**WIL Report Management System**

Software design

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By

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Document History

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\*PS = Phinthip Samutloiwon  
\*VI = Veerapat In-ongkarn  
\*PSU= Prompong Sugunnasil

Table of Contents

[Chapter I | Introduction 5](#_Toc481751015)

[1.1 Purpose 5](#_Toc481751016)

[1.2 Scope 5](#_Toc481751017)

[1.3 Acronyms and Definition 5](#_Toc481751018)

[Chapter II | System Architecture 6](#_Toc481751019)

[Chapter III | Detailed design 7](#_Toc481751020)

[3.1 System class diagram 7](#_Toc481751021)

[3.2 Class diagram description 8](#_Toc481751022)

[CD-01: Users 8](#_Toc481751023)

[CD-02: Project 9](#_Toc481751024)

[CD-03: Task 9](#_Toc481751025)

[CD-04: TaskLog 10](#_Toc481751026)

[CD-05: Comment 10](#_Toc481751027)

[CD-06: Notify 11](#_Toc481751028)

[CD-07: UserService 11](#_Toc481751029)

[CD-08: ProjectService 13](#_Toc481751030)

[CD-09: TaskService 14](#_Toc481751031)

[CD-10: CommentService 15](#_Toc481751032)

[CD-11: UserController 16](#_Toc481751033)

[CD-12: AuthController 17](#_Toc481751034)

[CD-13: ProjectController 18](#_Toc481751035)

[CD-14: TaskController 19](#_Toc481751036)

[CD-15: CommentController 20](#_Toc481751037)

[3.3 Sequence diagram 21](#_Toc481751038)

[3.3.1 Feature 1 21](#_Toc481751039)

[3.3.2 Feature 2 26](#_Toc481751040)

[3.3.3 Feature 3 31](#_Toc481751041)

[3.3.4 Feature 4 33](#_Toc481751042)

[Chapter IV | UI Design 35](#_Toc481751043)

**Table of Figures**

[Figure 1 System architecture 6](#_Toc481758899)

[Figure 2 Class diagram of WRMS 7](#_Toc481758900)

[Figure 3 SD-01 Registration 21](#_Toc481758901)

[Figure 4 SD-02 View profile 22](#_Toc481758902)

[Figure 5 SD-03 Edit profile 23](#_Toc481758903)

[Figure 6 SD-04 Login 24](#_Toc481758904)

[Figure 7 SD-05 Logout 25](#_Toc481758905)

[Figure 8 SD-06 Add code 25](#_Toc481758906)

[Figure 9 SD-07 View project 26](#_Toc481758907)

[Figure 10 SD-08 Add project 26](#_Toc481758908)

[Figure 11 SD-09 Edit project 27](#_Toc481758909)

[Figure 12 SD-10 Delete project 27](#_Toc481758910)

[Figure 13 SD-11 View task 28](#_Toc481758911)

[Figure 14 SD-12 Add task 28](#_Toc481758912)

[Figure 15 SD-13 Edit task 29](#_Toc481758913)

[Figure 16 SD-14 Delete task 29](#_Toc481758914)

[Figure 17 SD-15 Move a task 30](#_Toc481758915)

[Figure 18 SD-16 View TaskLog 30](#_Toc481758916)

[Figure 19 SD-17 View Comment 31](#_Toc481758917)

[Figure 20 SD-18 Add comment 31](#_Toc481758918)

[Figure 22 SD-19 Delete comment 32](#_Toc481758919)

[Figure 23 SD-20 View weekly report 33](#_Toc481758920)

[Figure 24 SD-21 Receive web notification 33](#_Toc481758921)

[Figure 25 SD-22 Receive Email notification 34](#_Toc481758922)

[Figure 26 UI-01 Login 35](#_Toc481758923)

[Figure 27 UI-02 Profile 35](#_Toc481758924)

[Figure 28 UI-03 Edit profile 36](#_Toc481758925)

[Figure 29 UI-04 Student’s dashboard 36](#_Toc481758926)

[Figure 30 UI-05 Task page (List) 37](#_Toc481758927)

[Figure 31 UI-06 Task page (card) 37](#_Toc481758928)

[Figure 32 UI-07 Task page (activity) 38](#_Toc481758929)

[Figure 33 UI-08 Task detail page 38](#_Toc481758930)

[Figure 34 UI-09 Comment and notification 39](#_Toc481758931)

[Figure 35 UI-10 report page 39](#_Toc481758932)

[Figure 36 UI-11 Print the weekly report by browser 40](#_Toc481758933)

# **Chapter I | Introduction**

# **Purpose**

The purpose of this document is to plan the structure of the system follow from SRS. It will help developers to understand the overall system quicker and deeper detail. This document includes the software design of WIL Report management system which are System architecture, a system class diagram, detail description of class diagram, and sequence process of each use case.

# **Scope**

The scope of this document contain:

* Overall class diagram
* Detail of each class diagram including attribute and method
* Sequence diagram of each use case
* UI design

# **Acronyms and Definition**

|  |  |
| --- | --- |
| Acronym | Stands for |
| SDD | Software design document |
| CD | Class diagram |
| SD | Sequence diagram |
| UI | User Interface |
| WRMS | WIL Report Management System |
| SRS | Software Requirement Specification |

# **Chapter II | Class diagram**

## **System class diagram**

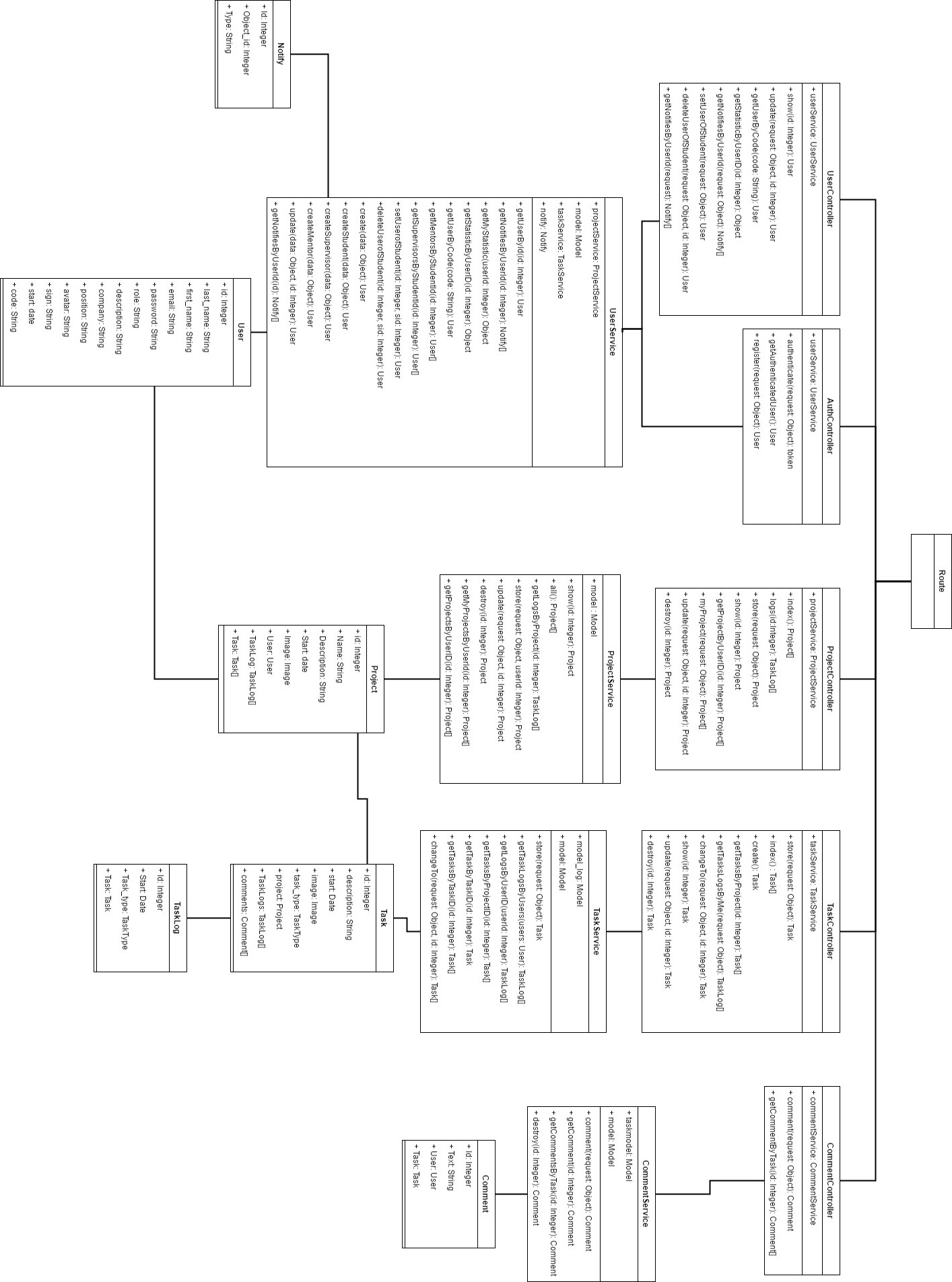
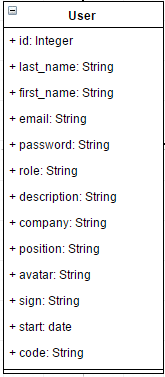


Figure 2 Class diagram of WRMS

## **Class diagram description**

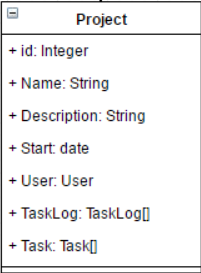
### **Users**



Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | id | Storing an id for identifying the user | Integer |
|  | first\_name | Storing a first name of the user | String |
|  | last\_name | Storing a last name of the user | String |
|  | email | Storing an email of the user | String |
|  | password | Storing a password of the user | String |
|  | description | Storing a description of the user | String |
|  | company | Storing a company of the user | String |
|  | position | Storing a position of the user | String |
|  | avatar | Storing a path of profile image | String |
|  | sign | Storing a sign of user | String |
|  | start | Storing a start date of user | Date |
|  | role | Storing a role of user | String |
|  | code | Storing a code of the user | String |

