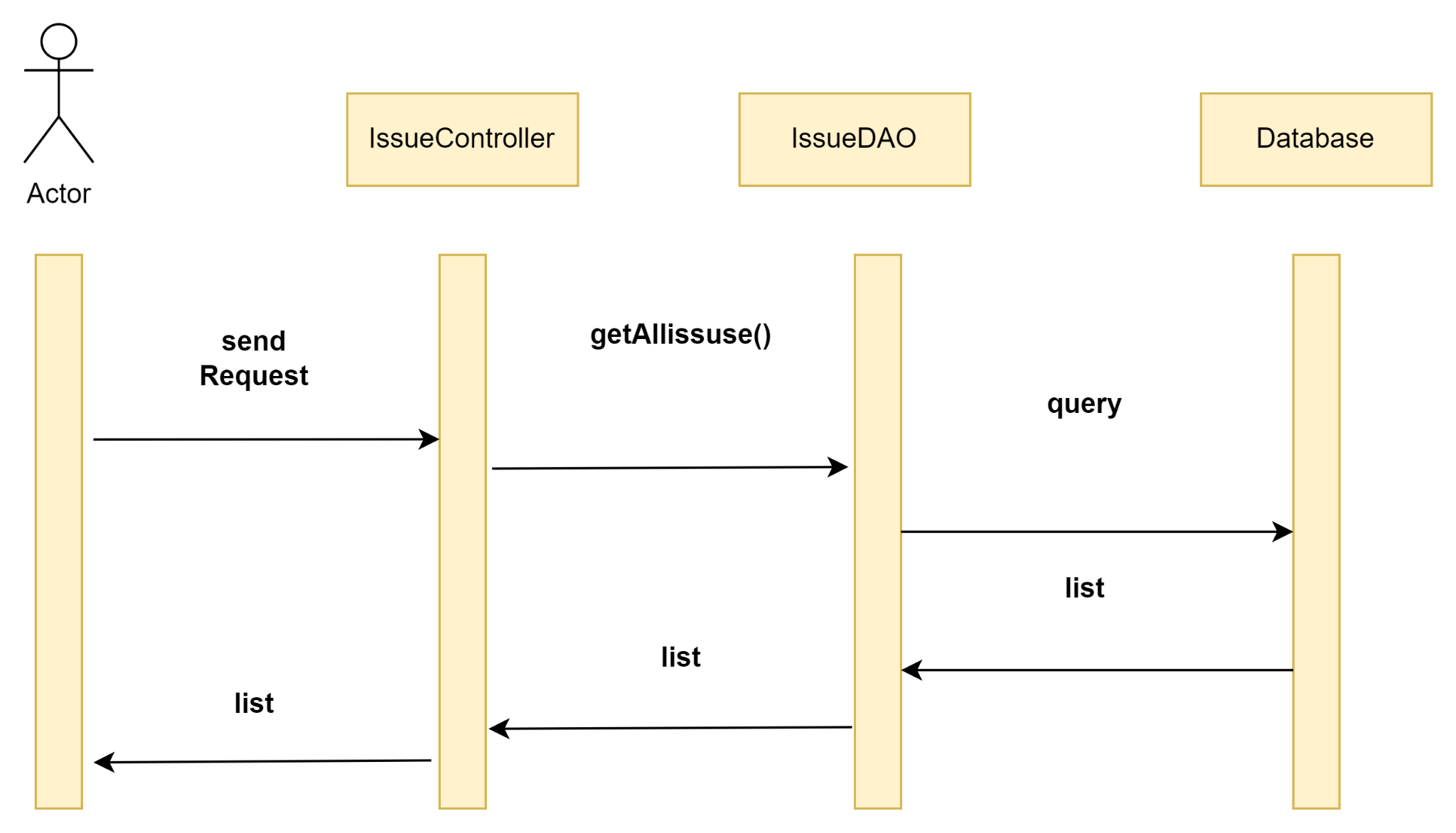


### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAllIssue() | show information about list of issue |
| 2 | getAllIssue(String status, String Milestone, String author,String assignee, String Issue\_type,String issue\_status) | show all information about list of issue follow by filter |
| 3 | sortAllIssue() | Sort list of issue following Id,Name,... |
| 4 | countPage() | Count page of list issue |

