1. **Visitor can register to the system.**
2. System shall provide UI for the visitor to select the role of user.
3. System shall provide UI for the visitor to receive name, surname, email, password, student\_id, company name.
4. System shall provide UI to display an error message if an input email is not matched with constraint.
5. System shall provide UI to display that the visitor registered successful.
6. System shall provide registration code for supervisor and mentor.
7. System shall provide UI to display an error message if an input name is not matched with constraint.
8. System shall provide UI to display an error message if an input surname is not matched with constraint.
9. System shall provide UI to display an error message if an input email is not matched with constraint.
10. System shall provide UI to display an error message if an input password is not matched with constraint
11. System shall provide UI to display an error message if a company name is not matched with constraint.
12. System shall display a confirmation message “Do you want to save your profile information?”
13. System shall validate name, surname, email, password, student\_id, company name.
14. System shall save username, password, name, surname, email, student\_id, as a new user on the system with the default status for the visitor.
15. System shall save data to database.
16. System shall go back to previous UI.

**URS-02: Users can edit their own profile.**

Users need to login before access the user management page.

1. System shall provide UI for the student to edit name, surname, email, password, student\_id, company name, Mentor and Supervisor code, and signature.
2. System shall provide UI for the mentor to edit name, surname, email, password, company name.
3. System shall provide UI for the supervisor to edit name, surname, email, password, and signature.
4. System shall provide UI to display an error message if the student edit their own information which the “name” is not matched with constraint.
5. System shall provide UI to display an error message if the student edit their own information which the “surname” is not matched with constraint.
6. System shall provide UI to display an error message if the student edit their own information which the “email” is not matched with constraint.
7. System shall provide UI to display an error message if the student edit their own information which the “password” is not matched with constraint.
8. System shall provide UI to display an error message if the student edit their own information which the “student\_id” is not matched with constraint.
9. System shall provide UI to display an error message if the student edit their own information which the “Mentor and supervisor code” does not exist in database.
10. System shall provide UI to display an error message if the student edit their own information which the “company name” is not matched with constraint.
11. System shall provide UI to display an error message if the mentor edit their own information which the “name” is not matched with constraint.
12. System shall provide UI to display an error message if the mentor edit their own information which the “surname” is not matched with constraint.
13. System shall provide UI to display an error message if the mentor edit their own information which the “email” is not matched with constraint.
14. System shall provide UI to display an error message if the mentor edit their own information which the “password” is not matched with constraint.
15. System shall provide UI to display an error message if the mentor edit their own information which the “company name” is not matched with constraint.
16. System shall provide UI to display an error message if the supervisor edit their own information which the “name” is not matched with constraint.
17. System shall provide UI to display an error message if the supervisor edit their own information which the “surname” is not matched with constraint.
18. System shall provide UI to display an error message if the supervisor edit their own information which the “email” is not matched with constraint.
19. System shall provide UI to display an error message if the supervisor edit their own information which the “password” is not matched with constraint.
20. System shall provide “add signature” button to add their signature.
21. System shall save data to database.

**URS-03: Users can login into the system.**

1. System shall provide UI login.
2. System shall receive email and password.
3. System shall verify email and password.
4. System shall provide UI to display the login successful.
5. System shall display an error message that email or password are wrong.
6. System shall navigates the student to access the student dashboard.
7. System shall navigates the mentor to access the mentor dashboard.
8. System shall navigate the supervisor to access the supervisor dashboard.

**URS-04: Users can logout from the system.**

1. System shall provide UI to logout.
2. System shall display a conformation message.
3. System shall logout from the system.
4. System shall provide UI to display that the logout successful.
5. System shall redirect to login page.
6. System go back to previous UI.

**URS-05: Student can add mentor and supervisor code.**

**//enter to edit profile page**

1. System shall provide UI to receive a code.
2. System shall provide an add button for adding another code.
3. System display successful message.
4. System go back to previous UI.

**URS-06: Students can view tasks overview of a project.**

1. System shall connect to database.
2. System shall provide UI to display student dashboard.
3. System shall provide UI to display projects detail page.
4. System shall provide UI to display lists and cards of tasks.