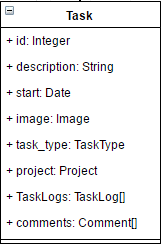
### **Project**



Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | id | Storing an id for identifying the project | Integer |
|  | Name | Storing a name of the project | String |
|  | Description | Storing description of the project | String |
|  | Start | Storing the start date of the project | Date |
|  | User | Relate the user object with project object by user id | User object |
|  | TaskLog | Storing a list of TaskLog | Array of TaskLog object |
|  | Task | Storing a list of tasks | Array of Task object |

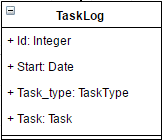
### **Task**



Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | id | Storing an id of the task | Integer |
|  | description | Storing a description of the task | String |
|  | start | Storing a start date of the task | Date |
|  | image | Storing an image of the task | Image |
|  | task\_type | Storing a type of the task | TaskType object |
|  | project | Storing a project of task | Project object |
|  | TaskLogs | Storing the history of the task | Array of TaskLog object |
|  | comment | Storing comments of task | Array of Comment object |

### **TaskLog**



Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | Id | Storing an id of the TaskLog object | Integer |
|  | Start | Storing the start date of the TaskLog | Date |
|  | Task\_type | Storing the type of the TaskLog | TaskType object |
|  | Task | Storing the task of TaskLog | Task object |

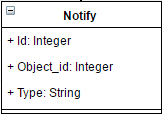
### **Comment**



Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | Id | Storing an id of the comment | Integer |
|  | Text | Storing a text of the comment | String |
|  | User | Storing the user of the comment | User object |
|  | Task | Storing a task of the comment | Task object |

### **Notify**



Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | Id | Storing an id of the Notify object | Integer |
|  | Object\_id | Storing an object id of Notify object | Integer |
|  | Type | Storing a type of Notify object | String |

### **UserService**



Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | projectService | An object for managing a project for example create, delete project | projectService Object |
|  | model | An object that contains the user data, provides access to that data, and implements logic to manipulate the data. | model object |
|  | taskService | An object for managing a task for example create, delete project | taskService Object |
|  | notify | An object for storing notification of a user | notify Object |

Method Detail

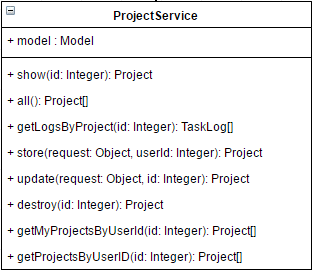
|  |  |  |  |
| --- | --- | --- | --- |
| Method name | Description | Parameters | Return |
| getUserById(id: Integer): User | This method uses for getting the id of user. | id: Integer | User Object |
| getNotifiesByUserID(id Integer):Notify[] | This method uses for getting the notifications of specific user | id: Integer | Array of Notify object |
| getMyStatistic(userId):Object | This method uses for getting their own statistics of the user | userId: Integer | Object |
| getStatisticByUserID(id: Integer): Object | This method uses for getting the statistics of specific user | Id: Integer | Object |
| getUserByCode(code: String): User | This method uses for getting the user object by the code of user | code: String | User Object |
| getMentorsByStudentId(id: Integer): User[] | This method uses for getting the list of mentors by the student ID | id: Integer | Array of User object |
| getSupervisorsByStudentId(id: Integer): User[] | This method uses for getting the list of supervisors by the student ID | id: Integer | Array of User object |
| setUserOfStudent(id: Integer, sid: Integer): User | This method uses for matching mentor and supervisor with student by inputting user ID(mentor and supervisor) and Student ID | id: Integer  sid: Integer | User object |
| deleteUserOfStudent(id: Integer, sid: Integer):User | This method uses for deleting the matching mentor and supervisor from the student object | id: Integer  sid: Integer | User object |
| create(data: Object): User | This method uses for creating the user object. | data: Object | User Object |
| createStudent(data: Object): User | This method uses for creating the student object | data: Object | User Object |
| createSupervisor(data: Object):User | This method uses for creating the supervisor object | data: Object | User Object |
| createMentor(data: Object):User | This method uses for creating the mentor object | data: Object | User Object |
| update(data: Object, id: Integer): User | This method uses for updating the user object. | data: Object  id: Integer | User Object |
| getNotifiesByUserId(id:Integer): Notify[] | This method uses for getting all notification of specific user | id:Integer | Array of Notify object |

แต่ละ method return อะไรเมื่อไร และมันทำยังไงให้ได้มาซึ่ง output นั้น

เราจะเอาตรงนี้ไปทำ unit test ต่อ

ถ้าอันไหนเป็น framework gen ก็เขียนมาเลยว่า เป็น framework แล้วไม่ต้องทำ unit test

### **ProjectService**



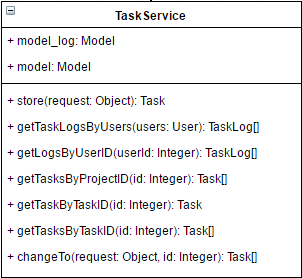
Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | model | An object that contains the project data, provides access to that data, and implements logic to manipulate the data. | model object |

Method Detail

|  |  |  |  |
| --- | --- | --- | --- |
| Method name | Description | Parameters | Return |
| show(id):project | This method uses for getting a project by using project id | Id: Integer | Project object |
| all():project[] | This method uses for getting all projects | - | Array of Project object |
| getLogsByProject(id:Integer):TaskLog[] | This method uses for getting all tasklogs by the id of project | id:Integer | Array of TaskLog object |
| store(request: Object, userId: Integer): Project | This method uses for saving the input data into the project object | request: Object  userId: Integer | Project object |
| update(request: Object, id: Integer): Project | This method uses for updating the input data into the project object | request: Object  id: Integer | Project |
| destroy(id:Integer):Project | This method uses for deleting the project object | id:Integer | Project |
| getMyProjectsByUserID(id: Integer): project[] | This method uses for getting their own project objects. | id: Integer | Array of project object |
| getProjectByUserId(id: Integer): project[] | This method uses for getting all project objects by id of the user. | id: Integer | Array of project object |

### **TaskService**



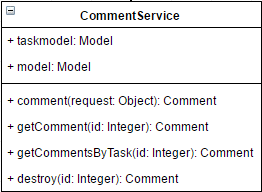
Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | model\_log | An object that contains the task log data, provides access to that data, and implements logic to manipulate the data. | Model |
|  | model | An object that contains the task data, provides access to that data, and implements logic to manipulate the data. | Model |

Method Detail

|  |  |  |  |
| --- | --- | --- | --- |
| Method name | Description | Parameters | Return |
| store(request: Object): Task | This method uses for saving the input data into the task object | request: Object | Task object |
| getTaskLogsByUsers(users: User): TaskLog[] | This method uses for getting all TaskLog of all related users by inputting the user object | users: User | Array of TaskLog |
| getLogsByUserID(userId: Integer): TaskLog[] | This method uses for getting all TaskLog of the specific user by inputting the user id | userId: Integer | Array of TaskLog |
| getTasksByProjectID(id: Integer): Task[] | This method uses for getting all Task of a specific project | id: Integer | Array of Task |
| getTaskByTaskID(id: Integer): Task | This method uses for getting the task by inputting task ID | id: Integer | Task object |
| getTasksByTaskID(id: Integer): Task[] | This method uses for getting all Task by inputting task ID | id: Integer | Array of Task |
| changeTo(request: Object, id: Integer): Task | This method uses for changing the status of specific task | request: Object  id: Integer | Task object |

### **CommentService**



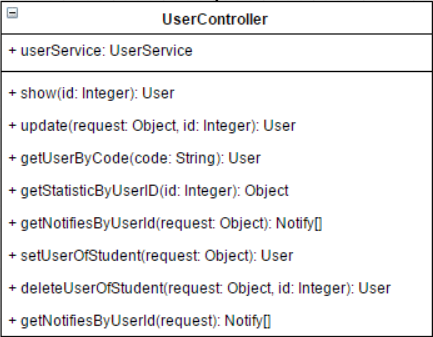
Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | taskmodel | An object that contains the task data, provides access to that data, and implements logic to manipulate the data. | Model |
|  | model | An object that contains the comment data, provides access to that data, and implements logic to manipulate the data. | Model |

Method Detail

|  |  |  |  |
| --- | --- | --- | --- |
| Method name | Description | Parameters | Return |
| comment(request: Object): Comment | This method uses for adding a comment | request: Object | Comment object |
| getComment(id: Integer): Comment | This method uses for getting a comment | id: Integer | Comment object |
| getCommentsByTask(id: Integer): Comment | This method uses for getting all comment of a specific task | id: Integer | Comment object |
| destroy(id: Integer): Comment | This method uses for deleting the comment from the database | id: Integer | Comment object |

### **UserController**



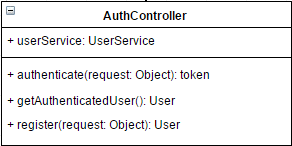
Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | userService | Object of userService, it uses to manage the user object by calling methods from userService class. | UserService Object |

Method Detail

|  |  |  |  |
| --- | --- | --- | --- |
| Method name | Description | Parameters | Return |
| show(id: Integer): User | This method uses for displaying the user object. | id: Integer | User Object |
| update(request: Object): User | This method uses for updating the new data of the user. | request: Object | User Object |
| getUserByCode(code: String): User | This method uses for getting the user object by inputting the code of supervisor or mentor. | code: String | User Object |
| getStatisticByUserID(id: Integer): Object | This method uses for getting the statistics of a specific user | id: Integer | Object |
| getNotifiesByUserId(request: Object): Notify[] | This method uses for getting the notifications of a specific user | request: Object | Array of Notify object |
| setUserOfStudent(request: Object): User | This method uses for setting the mentor and supervisor of the student. | request: Object | User Object |
| deleteUserOfStudent(request: Object, id: Integer): User | This method uses for deleting the matching mentor or supervisor of the student | request: Object  id: Integer | User Object |
| getNotifiesByUserId (request:Object): Notify[] | This method uses for getting all notification of specific user | request: Object | Array of Notify object |

### **AuthController**



Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | userService | Object of userService, it uses to manage the user object by calling methods from userService class. | UserService Object |