### 

### c. Sequence Diagram



### d. Database queries

+) select class,misletone, Author, Assignee,Type, Status from dbo.issue as issue , dbo.team as team , dbo.class\_setting as set ,dbo.class as class where issue.team\_id = team.team\_id and set.type\_id = issue.type\_id and class.class\_id = team.class\_id

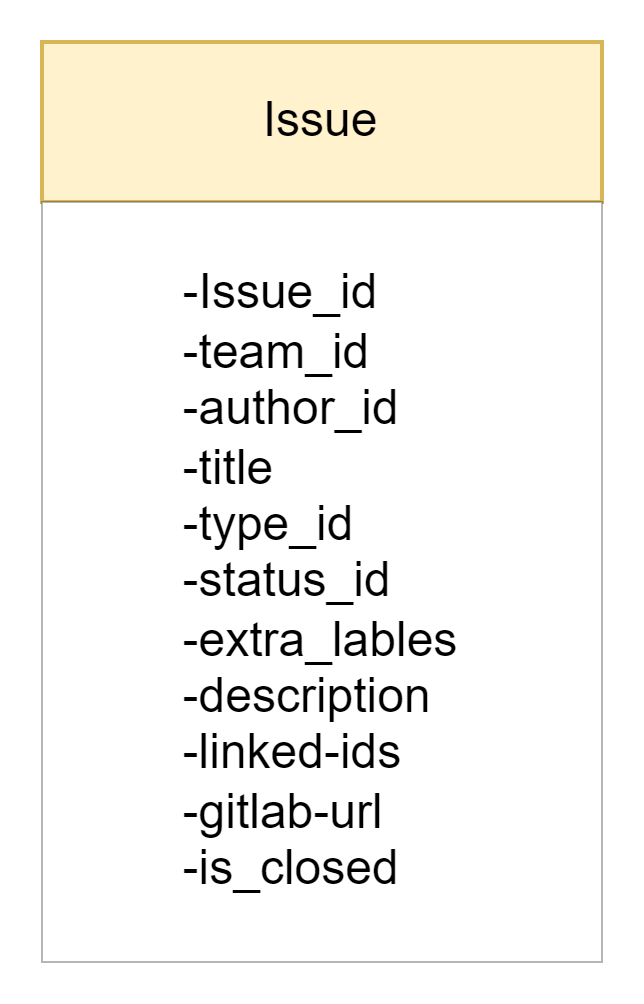
+) select class,misletone, Author, Assignee,Type, Status from dbo.issue as issue , dbo.team as team , dbo.class\_setting as set ,dbo.class as class where issue.team\_id = team.team\_id and set.type\_id = issue.type\_id and class.class\_id = team.class\_id and issue.title = ?

+) with t as(select class,misletone, Author, Assignee,Type, Status from dbo.issue as issue , dbo.team as team , dbo.class\_setting as set ,dbo.class as class where issue.team\_id = team.team\_id and set.type\_id = issue.type\_id and class.class\_id = team.class\_id and issue.title = ?)

select count(\*) from t.

