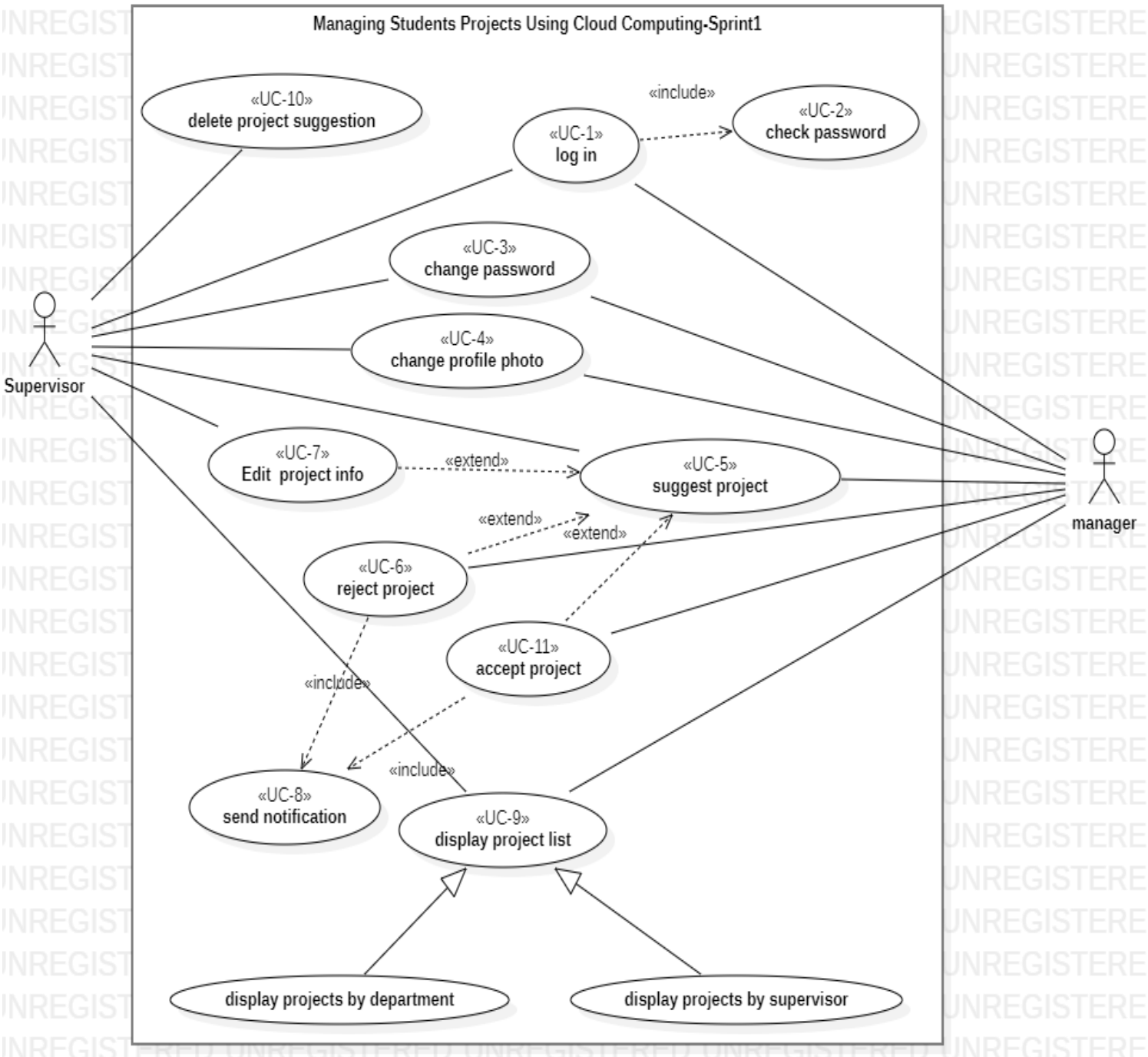
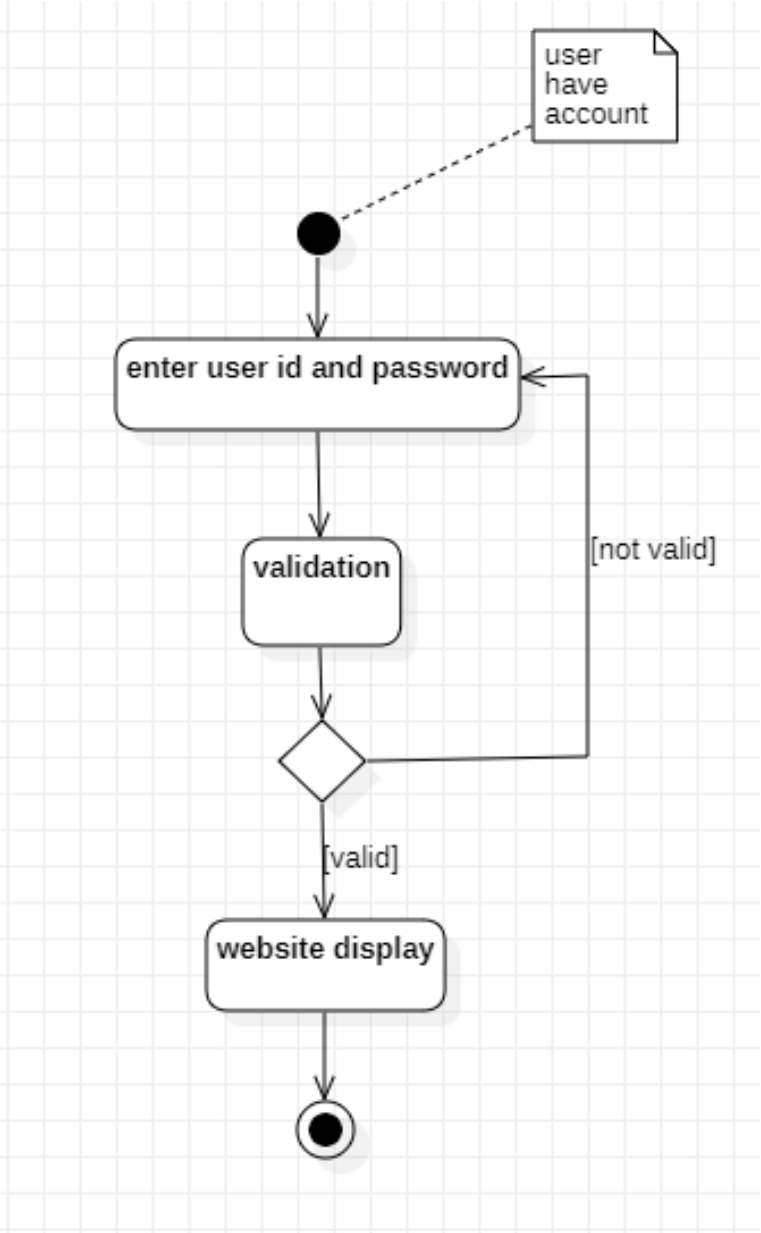
Use case diagram:

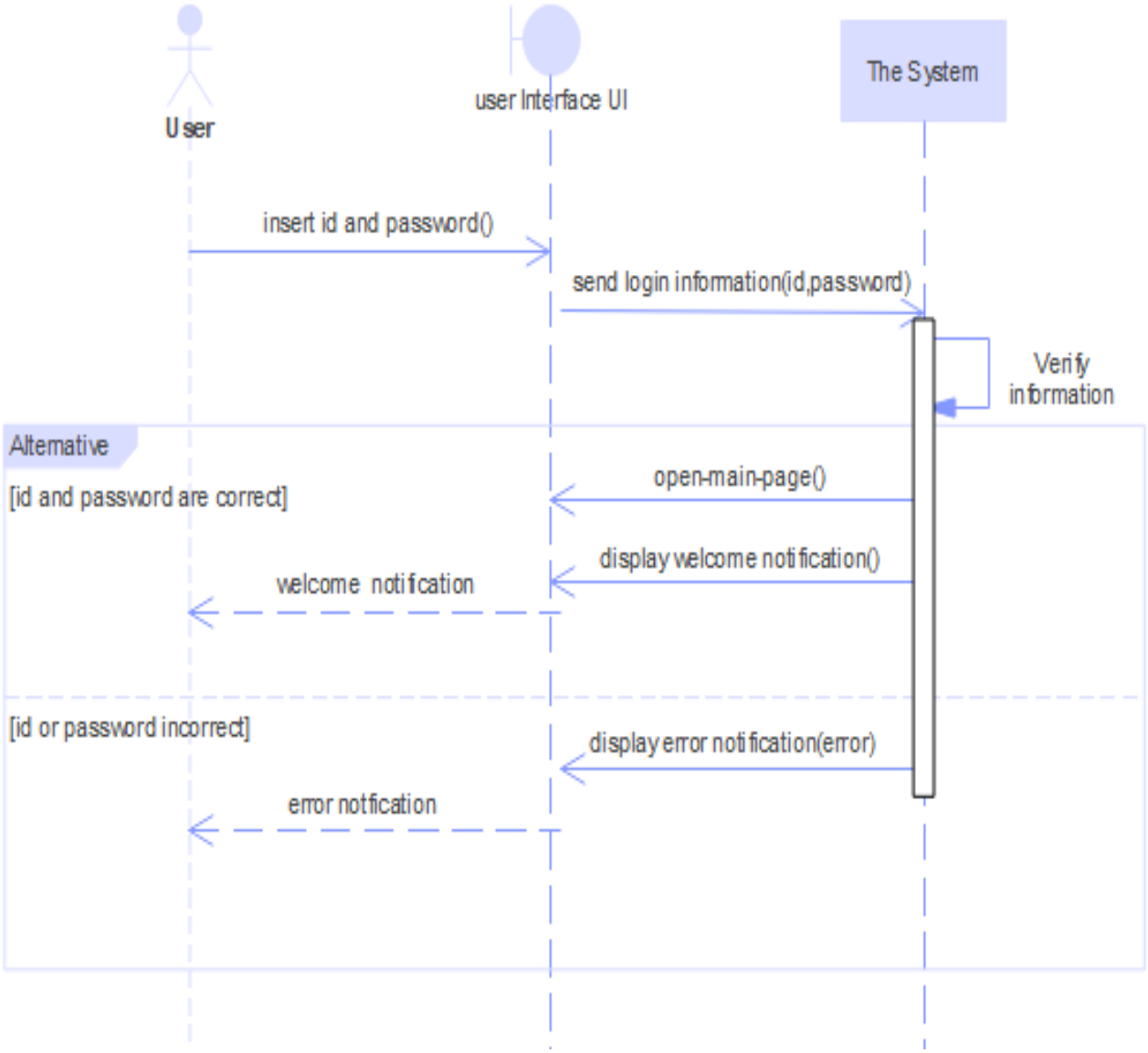


Use case name	Log in
Participating Actors	initiated by all users (manager, supervisor)
Flow of events	1. The User first will enter to the website. 2. The system will show the login form. 3. The user will enter his id and password(form). 4. The system checks the entered id and search for the account. 5. And the system will validate the entered password with the stored password for this user. 6. If the password is correct the web app will open to the main page for the user account.
Alternative flow:	first alternative flow-A1: start in the step 4 in the main flow: 5. if the id is not founded. 6.the system will show error message for id to the user and ask him to reenter it. and it will back to step 5 in the main flow. Second alternative flow-A2: start at the step 5 in the main flow: 6. if the password if not correct. 7. the system will show error message for password and ask the user to reenter it. and the flow will back to step 6 in the main flow.
Entry condition	user have account on the system.
Exit conditions	user enter the system

Activity diagram:

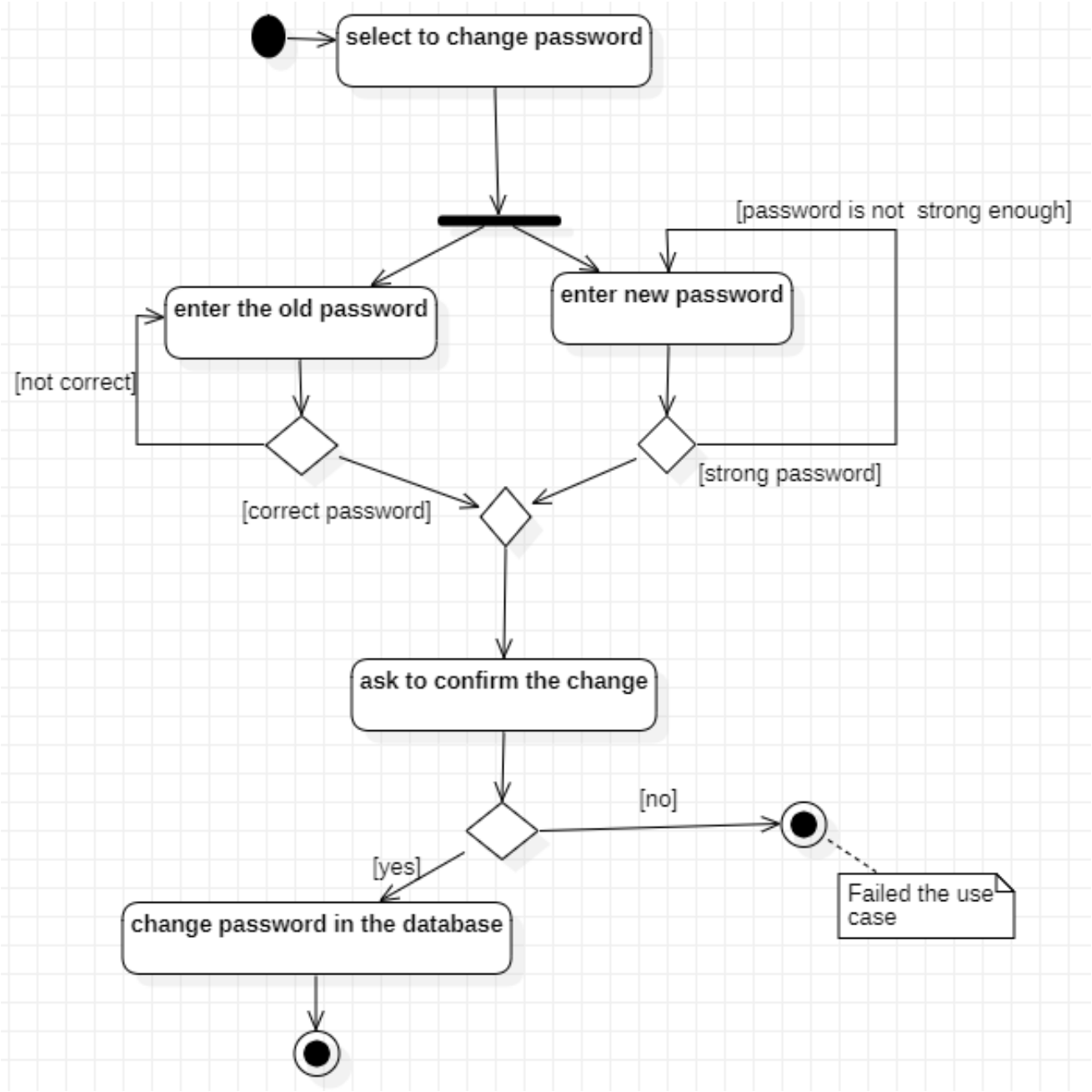


Sequence diagram:

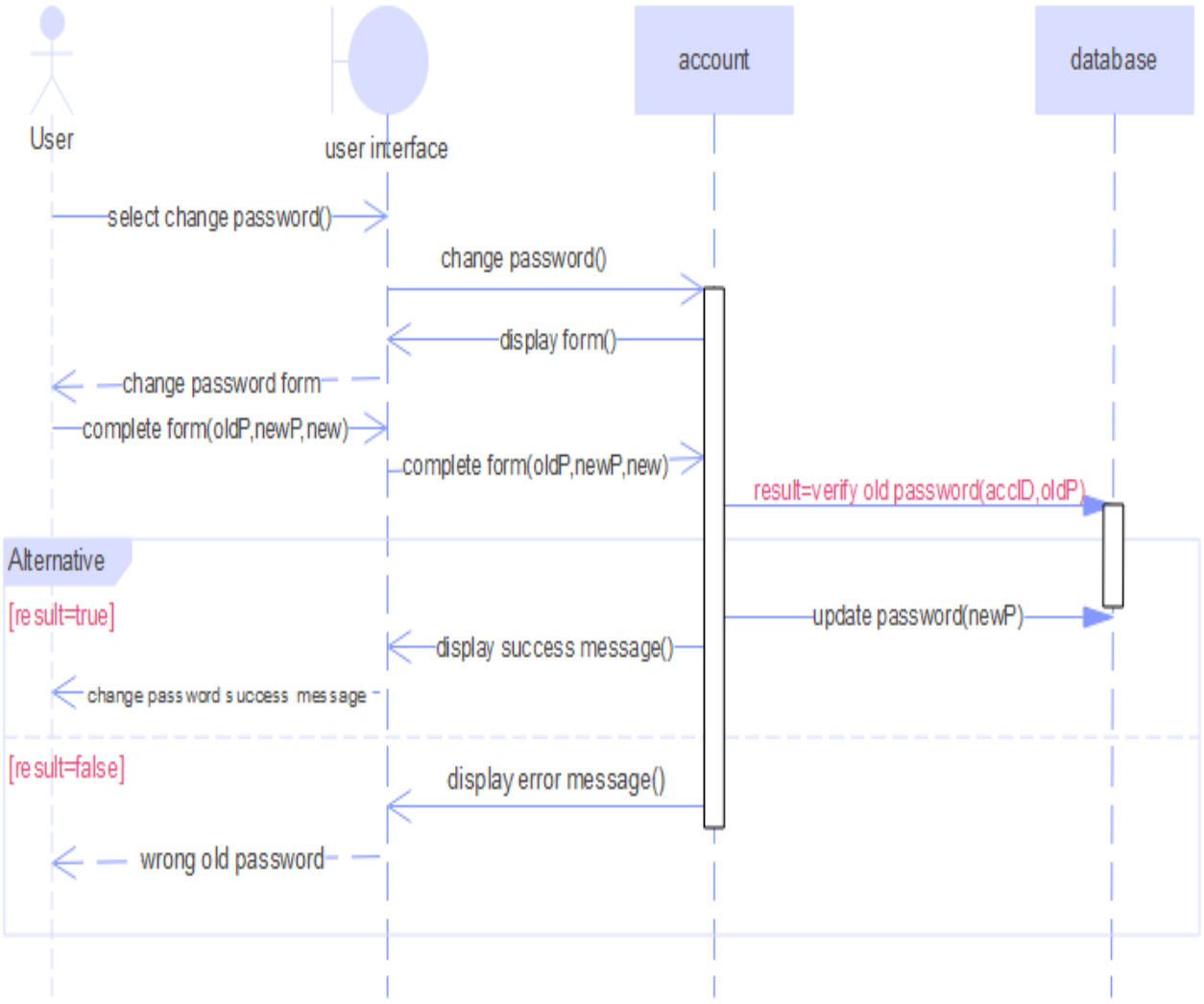


Use case name	change password
Participating Actors	initiated by all users (manger, supervisor)
Flow of events:	1. The actor selects the "Change Password" option from the user interface 2. The system will display form contain old password, new password and confirm new password fields. 3. The actor will fill the required fields. 4. The system validates the entered data: - Verifies that the old password matches the current password for the account. - Verifies that the new password meets the system's password requirements. - Verifies that the new password and the confirmed password match. 5. If the data is valid, the system updates the actor's password with the new password. 6. The system displays a success message indicating that the password has been changed.
Alternative Flows:	- 5 a. Invalid Data: - If any of the entered data is invalid, the system displays appropriate error messages indicating the validation errors. - The actor corrects the invalid data and resubmits the form. - The system revalidates the entered data. - Steps 5-6 are repeated until the data is valid or the actor cancels the operation.
Entry condition	user have account on system
Exit conditions	password changed

Activity diagram:

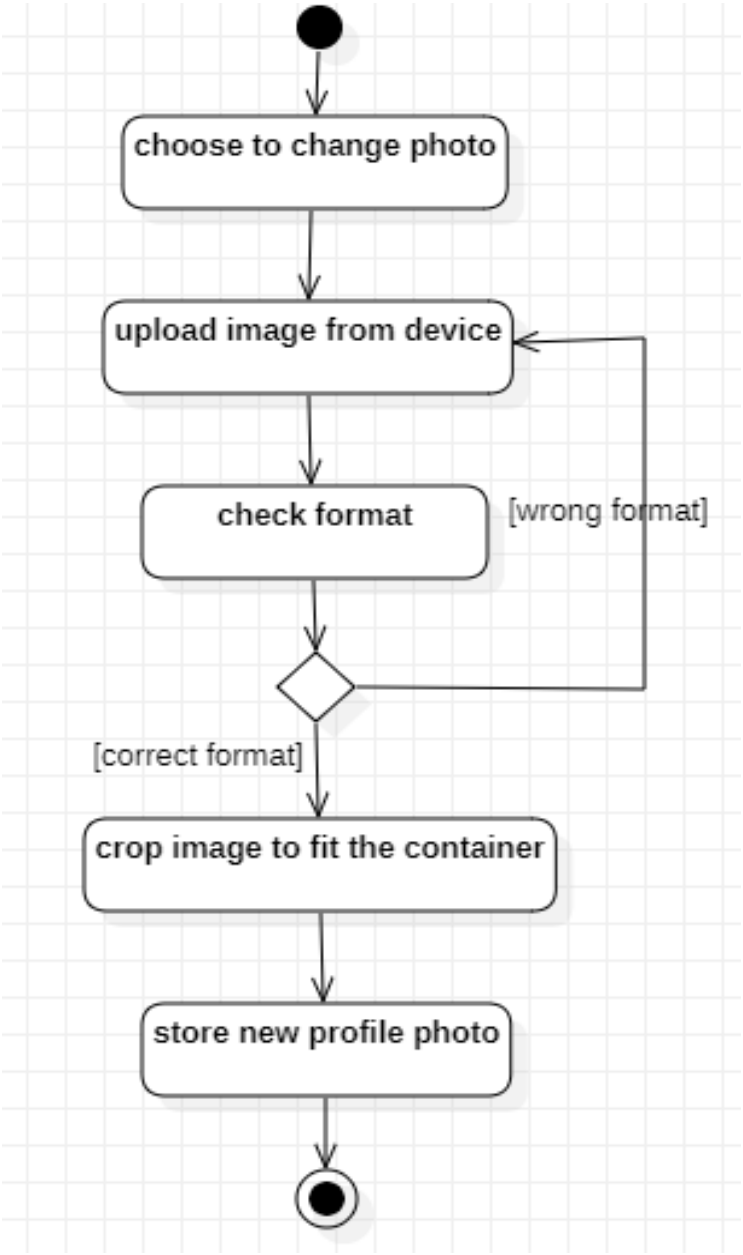


Sequence diagram:

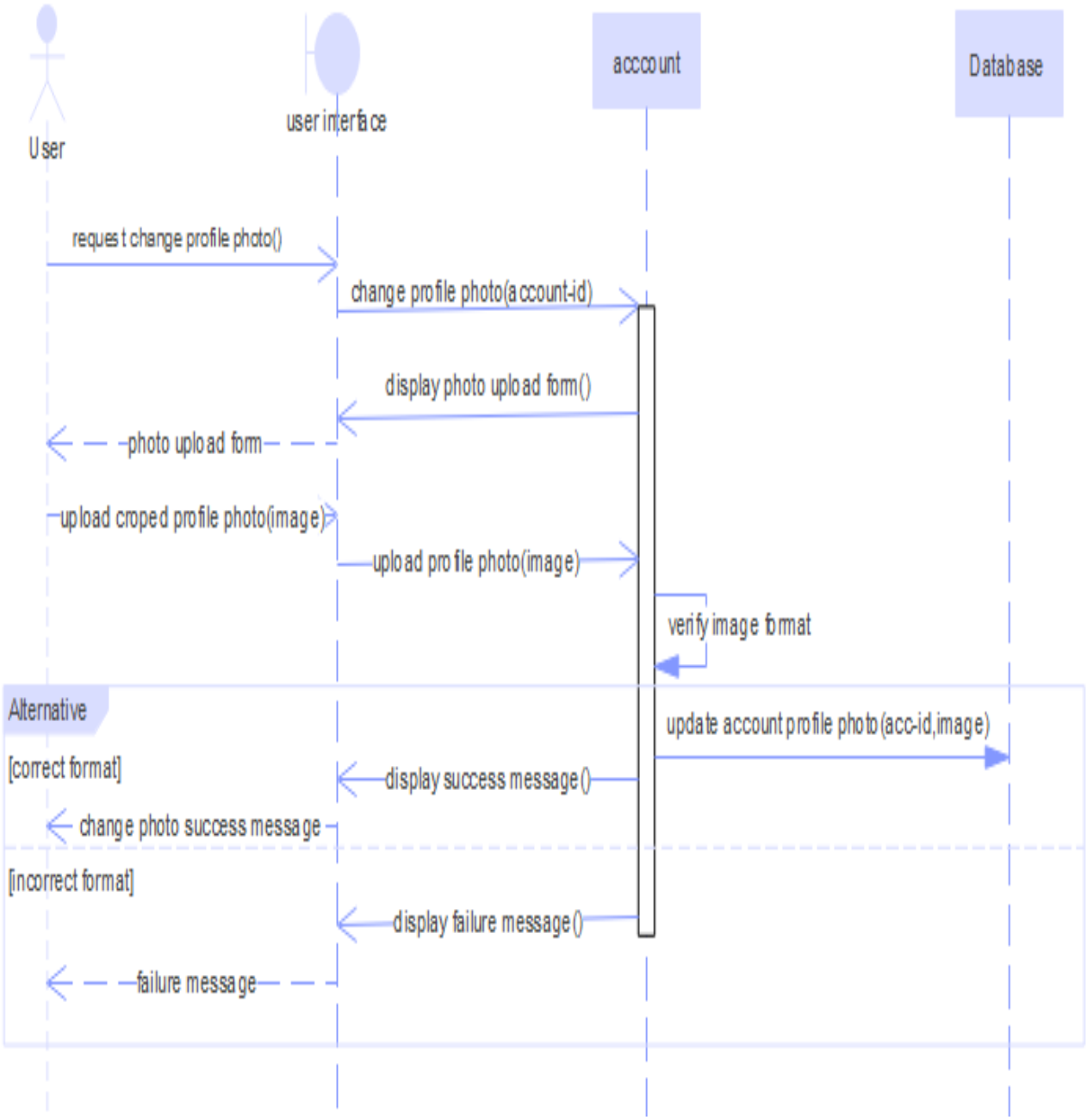


Use case name	change profile photo
Participating Actors	initiated by all users (admin, supervisor)
Flow of events	1. The user will choose to change his profile photo. 2. The system will ask the user to upload a photo from his device with a specific format. 3. The user will upload a photo 4. The system will check the photo format. 5. if it fit the system format, The system will ask the user to crop the photo to fit the profile photo container size. 6. The user will choose the crop area. 7. The system will replace the old photo with the new photo and send successful message. Alternative flow: first alternative flow-A1: start in the step 4: 5. if the format is not match with the system determined format the system will send error message to the user and asked him to upload another image with the correct format. And the flow will back to the step 6 in the main flow.
Entry condition	user has a system account
Exit conditions	profile photo changed.

Activity diagram:



Sequence diagram:



Use case name	Add project
Participating Actors	initiated by supervisor communicated with manager, email sender
Flow of events	1. The supervisor first will choose to add new project. 2. The system will ask the supervisor to complete the form of project that contain (title, description, goal, key steps, department). 3. Supervisor will enter the “title” first. 4. The system will check if the title is existed in the database (duplicate project). 5. if there is no such title in the previse projects. 6. the system will allow the supervisor to complete the informations. 7. The supervisor will complete the required informations. 8. The system will check if all informations is fill. 9. System will send the suggestion project form to the manager with the name of the supervisor who made it. 10. If the supervisor decides to edit the suggestion info in the period before the manger make a decision 11. the system will display the old form. 12. The supervisor will make the changes he wants. 13. The system will resend the new form and replaced it with the old one (extend edit project info). 14. The manager will receive the suggestion project within a list of other suggested projects.

15. If the manager chooses to accept the project.

12. the system will add the project to the project list with its information.

13. the system will send a notification to the supervisor of the project as a response for his project suggestion.

14. if the manager chooses to reject the project

15. the system will delete the project.

16. the system will send a notification to the supervisor of the project as a response for his project suggestion.

Alternative flows: first alternative flow-A1: start in the step 4 in the main flow:

5. if the title is already existed in the previous projects:

6. the system will send a message to the supervisor to explain that this project is already existed and taken by other group or team, and ask him to enter another title. And the flow will back to step 5.

Second alternative flow-A2: start in the step 8 in the main flow:

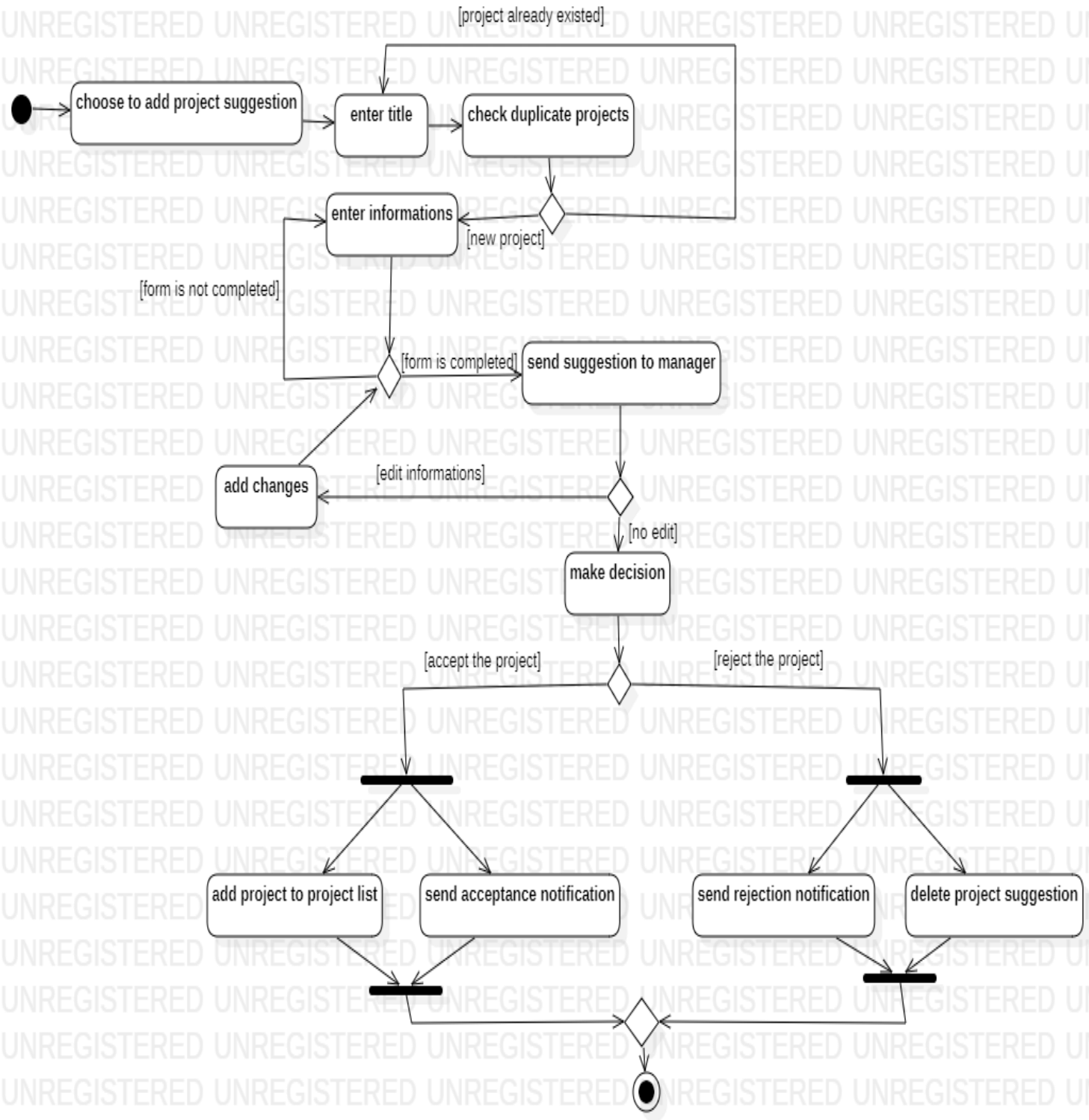
9. if there is messing required information in the form.