Method Detail

|  |  |  |  |
| --- | --- | --- | --- |
| Method name | Description | Parameters | Return |
| authenticate(request: Object): token | This method uses for receiving username and password from ‘request object’, then find the use from database. | request: Object | token Object |
| getAuthenticatedUser(): User | This method uses for getting the authenticated user object | - | User Object |
| register(request: Object): User | This method uses for receiving the user information which called ‘request’, then create the user object in the database. | request: Object | User Object |

### **ProjectController**



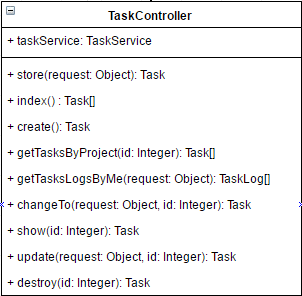
Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | projectService | Object of projectService, it uses to manage the project object by calling methods from projectService class. | ProjectService Object |

Method Detail

|  |  |  |  |
| --- | --- | --- | --- |
| Method name | Description | Parameters | Return |
| index(): Project[] | This method uses for getting all project object | request: the object which contain the owner data. | Array of Project object |
| logs(id:Integer): TaskLog[] | This method uses for getting logs of specific project by using project id | - | Array of TaskLog object |
| store(request: Object): Project | This method uses for storing the project data which called ‘request’ object in the database. | request: Object | Project Object |
| show(id: Integer): Project | This method uses for displaying the project object data which are project name, project description, start date, image, creator name, and tasks. | id: Integer | Project Object |
| getProjectByUserID(id: Integer): Project[] | This project uses for getting the list of the projects by inputting userID | in: Integer | Array of Project object |
| myProject(id: Integer): Project[] | This project uses for getting the list of the projects of the owner. | id: Integer | Array of Project object |
| update(request: Object, id: Integer): Project | This method uses for updating the project object data. | request: Object  id: Integer | Project Object |
| destroy(id: Integer): Project | This method uses for removing the project object. | id: Integer | Project Object |

### **TaskController**



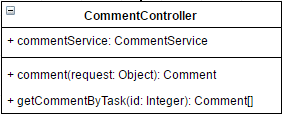
Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | taskService | Object of taskService, it uses to manage the task object by calling methods from taskService class. | TaskService object |

Method Detail

|  |  |  |  |
| --- | --- | --- | --- |
| Method name | Description | Parameters | Return |
| store(request: Object): Task | This method uses for creating a task | request: Object | Task object |
| index() : Task[] | This method uses for getting all tasks in the database | - | Array of Task object |
| getTasksByProject(id: Integer): Task[] | This method uses for getting all tasks of a specific project | id: Integer | Array of Task object |
| getTasksLogsByMe(request: Object): TaskLog[] | This method uses for getting all tasks logs of the current user | request: Object | Array of TaskLog object |
| changeTo(request: Object, id: Integer): Task | This method uses for changing the status of specific task by task id | request: Object  id: Integer | Task object |
| show(id: Integer): Task | This method uses for displaying the data of the specific task | id: Integer | Task object |
| update(request: Object, id: Integer): Task | This method uses for updating the data of a task | request: Object  id: Integer | Task object |
| destroy(id: Integer): Task | This method uses for deleting the task | id: Integer | Task object |

### **CommentController**



Entities

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Type |
|  | commentService | Object of commentService, it uses to manage the comment object by calling methods from commentService class. | CommentService |

Method Detail

|  |  |  |  |
| --- | --- | --- | --- |
| Method name | Description | Parameters | Return |
| comment(request: Object): Comment | This method uses for adding a comment | request: Object | Comment object |
| getCommentByTask(id: Integer): Comment[] | This method uses for getting all comment of a specific task | id: Integer | Array of comment object |