**25. Issue Details**

**a.Class Diagram**

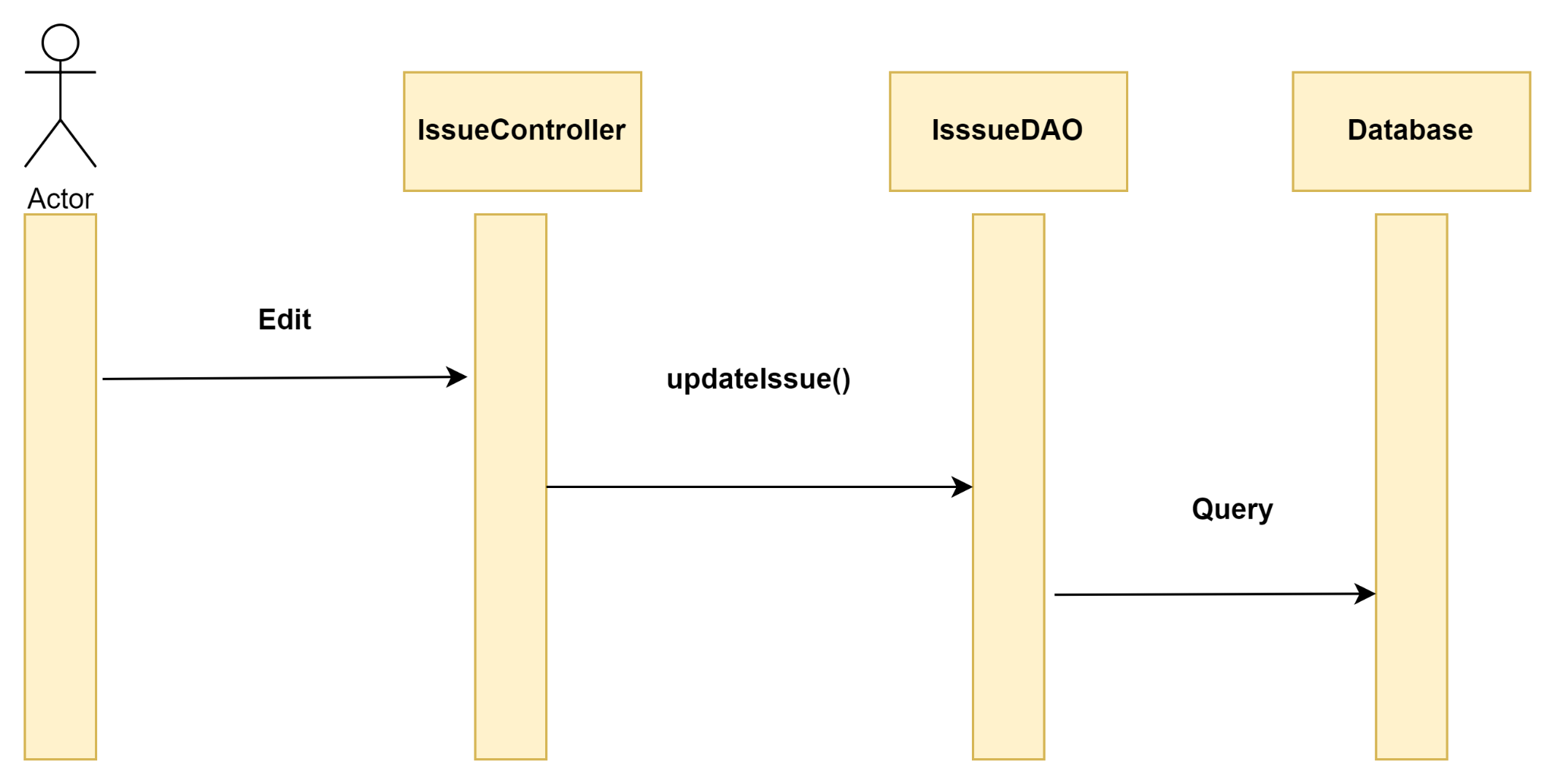


### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAllIssue() | show information about list of issue |
| 2 | UpdateIssue() | Update information of issues |

### 

### c. Sequence Diagram



**d, Database queries**

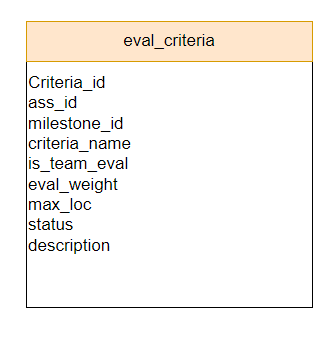
+) Select \* from dbo.issue as issue, dbo.class\_setting as set, dbo.team as team where issue.team\_id = team.team\_id and set.type\_id = issue.type\_id

+) Update Issue set tittle = ? , extra\_label = ?,description =? ,is\_closed =? where team\_id =? and author\_id = ? and assignee\_id =?