10. the system will send a message for the supervisor asked him to complete all fields in the form.

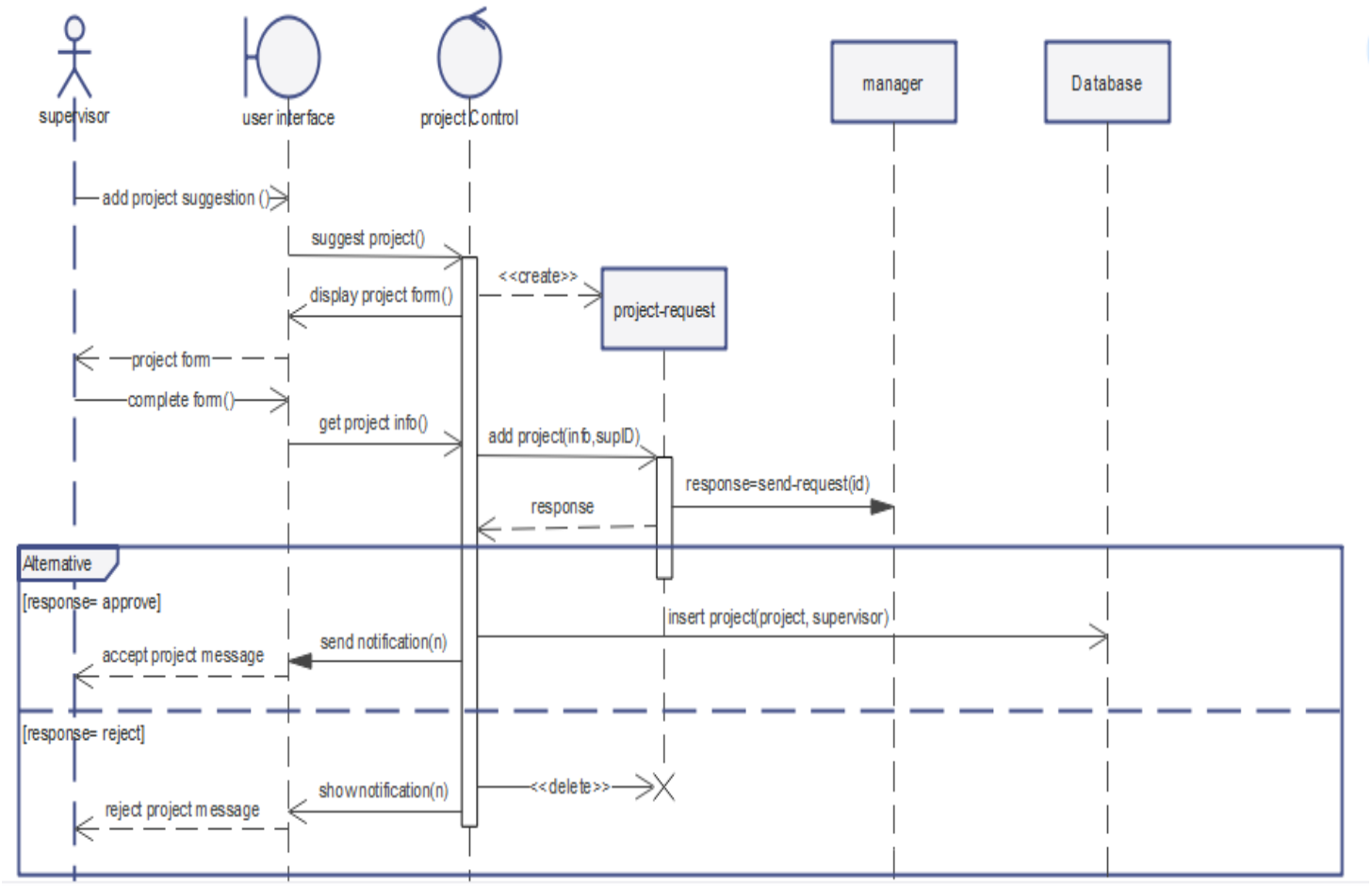
And the system will back to step 8.

Entry condition	the service is available (specific time).
Exit conditions	the project in the projects list.