## **Sequence diagram**

### **3.3.1 Feature 1**

1. **Register**

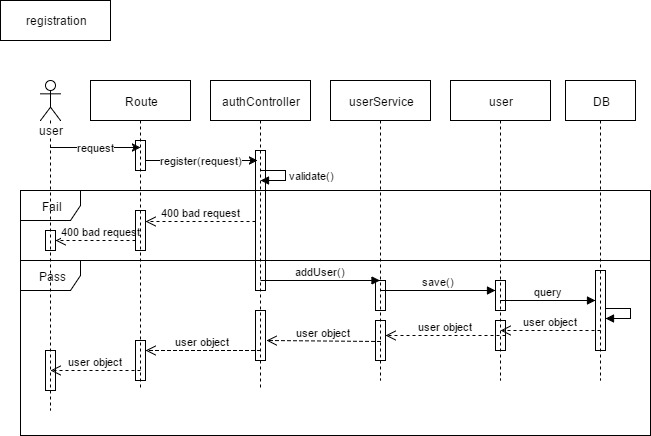


Figure 3 SD-01 Registration

1. **View profile**

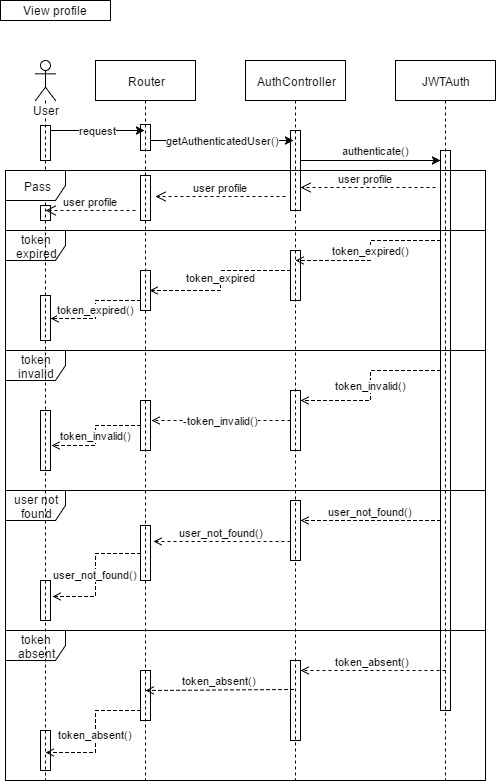


Figure 4 SD-02 View profile

1. **Edit profile**

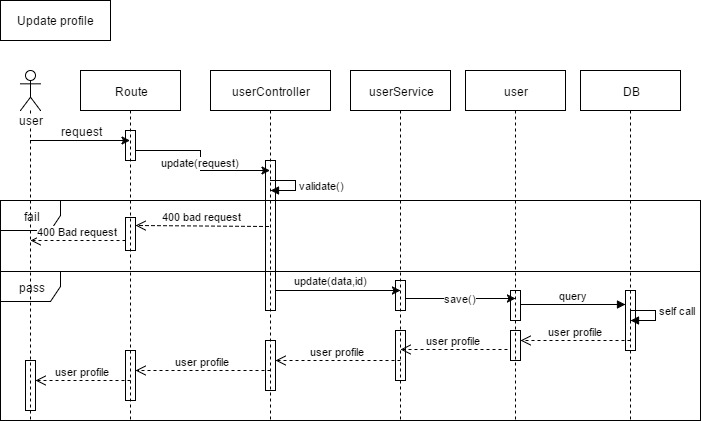


Figure 5 SD-03 Edit profile

1. **Login**

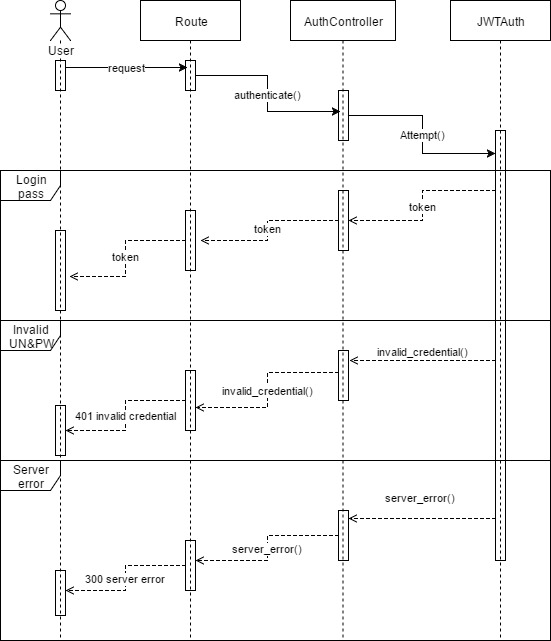


Figure 6 SD-04 Login

1. **Logout**

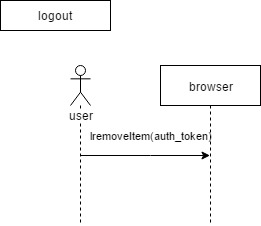


Figure 7 SD-05 Logout

1. **Add a code of supervisor or mentor**

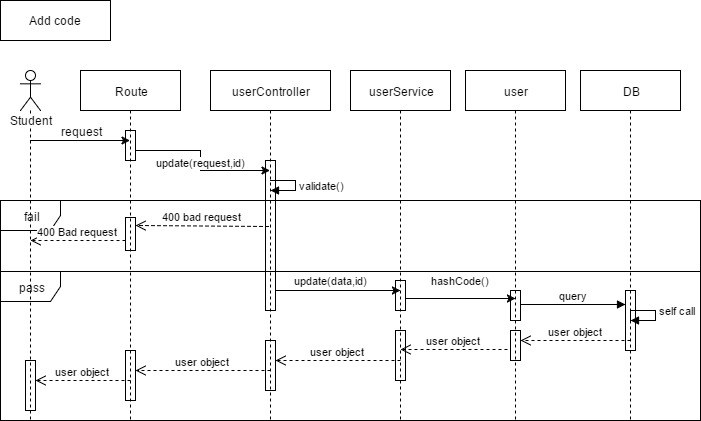


Figure 8 SD-06 Add code

### **3.3.2 Feature 2**

1. **View project**

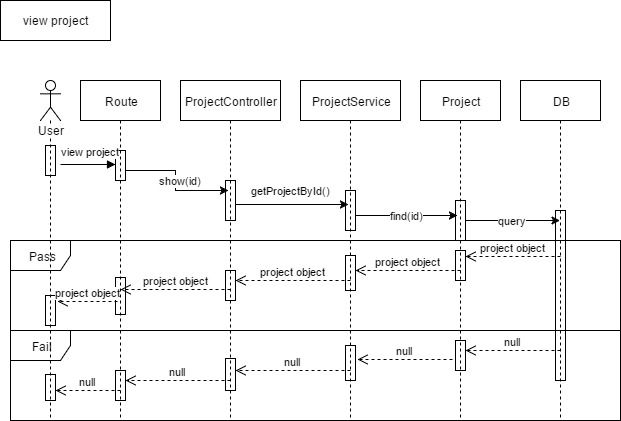


Figure 9 SD-07 View project

1. **Add a project**

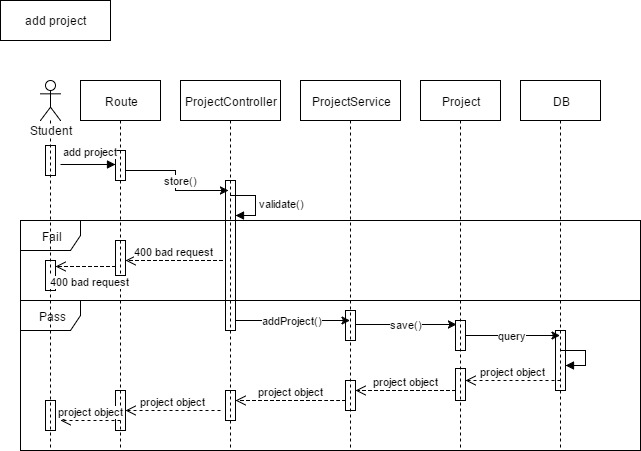


Figure 10 SD-08 Add project

1. **Edit a project**



Figure 11 SD-09 Edit project

1. **Delete a project**

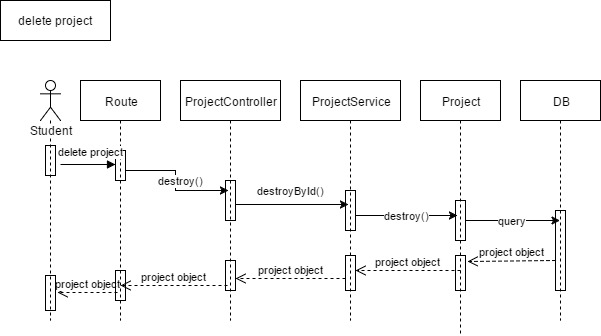


Figure 12 SD-10 Delete project

1. **View a task**

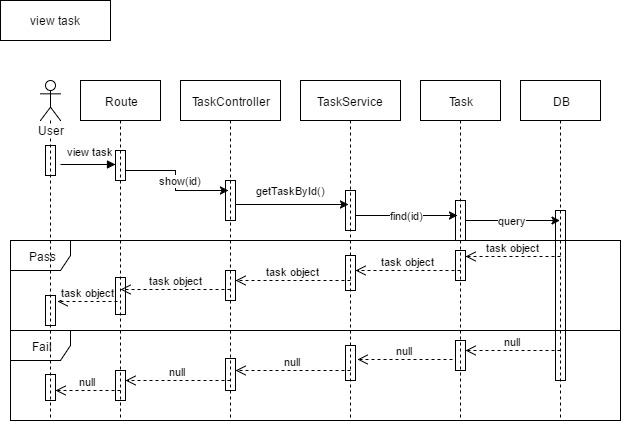


Figure 13 SD-11 View task

1. **Add a task**

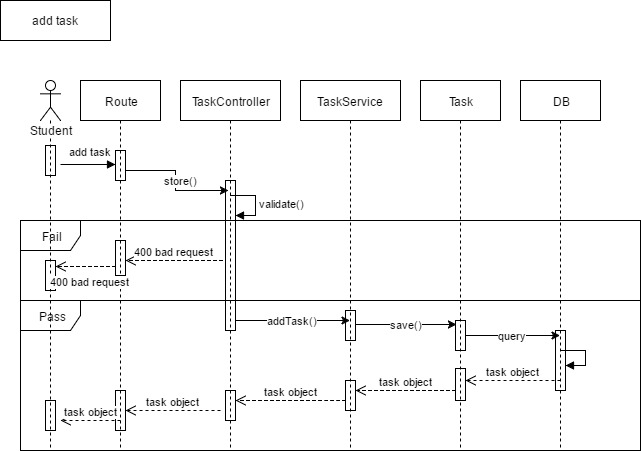


Figure 14 SD-12 Add task

1. **Edit a task**

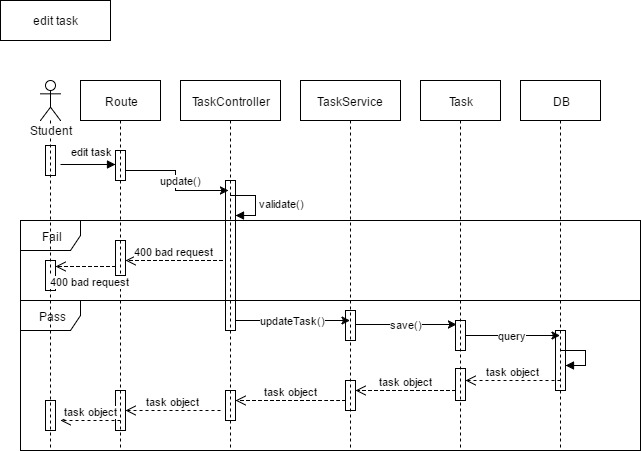


Figure 15 SD-13 Edit task

1. **Delete a task**

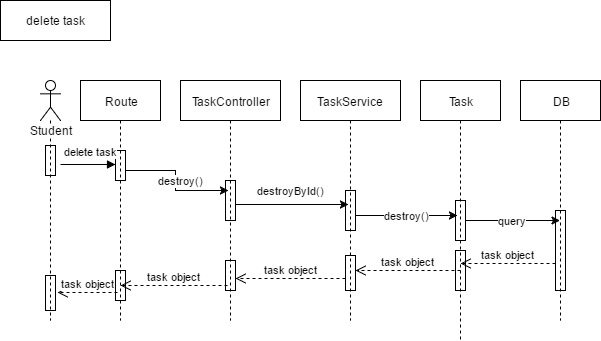


Figure 16 SD-14 Delete task

1. **Move a task**

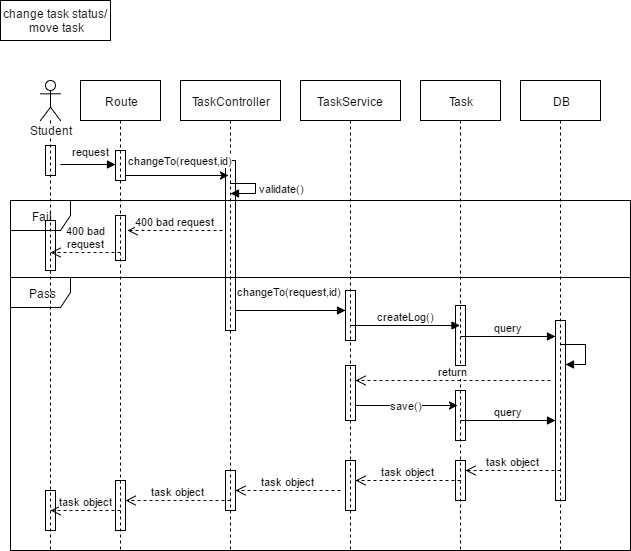


Figure 17 SD-15 Move a task

1. **View a Task log**

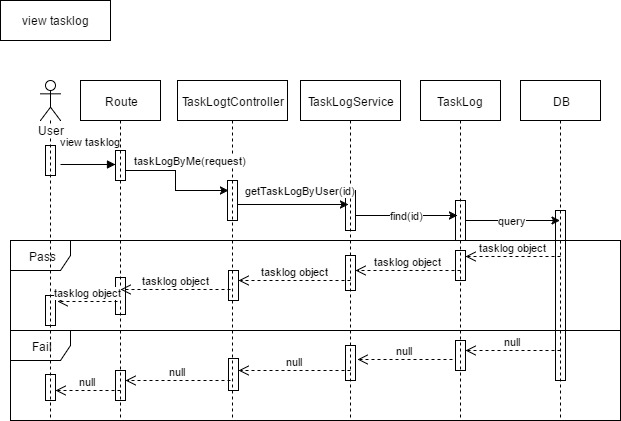


Figure 18 SD-16 View TaskLog

### 3.3.3 Feature 3

1. **View a comment**

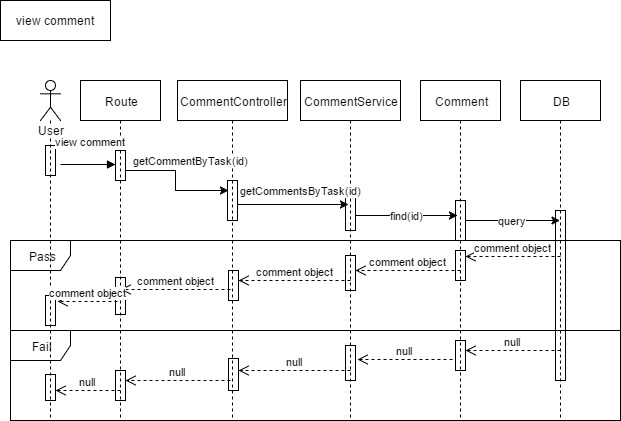


Figure 19 SD-17 View Comment

1. **Add a comment**

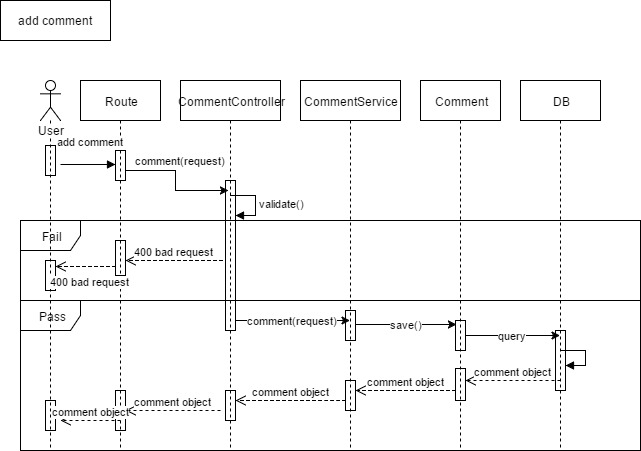


Figure 20 SD-18 Add comment

1. **Delete a comment**

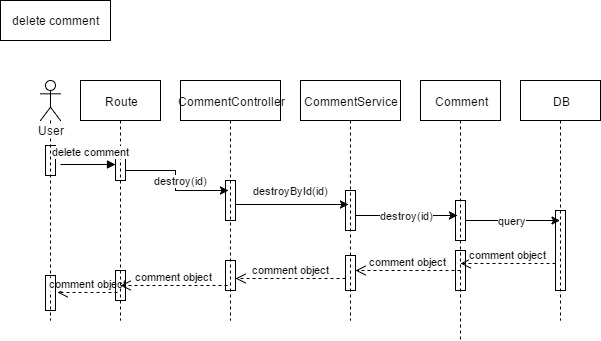


Figure 22 SD-19 Delete comment

1. **View a weekly report**

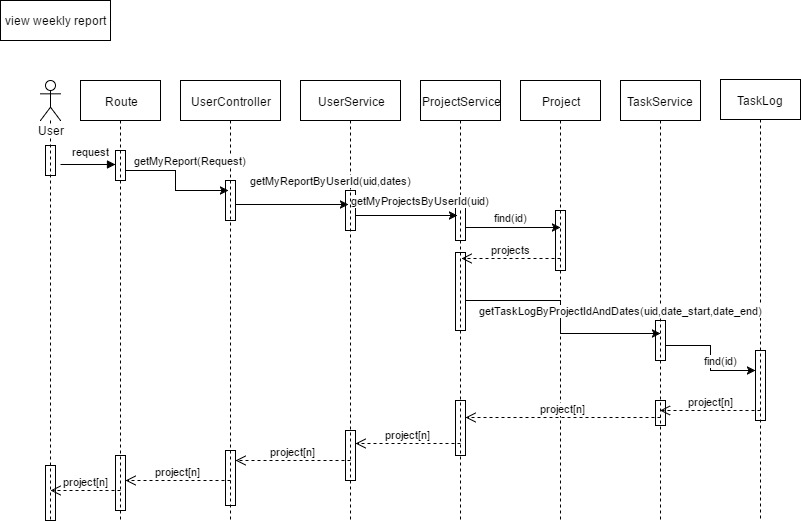


Figure 23 SD-20 View weekly report

### 3.3.4 Feature 4

1. **Receive a web notification**

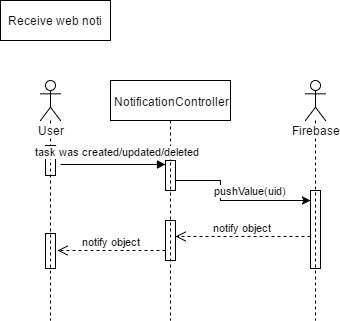