### 

## 26. Class eval criteria list

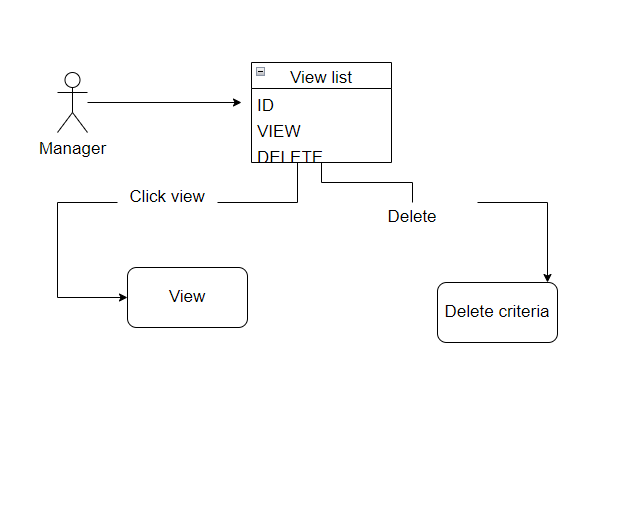
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAllCriteria | Show list eval criteria |
| 2 | getCriteriaByID | get a criteria by id to view and update |
| 3 | countPage | count element in database |
| 4 | changeStatus | change status |

### c. Sequence Diagram

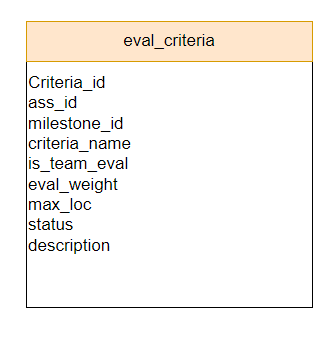


### d. Database queries

* select \* from eval\_criteria;
* select \* from eval\_criteria where criteria\_id=?;
* select \* from evalcriteria order by criteria\_id limit ? , ?;
* SELECT \* FROM eval\_criteria ORDER BY eval\_weight asc ;
* SELECT \* FROM eval\_criteria ORDER BY eval\_weight desc ;

## 27. Class eval criteria details

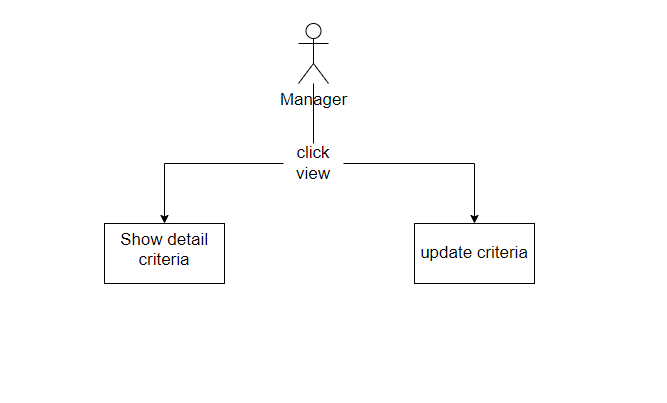
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getAllClass | Show list class |
| 2 | getCriteriaByID | get a criteria by id to view and update |
| 3 | updateCriteria | update criteria by id |

### c. Sequence Diagram

****

### d. Database queries

* select \* from class;
* UPDATE `project\_swp\_391`.`eval\_criteria`

SET

`ass\_id` = ?,

`milestone\_id` = ?,

`criteria\_name` = ?,

`is\_team\_eval` =?,

`eval\_weight` = ?,

`max\_loc` = ?,

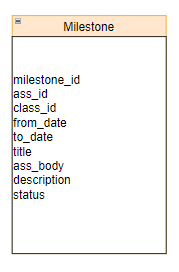
`status` = ?,

`description` = ?