**URS-07: Students can view the statistics of tasks.**

1. System shall connect to database.
2. System shall provide UI to display student dashboard.
3. System shall provide UI to display the statistics of tasks.

**URS-08: Students can add a project.**

1. System shall connect to database.
2. System shall provide UI to display student dashboard.
3. System shall provide “create new project” button.
4. System shall provide UI which receive project name, project description, and due date.
5. System shall display a successful message “A new project is created.”
6. System shall display an error message “Invalid input data. Please recheck it again ”
7. System shall redirect to create a new project detail page with the previous input data.
8. System shall redirect to previous page.
9. System shall save data to database.

**URS-09: Students can delete a project**.

1. System shall connect to database.
2. System shall provide UI to display student’s dashboard.
3. System shall provide UI to display the project detail page.
4. System shall provide delete button interface for deleting a project.
5. System shall display a confirmation message “Are you sure to delete this project?” with “yes” and “no” button.
6. System shall delete a project in database.

**URS-10: Students can add tasks of a project.**

1. System shall connect to database.
2. System shall provide UI to display student dashboard.
3. System shall provide UI to display the project detail page.
4. System shall provide UI which receive tasks name, task description, and task due date, submit button, and cancel button.
5. System validate input data with constraint.
6. System show a successful message “A new task is created.”
7. System display an error message “Invalid input data. Please recheck it again”.
8. System shall save data to database.

**URS-11: Students can edit tasks of a project.**

1. System shall provide UI to display student dashboard.
2. System shall provide UI to display the project detail page.
3. System shall provide UI to display lists and cards of tasks.
4. System shall provide UI which receive tasks name, task description, and task due date.
5. System shall save data to database.

**URS-12: Students can delete tasks of a project.**

1. System shall connect to database.
2. System shall provide UI to display student dashboard.
3. System shall provide UI to display the project detail page.
4. System shall provide UI to display lists and cards of tasks.
5. System shall provide a button to delete a task.
6. System shall provide a delete conformation message.
7. System shall save data to database.

**URS-13: Students can move tasks of a project.**

1. System shall provide UI to display student dashboard.
2. System shall provide UI to display the project detail page.
3. System shall provide UI to display lists and cards of tasks.
4. System shall provide a task card to drag and drop a task.
5. System shall display the task in another card column
6. System shall provide a forbidden mouse-cursor while dragging .
7. System shall provide a conformation message “Do you want to move this task?”.
8. System shall display a successful message “Move a task success”
9. System shall provide an error message if the move destination is not match with constraints “You cannot move this task to xxxxx”.
10. System shall save data to database.

**URS-14: Student can view comments from Mentor and Supervisor.**

1. System shall connect to database.
2. System shall provide UI to display a comment of mentor and supervisor in each task.

**URS-15: Students can reply a comment of Mentor and Supervisor.**

1. System shall provide a reply button for replying comments of mentor and supervisor.
2. System shall provide a submit button for saving data.
3. System shall display a successful message “comment is added.”
4. System shall save data to database.

**URS-16: Student can delete their own comment.**

1. System shall provide a delete comment button.
2. System shall display a confirmation message “Do you want to delete this comment?”
3. System shall provide a cancel button.
4. System shall cancel to delete a comment.
5. System shall display a successful message “Comment is deleted.”.
6. System shall save data to database.

**URS-17: Mentors and Supervisor can view tasks of a student’s project.**

1. System shall connect to database.
2. System shall provide UI to display tasks of students who add registration code of mentor and supervisor.

**URS-18: Mentors and Supervisor can view the statistics of tasks.**

1. System shall connect to database.
2. System shall provide UI to display list of students.
3. System shall provide UI to display specific student’s dash board.
4. System shall provide UI to display statistics of student’s tasks.

**URS-19: Mentor can view comments in student’s report.**

1. System shall connect to database.
2. System shall provide “show report” button to display a student’s weekly report.
3. System shall provide UI to display a student’s weekly report.

**URS-20: Mentor can add comments in student’s report.**

1. System shall provide UI which receive comment of mentor in weekly form.
2. System shall display a confirmation message “Do you want to save this comment?”.
3. System shall display a successful message “Add comment success”.
4. System shall save data to database.

**URS-21: Mentor can edit comments in student’s report.**

1. System shall connect to database.
2. System shall provide UI to edit a comment of mentor in daily form.
3. System shall provide UI to edit a comment of mentor in weekly form.
4. System shall display a confirmation message “Do you want to edit this comment?”.
5. System shall display a successful message “Edit comment success”.
6. System shall save data to database.

**URS-22: Mentor can delete comments in student’s report.**

1. System shall connect to database.
2. System shall provide UI to display a list of mentor’s comments.
3. System shall provide delete button for deleting a comment.
4. System shall display a cancel button.
5. System shall display a confirmation message “Do you want to delete this comment?”.
6. System shall display a successful message “comment is deleted”
7. System shall save data to database.

**URS-23: Supervisor can view comments in student’s report.**

1. System shall connect to database.
2. System shall provide UI to display comment options.
3. System shall display comments of supervisor in daily or weekly form.

**URS-24: Supervisor can add comments in student’s report.**

1. System shall connect to database.
2. System shall provide UI of adding comment options.
3. System shall provide UI to add a comment of supervisor in daily form.
4. System shall provide UI to add a comment of supervisor in weekly form.
5. System shall provide a save and cancel button.
6. System shall cancel a comment.
7. System shall display a confirmation message “Do you want to add this comment?”.
8. System shall display a successful message “add comment success”.
9. System shall save data to database.

**URS-25: Supervisor can edit comments in student’s report.**

1. System shall connect to database.
2. System shall provide UI of editing comment options.
3. System shall provide UI to edit a comment of supervisor in daily form.
4. System shall provide UI to edit a comment of supervisor in weekly form.
5. System shall display a confirmation message “Do you want to edit this comment?”.
6. System shall display a successful message “Edit comment success”.
7. System shall save data to database.

**URS-26: Supervisor can delete comments in student’s report.**

1. System shall connect to database.
2. System shall provide UI to display a list of supervisor’s comments.
3. System shall provide delete button for deleting a comment.
4. System shall display a cancel button.
5. System shall display a confirmation message “Do you want to delete this comment?”.
6. System shall display a successful message “comment is deleted”
7. System shall save data to database.

**URS-27: Users can view weekly report.**

1. System shall connect to database.
2. System shall arrange all tasks based on time-stamp.
3. System shall separate tasks in weekly.
4. System shall merge keywords in a task with a sentence template.
5. System shall provide UI to display student’s weekly report content, comments, Mentor’s signature, student’s signature.

**URS-28: Users can generate a printable weekly report file.**

1. System shall connect to database.
2. System shall convert html weekly report to pdf report.
3. System shall display printable weekly report.
4. System shall provide a download button to download a pdf report.

**URS-29: Student can receive comment notification message on Web application.**

1. System shall detect comments of mentor and supervisor.
2. System shall arrange comments based on time-stamp.
3. System shall provide UI on the right to display comment activities of mentor and supervisor from the earliest to the latest comment.

**URS-30: Mentor and supervisor can receive activities notification message on Web application.**

1. System shall detect task activities of students who under their guidance.
2. System shall arrange task activities based on time-stamp.
3. System shall provide UI on the right to display task activities of mentor and supervisor from the earliest to the latest activity.

**URS-31: Student can receive comment notification message by Email.**

1. System shall detect comments of mentor and supervisor.
2. System shall provide email template of comment notification.
3. System shall merge the content of comment to an email template.
4. System shall send a notification via email based on time-stamp of comment.

**URS-32: Mentor and supervisor can receive activities notification message by Email.**

1. System shall detect task activities of students who under their guidance.
2. System shall provide email template of task activities notification.
3. System shall merge the content of task to an email template.
4. System shall send a notification via email based on time-stamp of task.