Figure 24 SD-21 Receive web notification

1. **Receive an email notification**

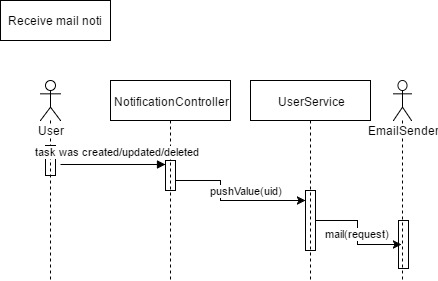
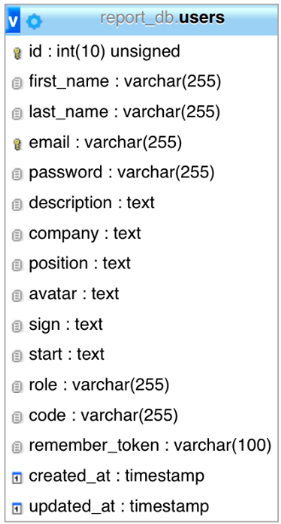


Figure 25 SD-22 Receive Email notification

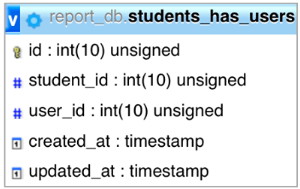
# **Chapter IV | ER diagram**

## Users table



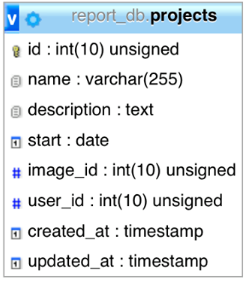
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Field name** | **Type** | **Length** | **PK/FK** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## student\_has\_users table



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Field name** | **Type** | **Length** | **PK/FK** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## projects table



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Field name** | **Type** | **Length** | **PK/FK** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## task table



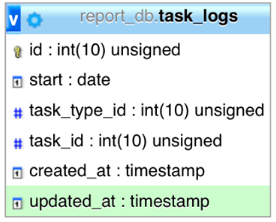
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Field name** | **Type** | **Length** | **PK/FK** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## task\_types table



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Field name** | **Type** | **Length** | **PK/FK** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## task\_logs table



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Field name** | **Type** | **Length** | **PK/FK** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## comments table



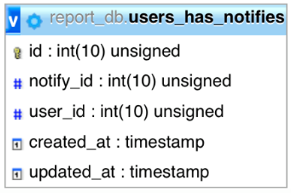
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Field name** | **Type** | **Length** | **PK/FK** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## notifies table



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Field name** | **Type** | **Length** | **PK/FK** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## users\_has\_notifies table



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Field name** | **Type** | **Length** | **PK/FK** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