WHERE `criteria\_id` = ?;

## 28. Milestone details

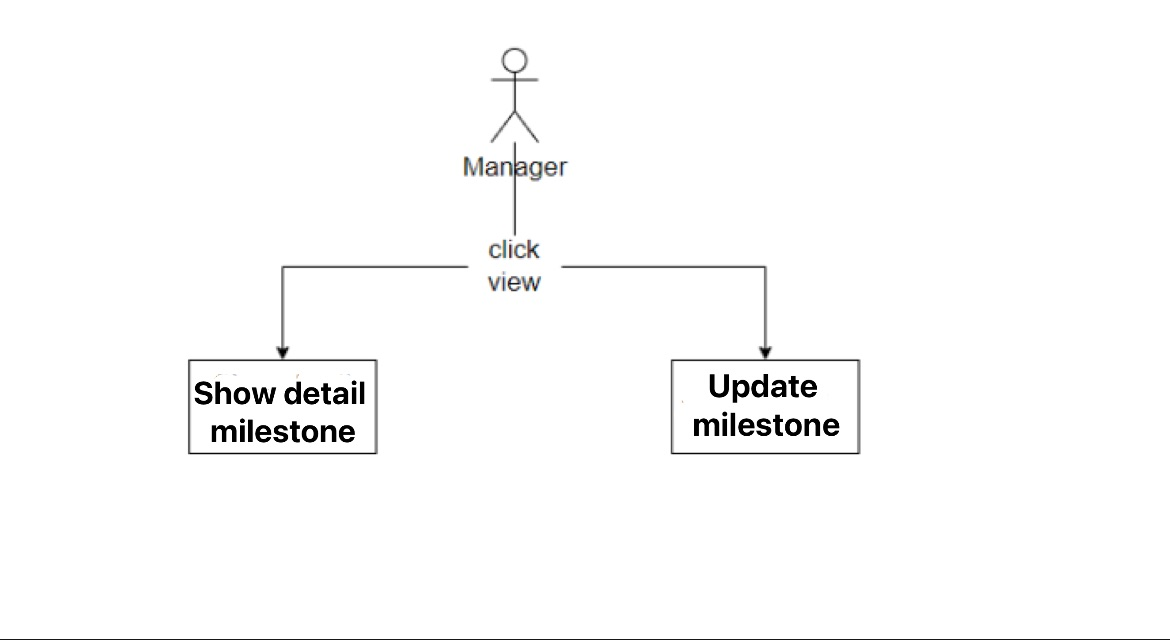
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getMilestoneByID | get a milestoneby id to view and update |
| 2 | updateMilestone | update milestoneby id |

### c. Sequence Diagram



### d. Database queries

* select \* from milestone where milestone\_id = ?;
* UPDATE `project\_swp\_391`.`milestone`

SET

`ass\_id` = ?,

`class\_id` = ?,

`from\_date` = ?,

`to\_date` = ?,

`title` = ?,

`ass\_body` = ?,

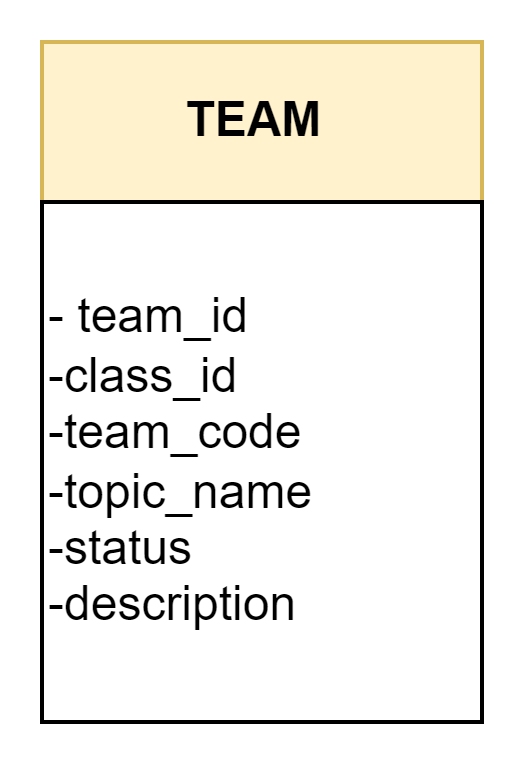
`description` = ?,

`status` = ?

WHERE `milestone\_id` = ?;

## 29.Team List

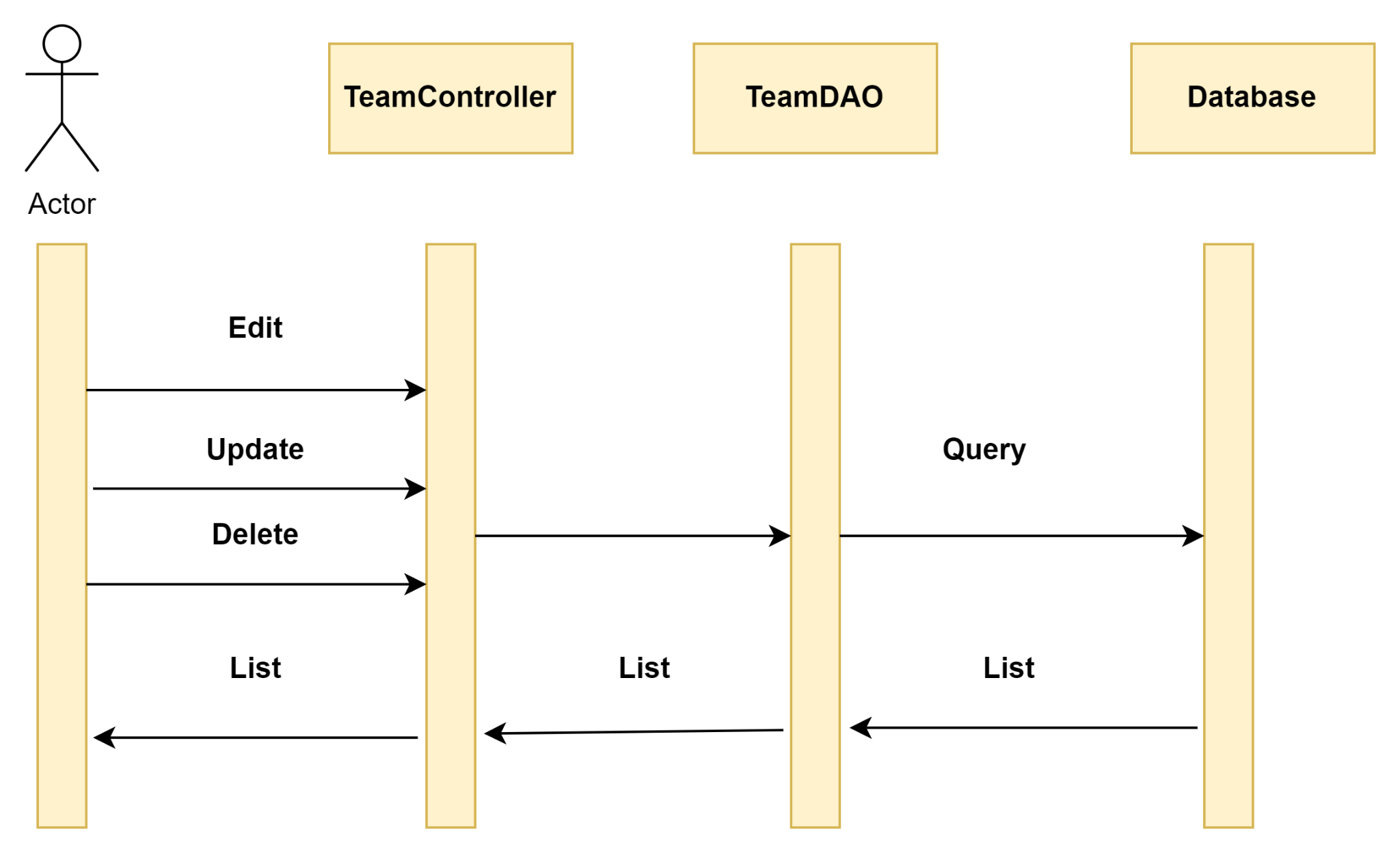
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | ddeleteTeam() | Remove team |
| 2 | changeTeam() | change team |
| 3 |  |  |

### c. Sequence Diagram



### d. Database queries

## 30.Schedule List

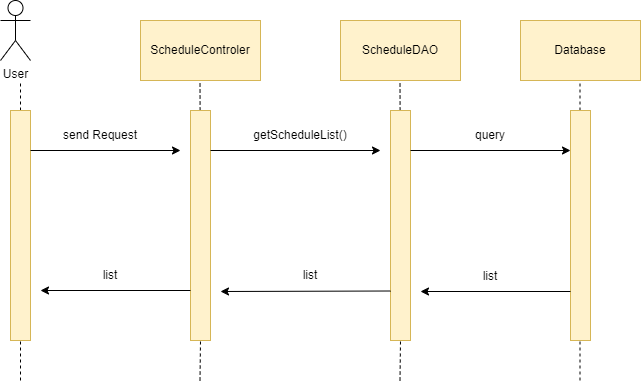
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getScheduleList() | Get list of schedule for the class |

### c. Sequence Diagram



### d. Database queries

## 31. Schedule Detail

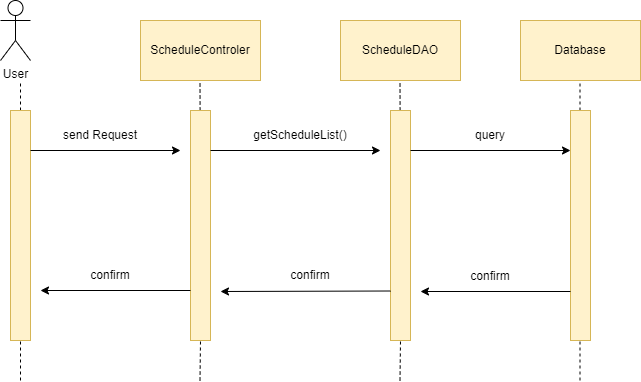
### a. Class diagram



### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getSchedule() | Get detail schedule |
| 2 | updateSchedule() | Update schedule |
| 3 | deleteSchedule | Delete schedule |

### c. Sequence Diagram



### d. Database queries

## 32.Home page

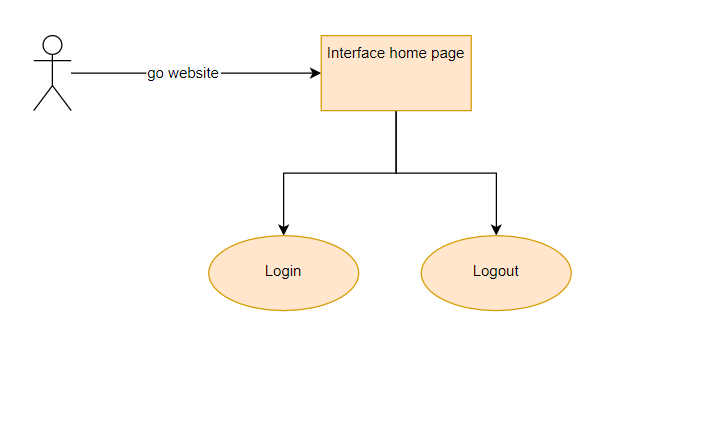
### a. Class diagram

### b. Class Specification

| No | Method | Description |
| --- | --- | --- |
| 1 | getSubjectListHome | Get 6 subject to interface home page |

### 

### c. Sequence Diagram



### d. Database queries

-SELECT \* FROM project\_swp\_391.subject limit 6;