Activity diagram



Sequence diagram:



Use case name	delete project suggestion
Participating Actors	initiated by supervisor

Flow of events

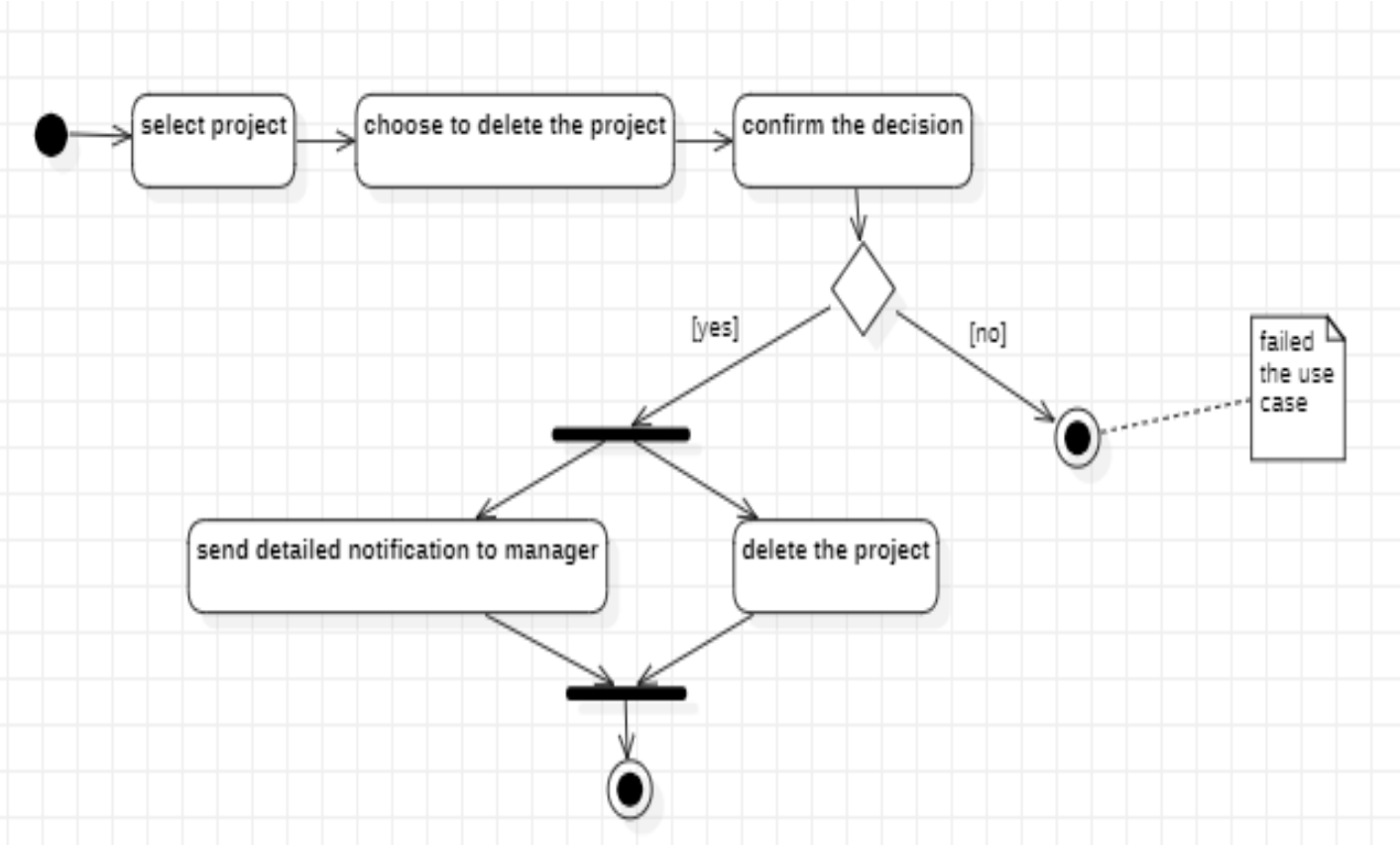
1. The supervisor will select a project from his project list suggestion and chose to delete the project
2. The system will ask the supervisor to confirm his decision
3. The supervisor will confirm his decision.
4. The system will delete the project from the project list and send notification to the manger about the deleted project if he has accepted already.

Exception flow: first exception flow-E1: start at the step 2 in the main flow:

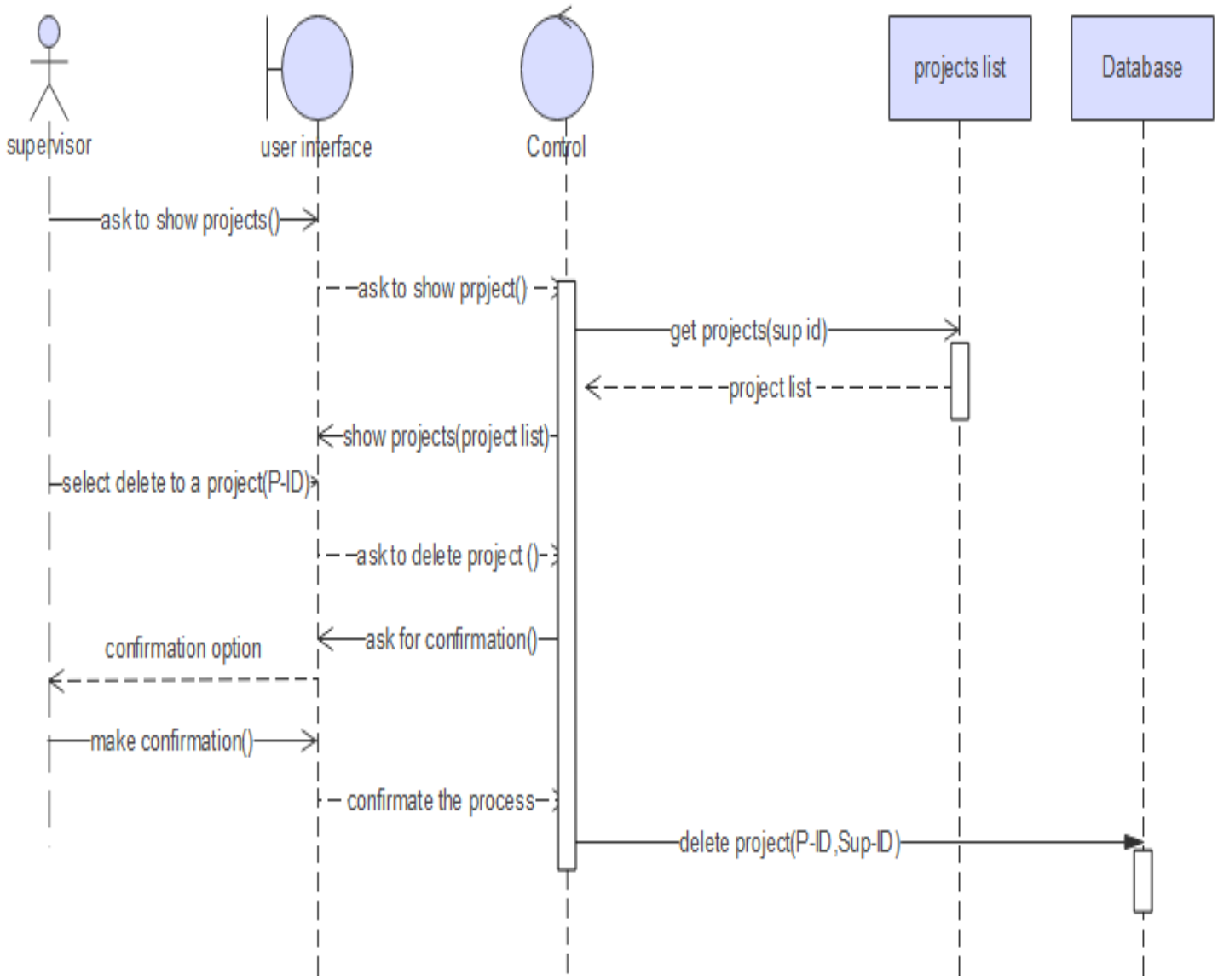
3. if the supervisor chooses to change his decision.
4. the system will close and exit the delete project interface, and the use case will fail.