# **Chapter V| UI Design**



Figure 26 UI-01 Login

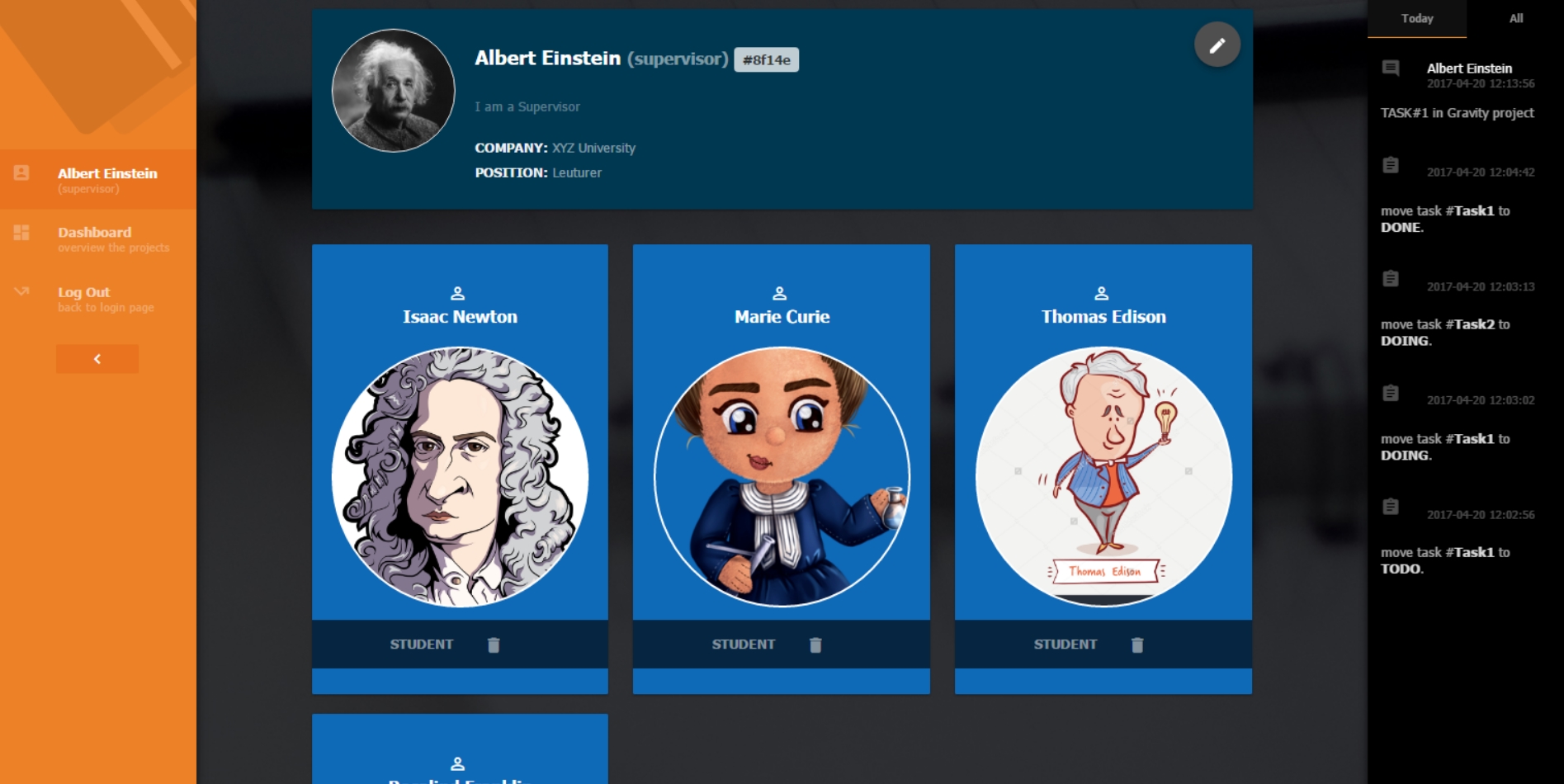


Figure 27 UI-02 Profile

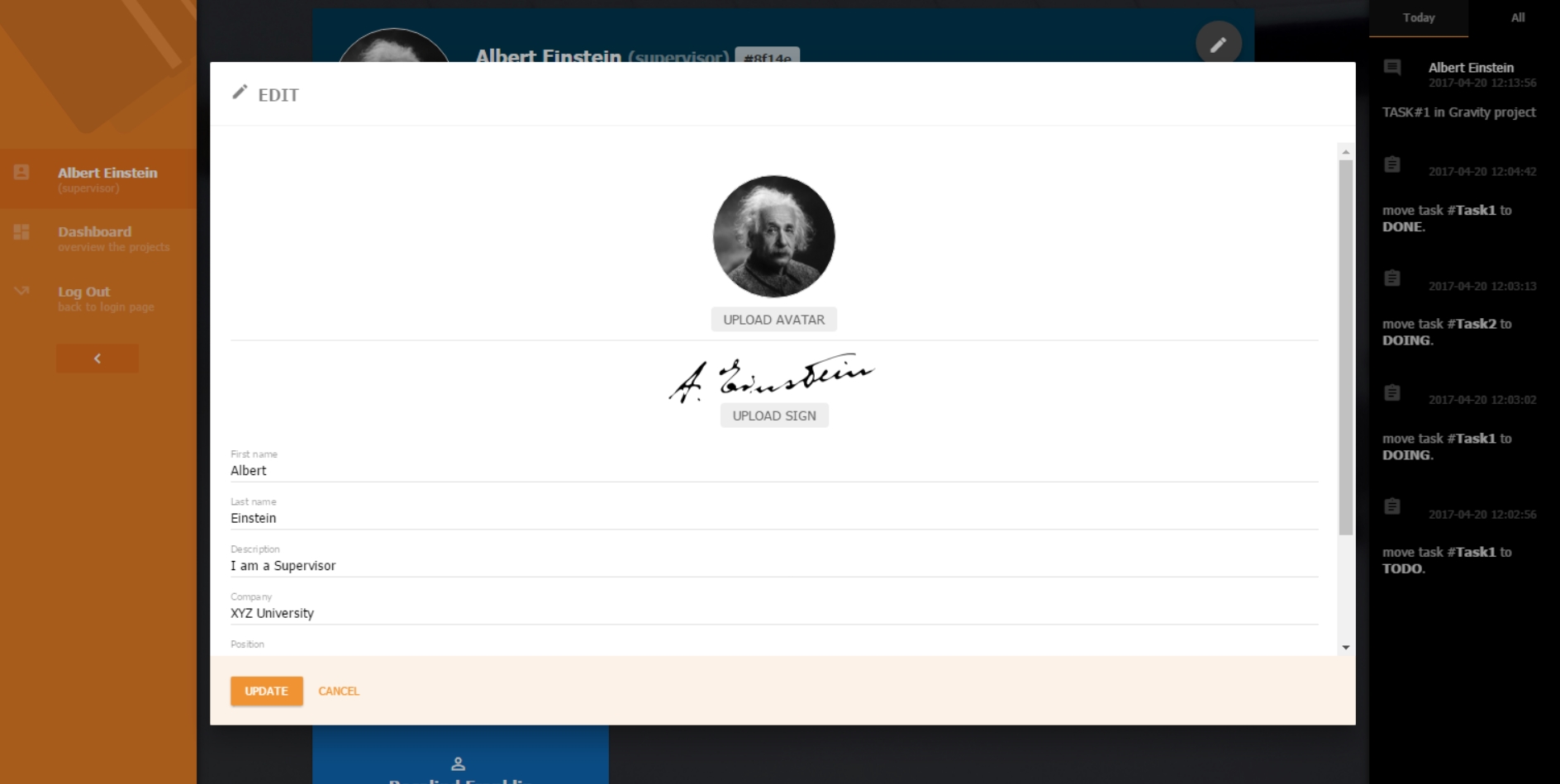


Figure 28 UI-03 Edit profile

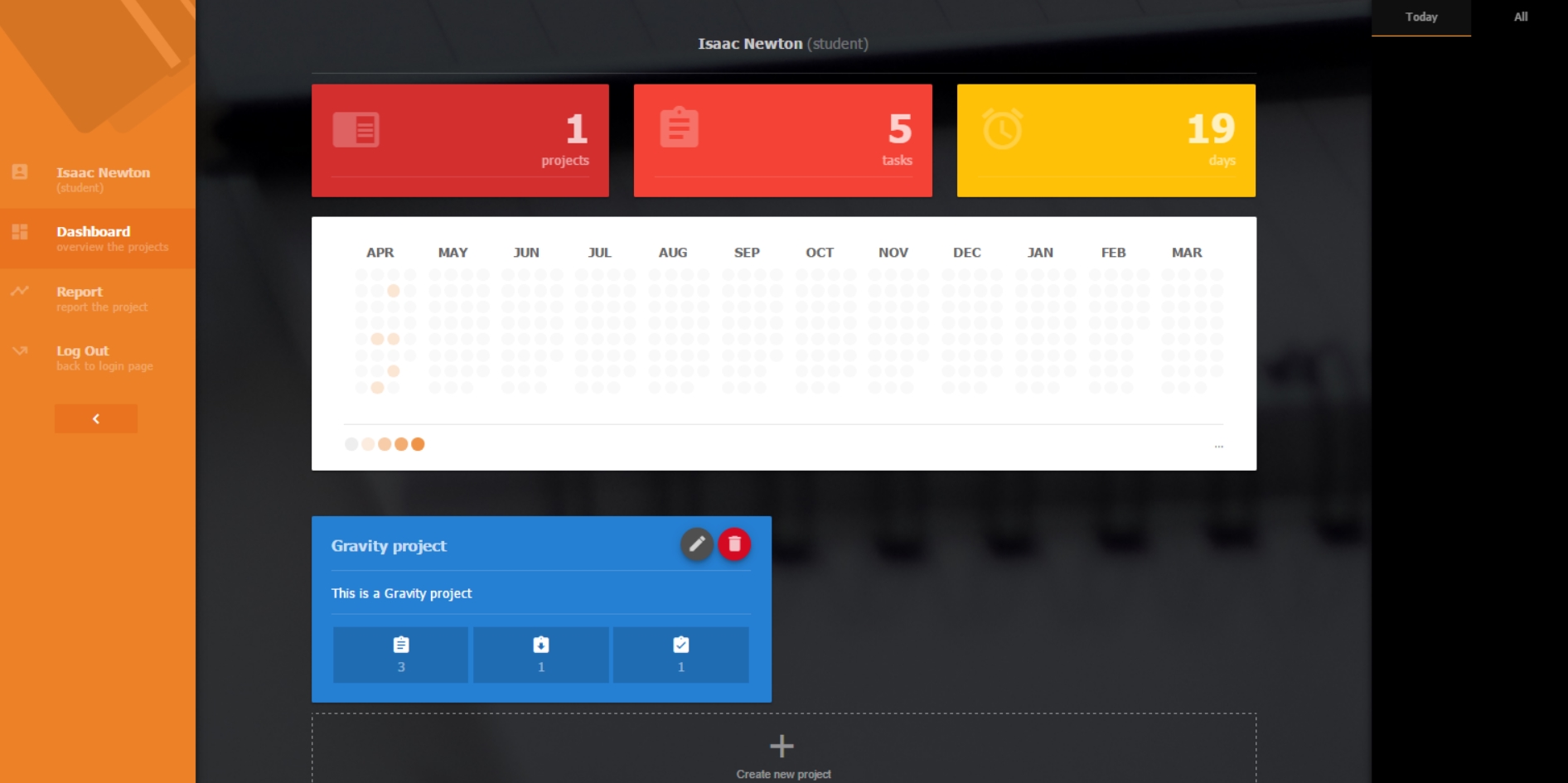


Figure 29 UI-04 Student’s dashboard

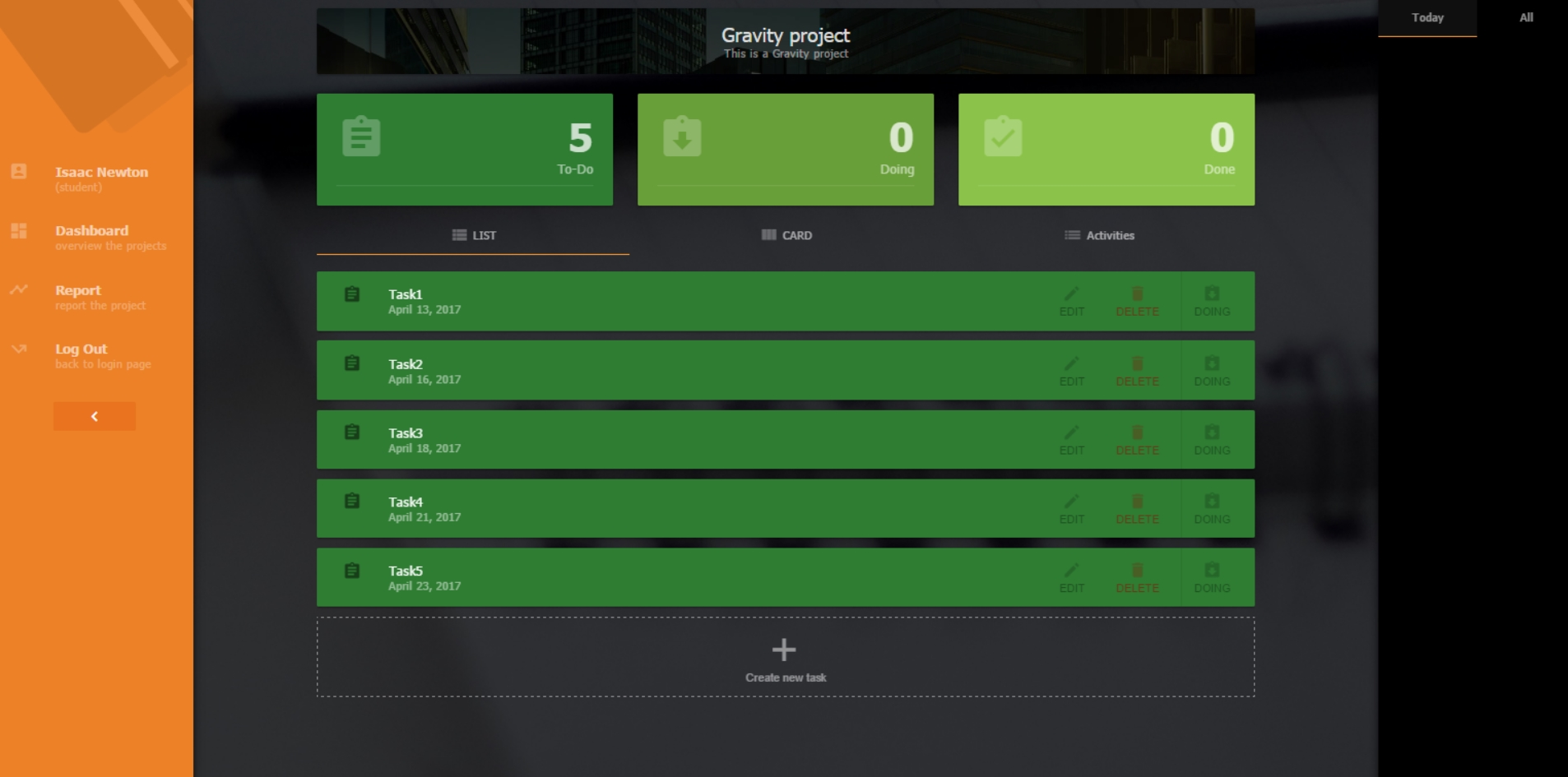


Figure 30 UI-05 Task page (List)



Figure 31 UI-06 Task page (card)

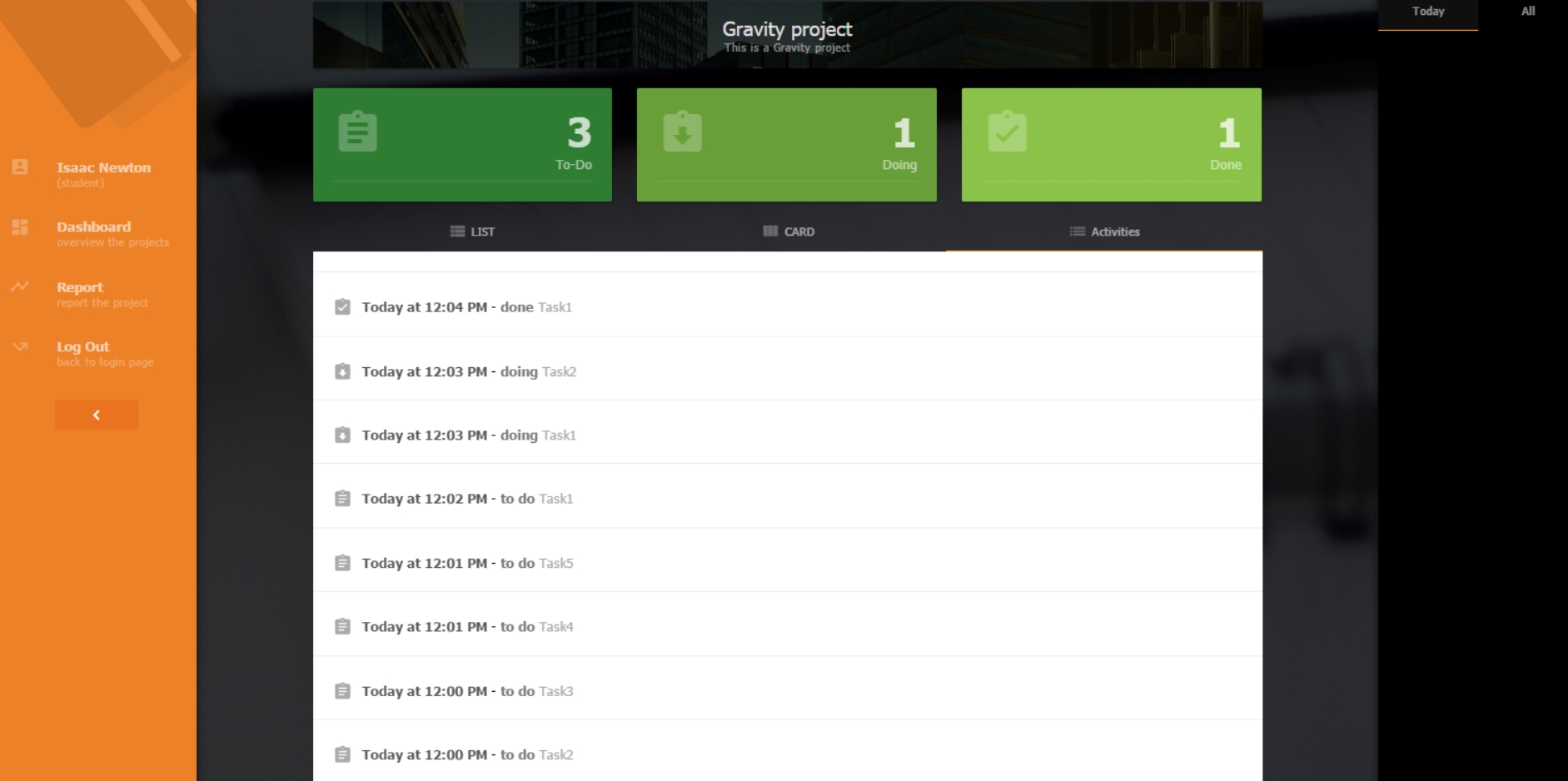


Figure 32 UI-07 Task page (activity)

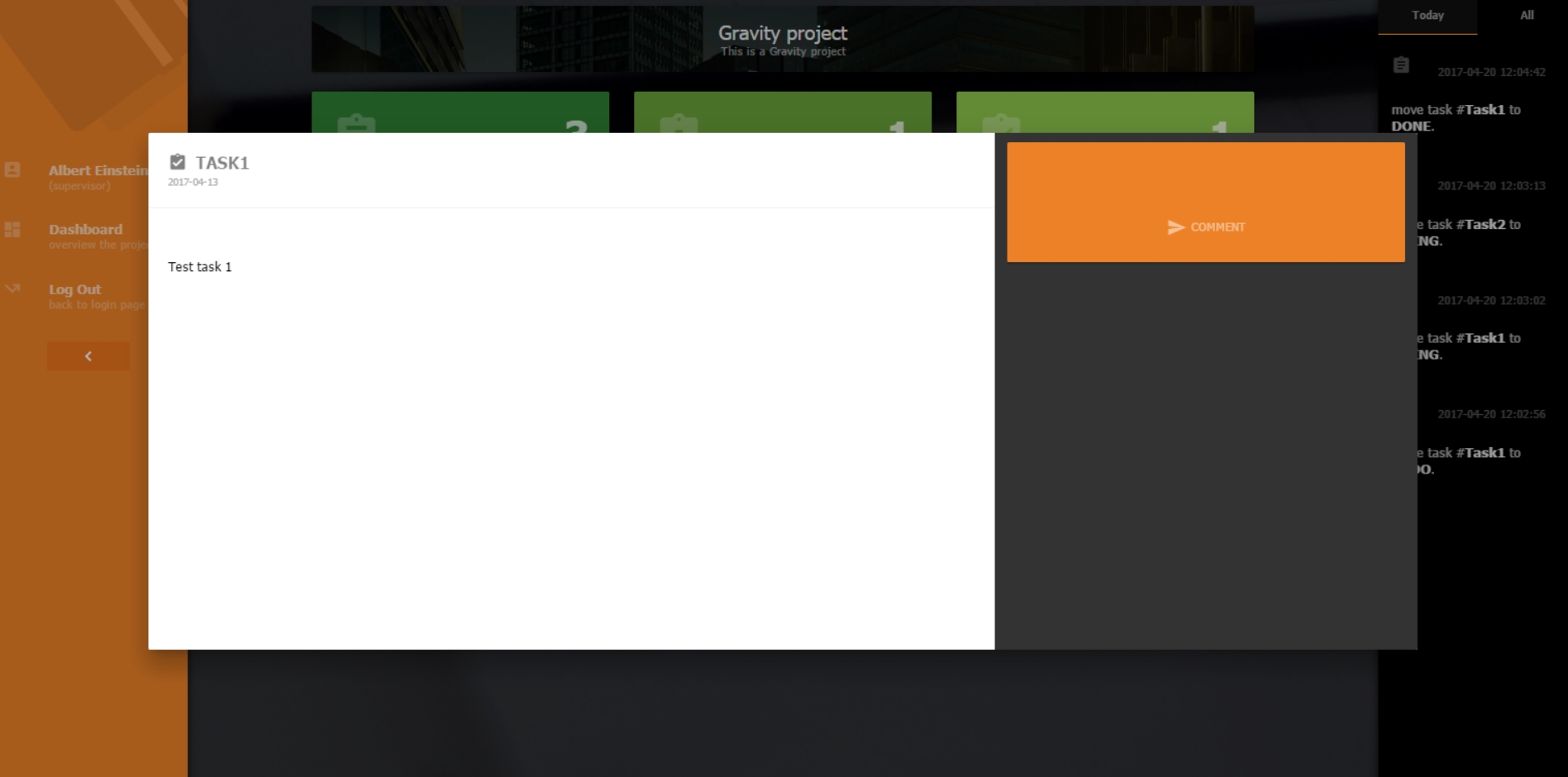


Figure 33 UI-08 Task detail page

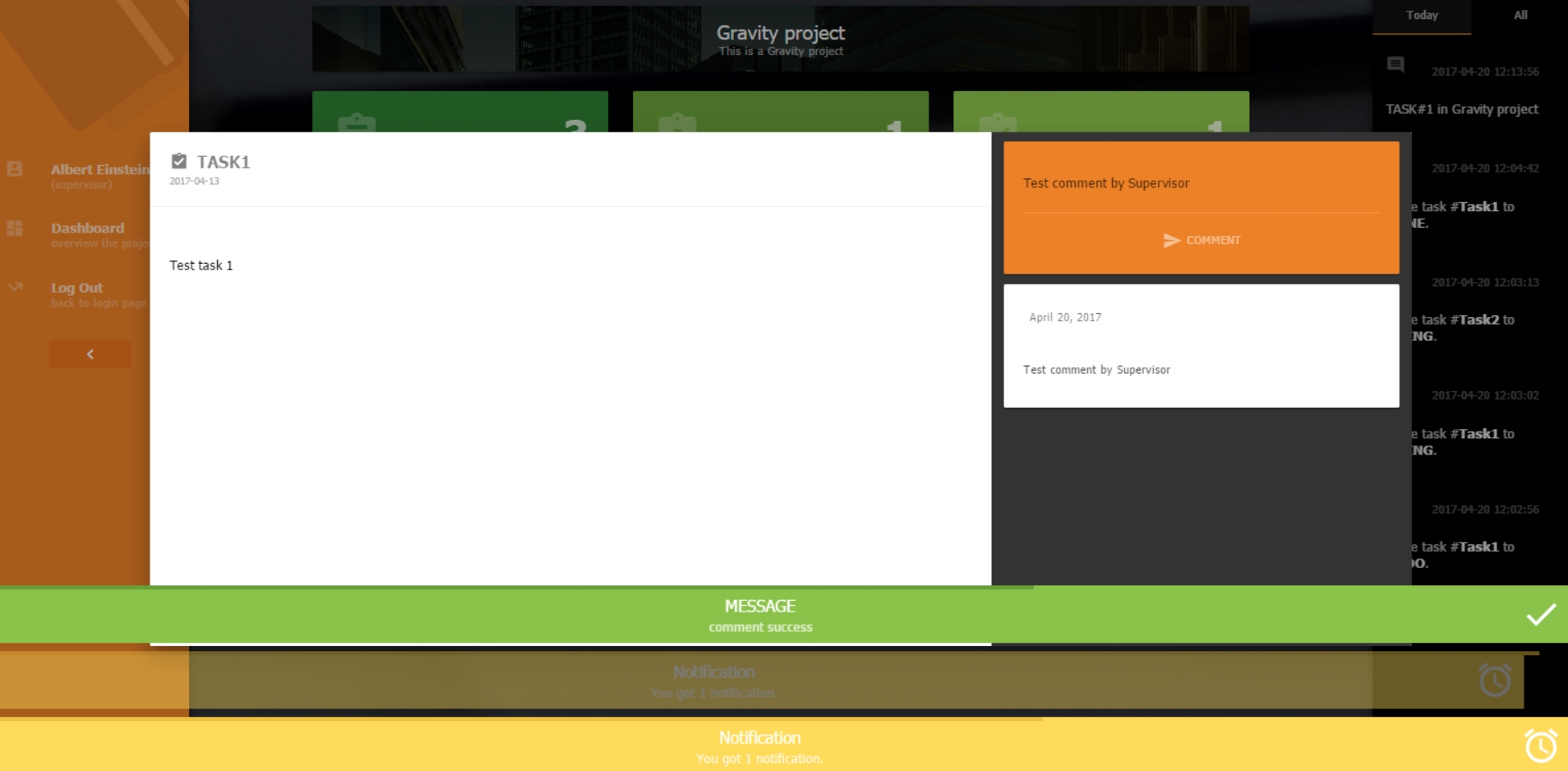


Figure 34 UI-09 Comment and notification

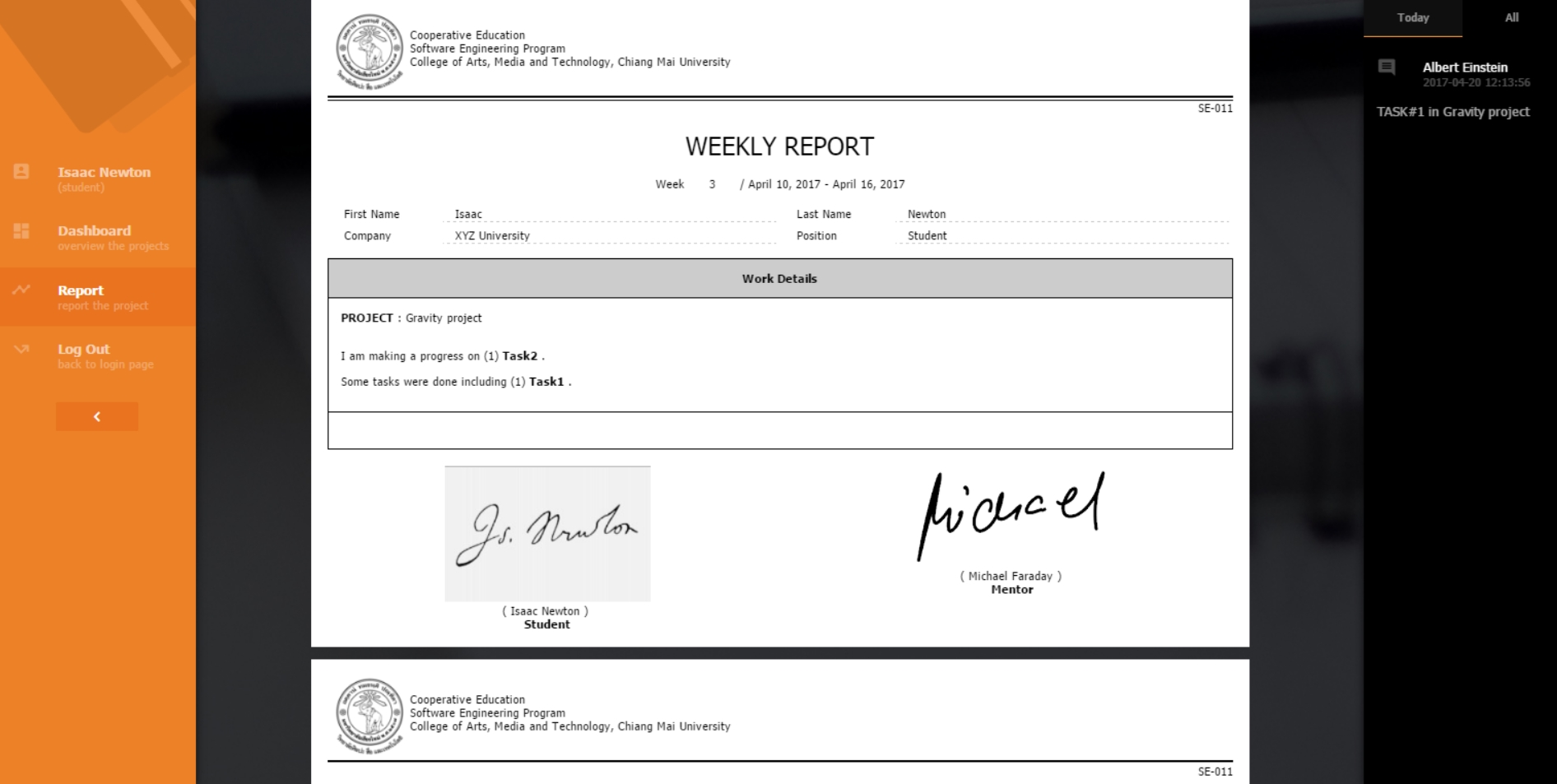


Figure 35 UI-10 report page

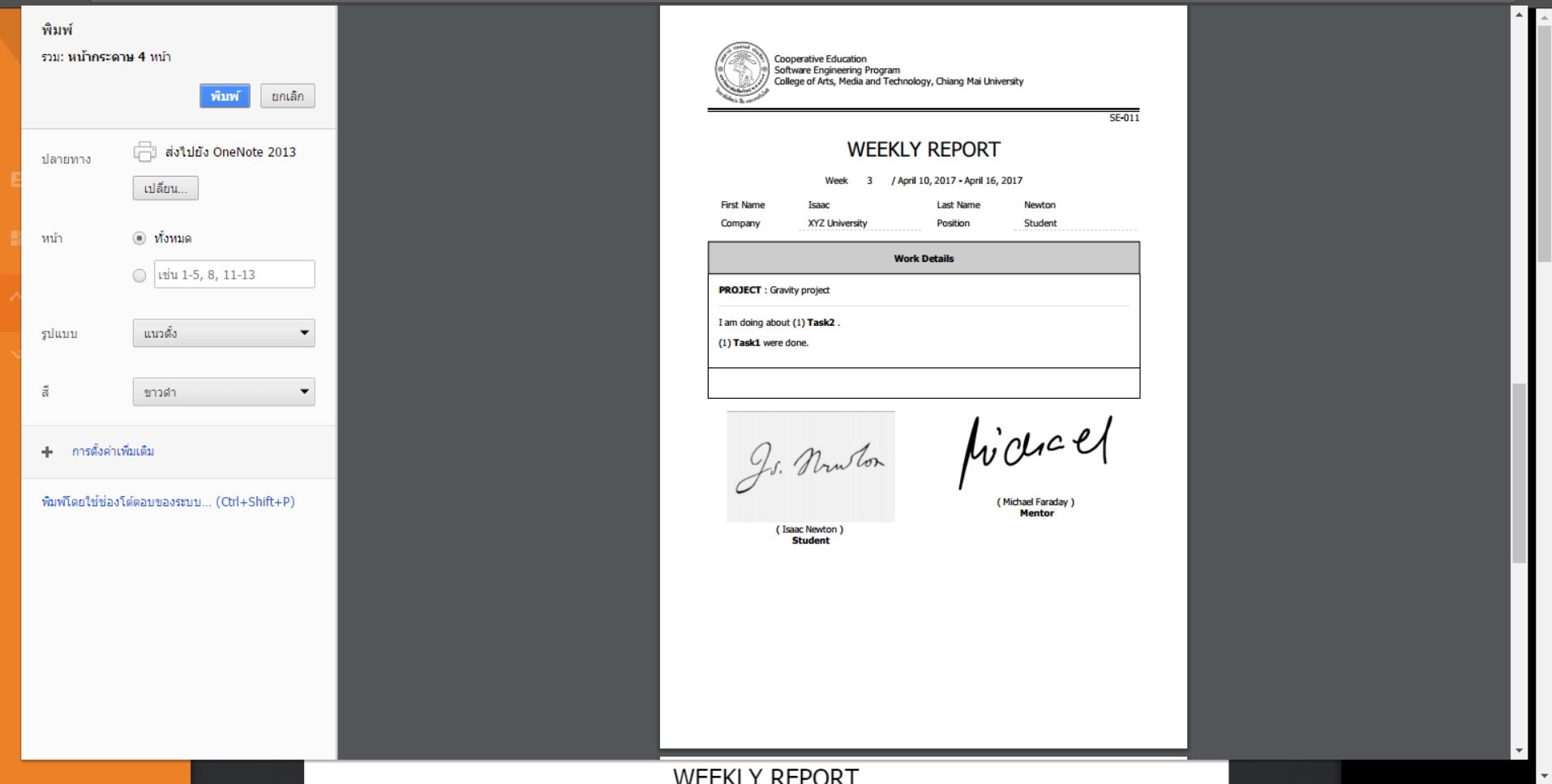


Figure 36 UI-11 Print the weekly report by browser