Entry condition	supervisor have a project in project list and no student has choose it yet, or manager has not accepted yet.
Exit conditions	the project is deleted from the projects list.

Activity diagram:

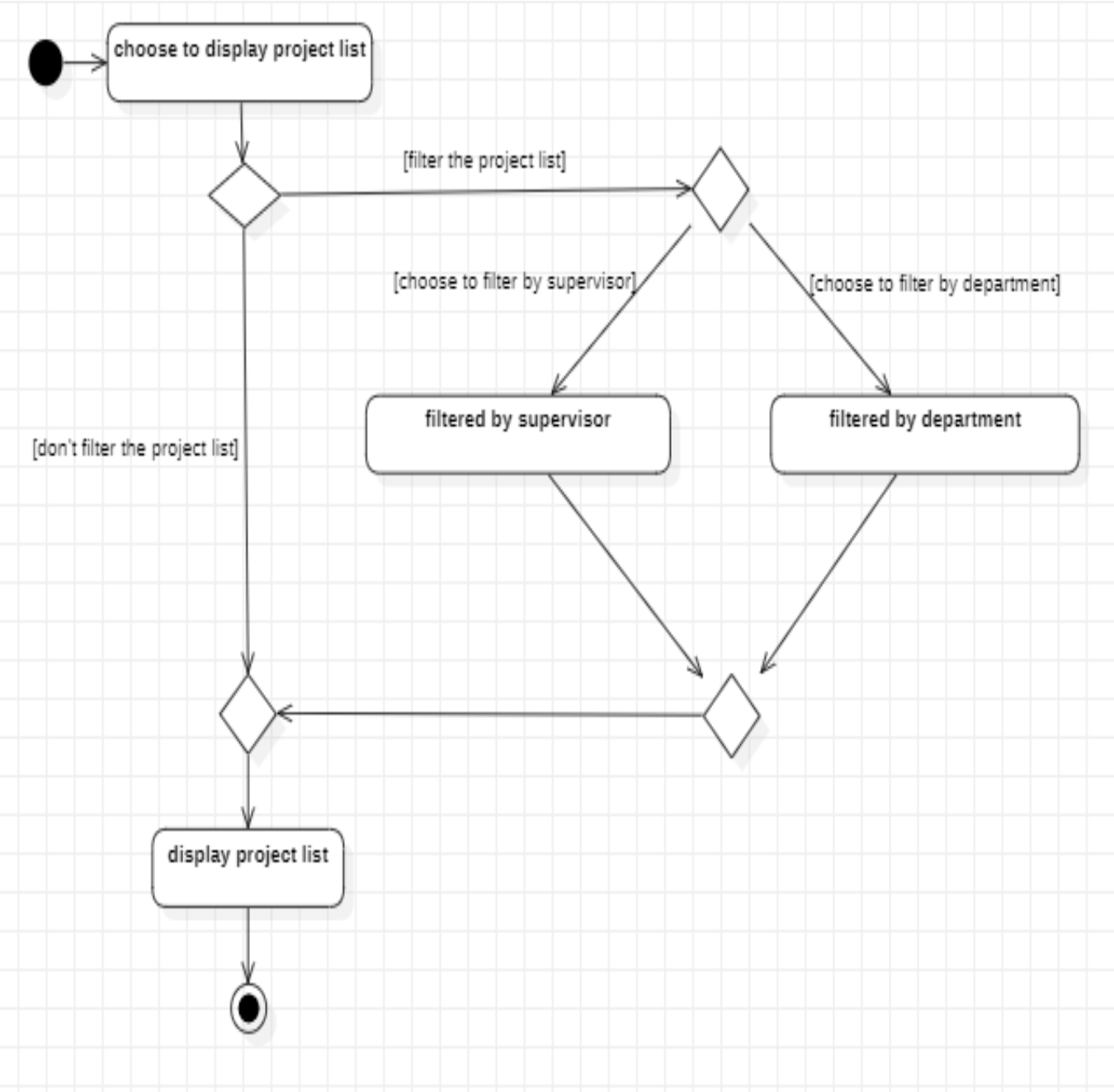


Sequence diagram:



Use case name	display projects list
Participating Actors	initiated by all users(manger, supervisor)
Flow of events	1. The actor select the “Display Projects List” option from the user interface. 2. The system will show two options for choose how to display the projects list : by department or by supervisor. 3. The actor select the filter needed (by department or by supervisor) 4. The system retrieves the projects data based on the selected filter. 5. The system displays the projects list including all project information . Alternative Flows: There are no specific alternative flows for this use case.
Entry condition	user have account on system , projects list exist
Exit conditions	projects list displayed

Activity diagram:



Sequence diagram: