

# Requirement Analysis

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**Group Name:** Group 2

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## Change Log Table

- Sign in is changed with log in. (Sign in was a typo)
- Sign out is changed with log out. (Sign out was a typo)

## 1. Introduction

## 1.1 Goal

The goal of this document is to build a connection between the system description and design model of Training Platform Application. This document forms a basis for the software design by stating the customer's wishes. This document overviews the both functional and non-functional system requirements, associated use cases and their diagrams, user types as well as user scenarios. In addition, prototypes of UI models and diagrams showing flow of data are added.

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## 1.3 Organization of the Document

In section 2, both functional and non-functional requirements are listed. Later on, based on the application's aim and scope user types are extracted. Considering the events that will be handled by the application, user scenarios are created. Using the listed requirements, both use case diagrams and use cases are formed. In section 4, some examples from the user interface model is demonstrated. Finally, in the last part flow diagrams based on the use cases are showed. Entity-relationship model is included and the differences between this model and the flow diagrams are explained. Later on, a

brief explanation about the data considerations are written. Document is concluded with the data flow diagram and its explanation.

## 2. System Requirements

### Functional Requirements List

# FR No	Aa Use Case	Actor	Priority
1	<u>CRUD operations on employees</u>	Manager	HIGH
2	<u>CRUD operations on trainings</u>	Manager	HIGH
3	<u>Create offline training by entering the training name, description, category, target employee group, and selecting the video recordings that are located in local machine of manager</u>	Manager	HIGH
4	<u>Add separate videos to a created trainings. And these videos can have different features such as video title, video description</u>	Manager	HIGH
5	<u>Create online trainings by entering the training name, description, target employee group, class capacity, meeting link and meeting date</u>	Manager	HIGH
6	<u>Notify target employee group when this group assigned to a training</u>	System	HIGH
7	<u>Send notification to participants of a training</u>	Manager	HIGH
8	<u>Generate reports about ongoing and completed trainings</u>	Manager	HIGH
9	<u>Sign-in with email and password</u>	Employee	HIGH
10	<u>Sign-out</u>	Employee	HIGH
11	<u>Update password using forgot-password logic</u>	Employee	HIGH
12	<u>List all trainings assigned to him/her</u>	Employee	HIGH
14	<u>Track his/her progress (when and for how long did he/she watched trainings)</u>	Employee	HIGH

# FR No	Aa Use Case	Actor	Priority
15	<u>Track employee's progress (when and for how long did he/she watched trainings).</u>	Manager	HIGH
16	<u>Notify employees about their assignment's due date periodically.</u>	System	HIGH
17	<u>Give feedback by using created feedback form for each completed training</u>	Employee	MEDIUM
18	<u>Register to system with company registration form and use the system for their own purpose</u>	Company	LOW
19	<u>Choose which employees will be assigned to trainings individually (addition to employee role based assignment system)</u>	Manager	LOW
20	<u>Make requests for relevant trainings</u>	Employee	HIGH
21	<u>Approve or reject training requests</u>	Manager	HIGH
22	<u>Check if user is from the company while signing up</u>	System	MEDIUM
23	<u>Show relevant information about the training to manager in approval screen</u>	System	HIGH
24	<u>Generate class list and export for online trainings</u>	System	MEDIUM
25	<u>Watch videos of instant trainings</u>	Employee	HIGH
26	<u>Create assignments</u>	Manager	HIGH
27	<u>Prevent users from registering when an online training's capacity is full</u>	System	HIGH

### Non-Functional Requirements List

# No	Aa Type	≡ Description
4	<u>Accessibility</u>	The unexpected downtime of a microservice needs to affect other services as little as possible.
9	<u>Performance</u>	The load time of website should not be more than one second.
10	<u>Security</u>	The software must ensure the security of manager/employee personal data.

# No	Aa Type	≡ Description
5	<u>Reliability</u>	Managers can generate reports 99% of time without any failure.
3	<u>Usability</u>	The interface of website should be user-friendly and meet Google's Material Design principles.
7	<u>Security</u>	The server should determine the privileges of different user groups and grant required authority for that user group.
8	<u>Performance</u>	The load time of offline training videos should not be more than two seconds.
1	<u>Data Integrity</u>	The system should be consistent. For instance, the class capacity of training must not be exceeded in case of multiple participation requests at the same time.
2	<u>Reusability</u>	Codebase should not be smelly and should stick to sw principles so that reusable modules can be developed.
6	<u>Data Integrity</u>	The system should be continuously integrated.

## 3. Use Cases

### 3.1 User types

#### ▼ Manager

- Managers are the highest rank people on this application. They have the ability to approve or reject an employee's enrollment request for a training. However, they are only responsible of their own employees. They can request for progress report regarding to their employees. Other than that, they can perform employee processes.

#### ▼ Trainer

- Trainers can create trainings. Other than that, they can perform employee processes.

#### ▼ Employee

- Employees can browse suited trainings, request enrollment to these trainings. They can participate to both online and offline trainings if the requirements are

met.

## 3.2 User scenarios

Manager: Rachel

Employee: Amy

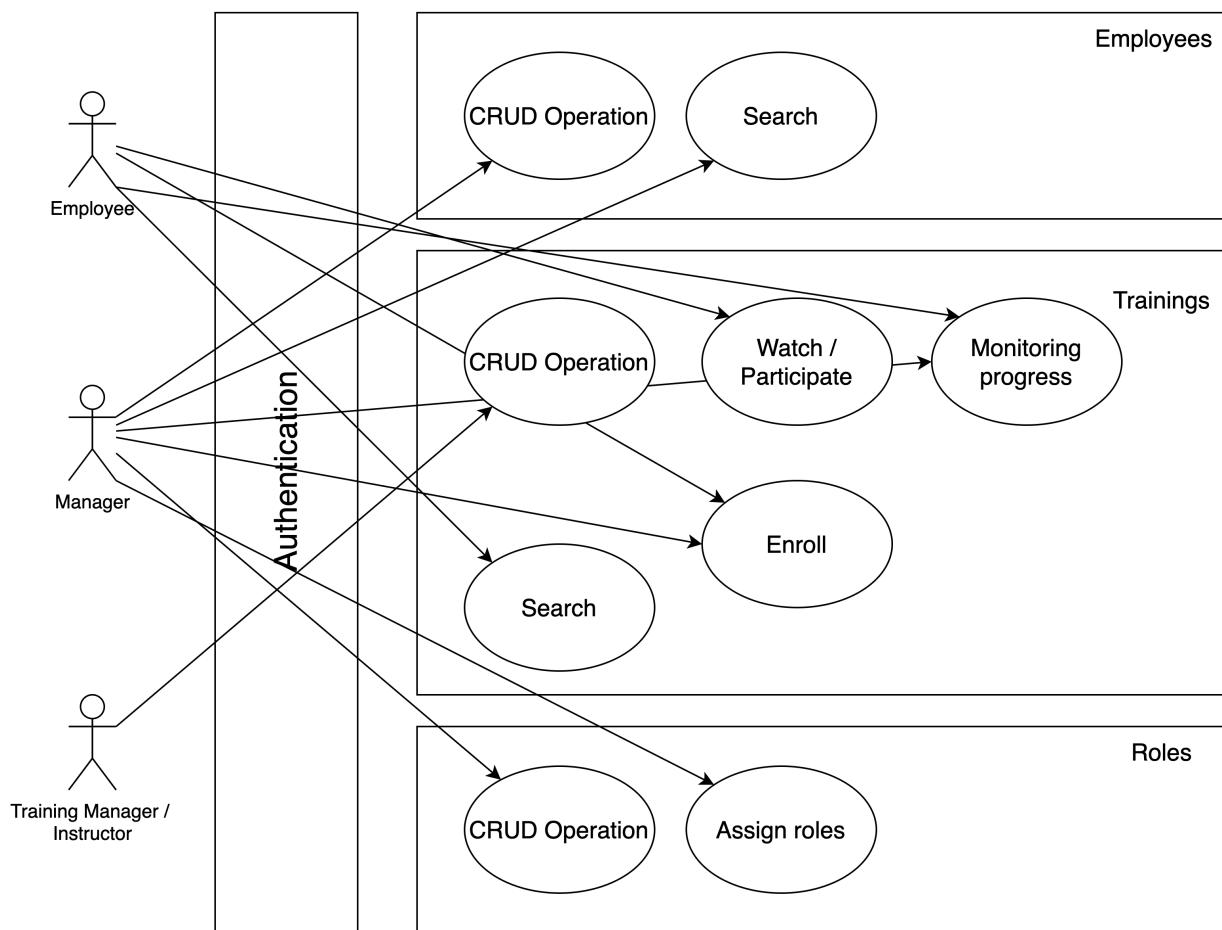
Training Manager / Instructor: Ron

- Amy wants to access her account.
- Rachel wants to access her account.
- Ron wants to access his account.
- Amy wants to list all the new assignments assigned to her by her manager, Rachel.
- Amy wants to see if Rachel has approved her wish to enroll in a specific training.
- Rachel monitors the progress of her employees.
- Amy wants to list all the trainings available for her.
- Amy wants to list all the trainings she enrolled before and then select among them to continue watching a lesson from an offline training.
- Amy wants to enroll a specific training and asks for Rachel's approval.
- Amy wants to access the Zoom link for a specific online training she enrolled before.
- Amy browses online trainings by their categories. She sees that she is suitable for that training and then checks the quota. Since there is still room left, she enrolls.
- Amy completes a training and now she wants to give feedback to the trainer.
- Ron creates a new offline training which can consist of different number of lessons. He sets the target employee group, uploads the videos from his local machine.
- Ron creates a new online training. He sets the capacity and creates Zoom links.
- Ron exports the participants' list for his training.
- Rachel signs out.
- Amy signs out.
- Ron signs out.

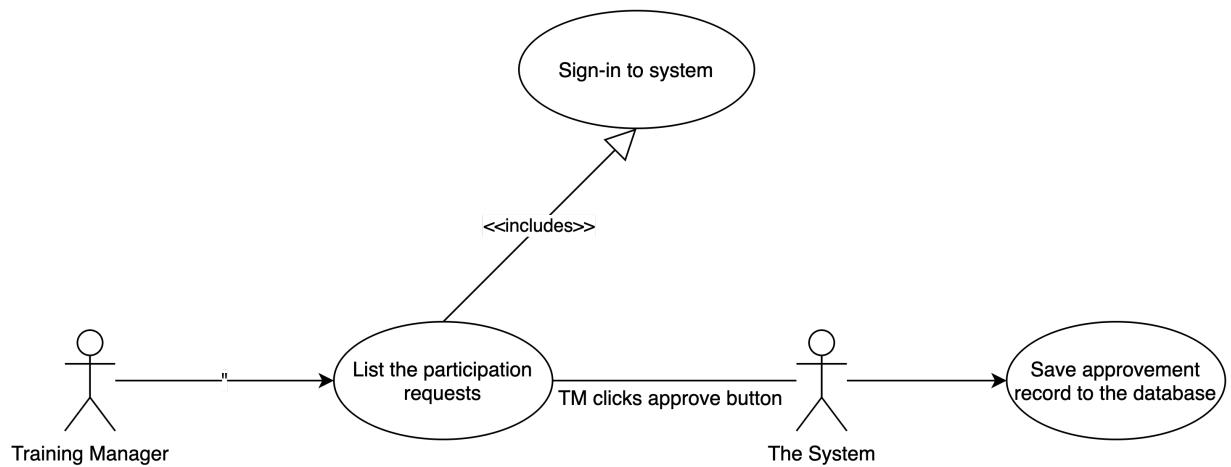
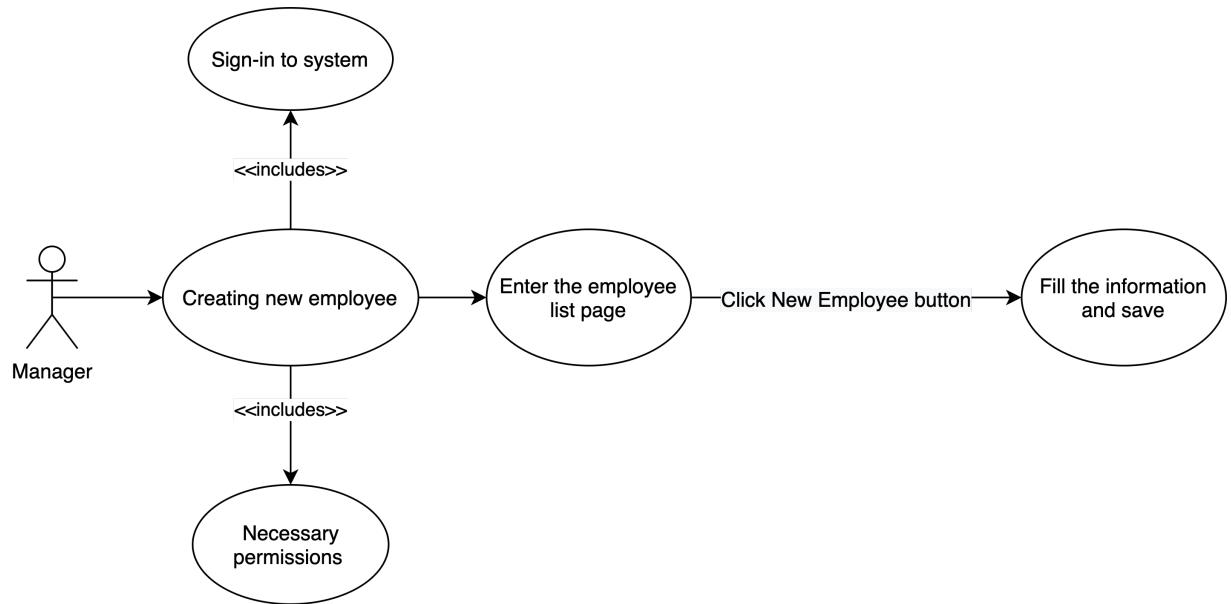
- Rachel forgets her password and resets it.
- Amy forgets her password and resets it.
- Ron forgets her password and resets it.
- Amy is notified when her manager assigns a new training for her.
- Amy is notified when deadlines for her enrolled trainings are approaching.

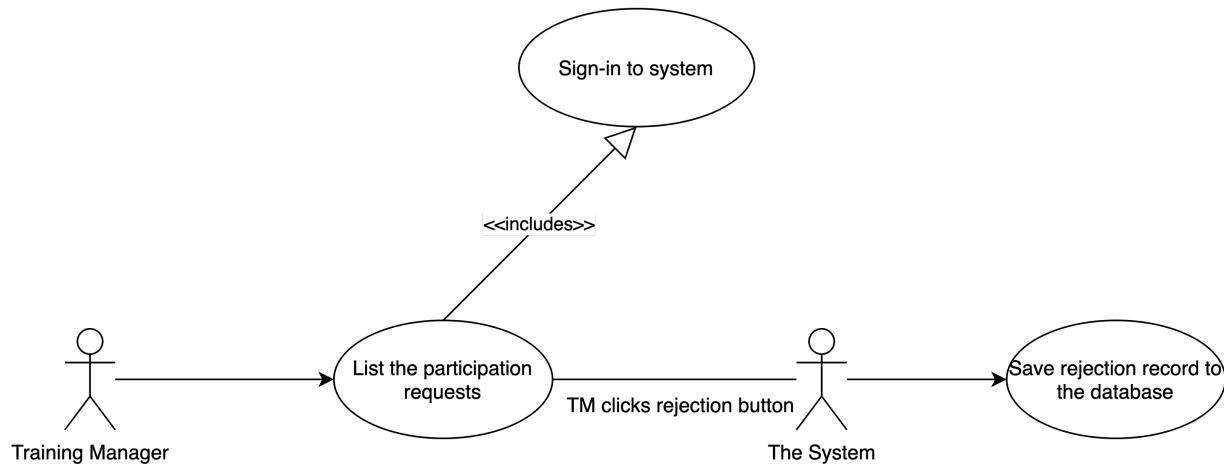
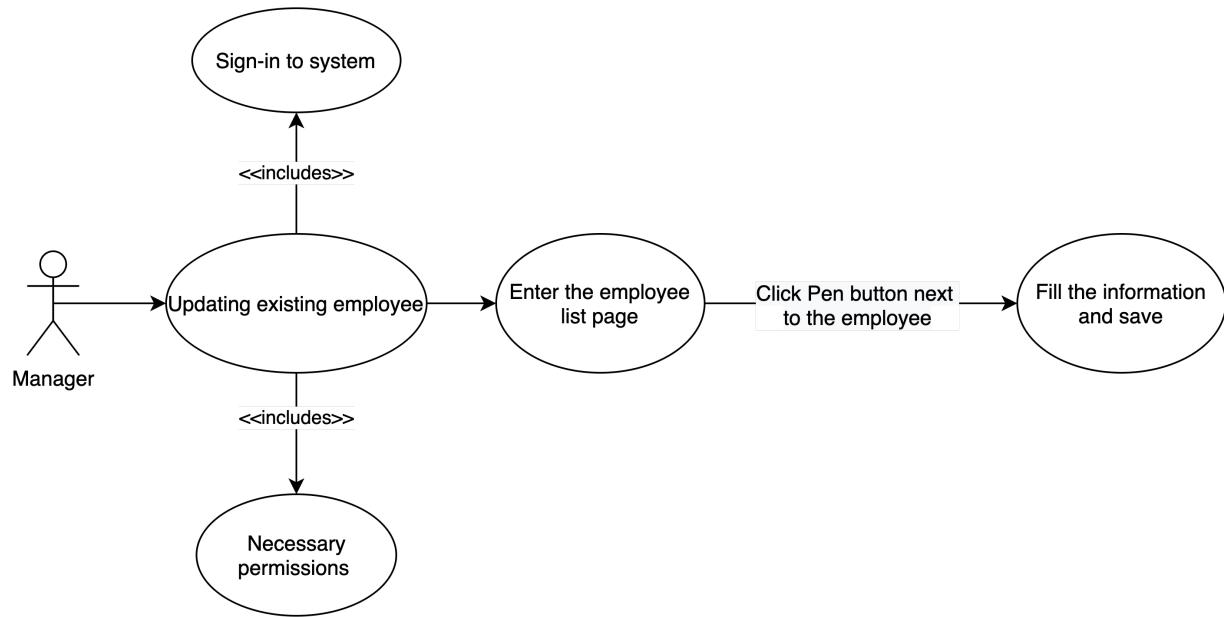
### 3.3 Use case diagram

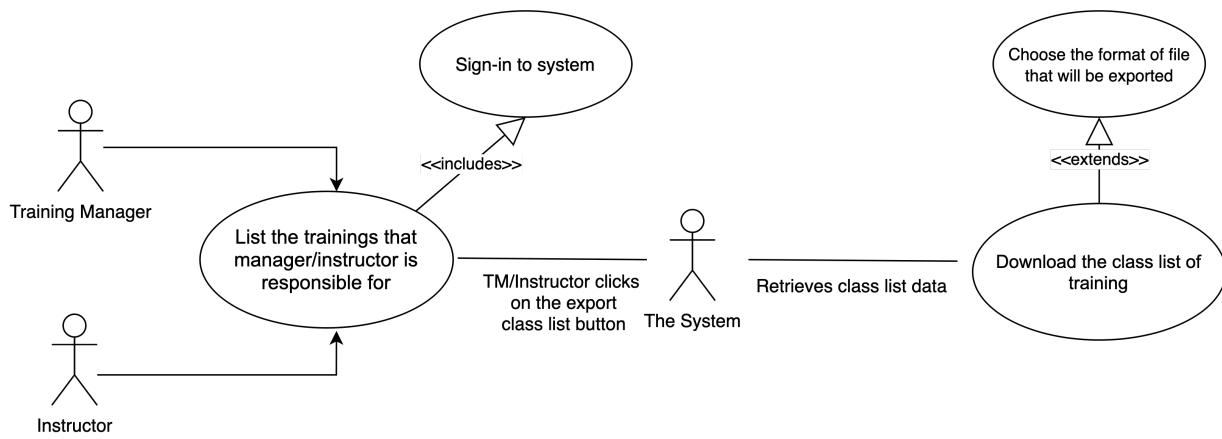
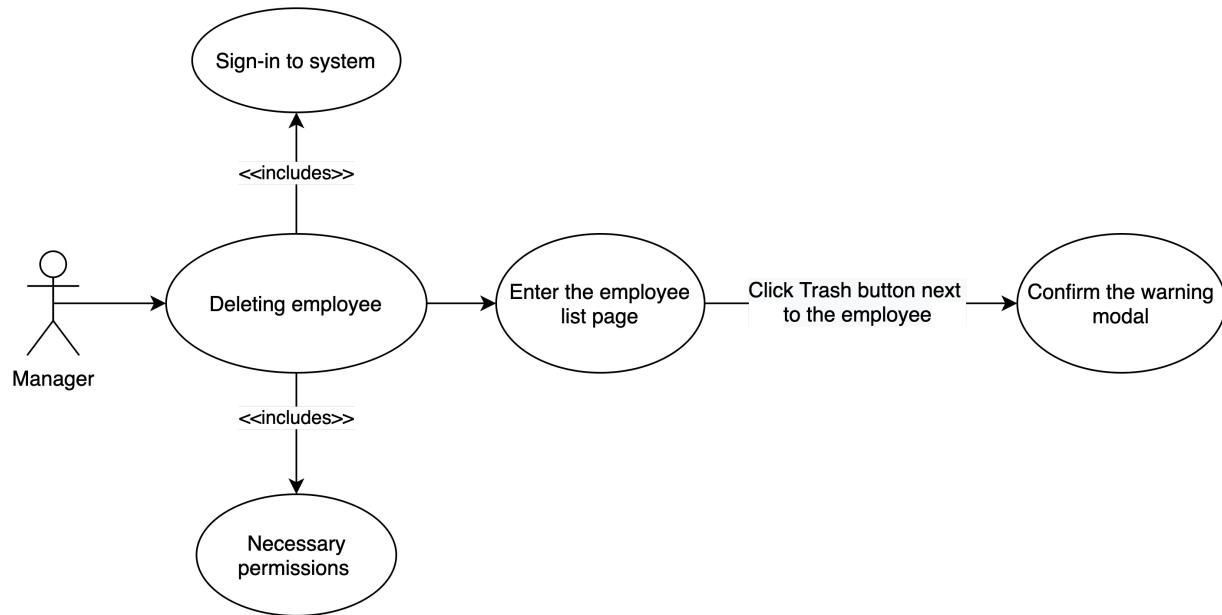
#### Whole System Use Case Diagram

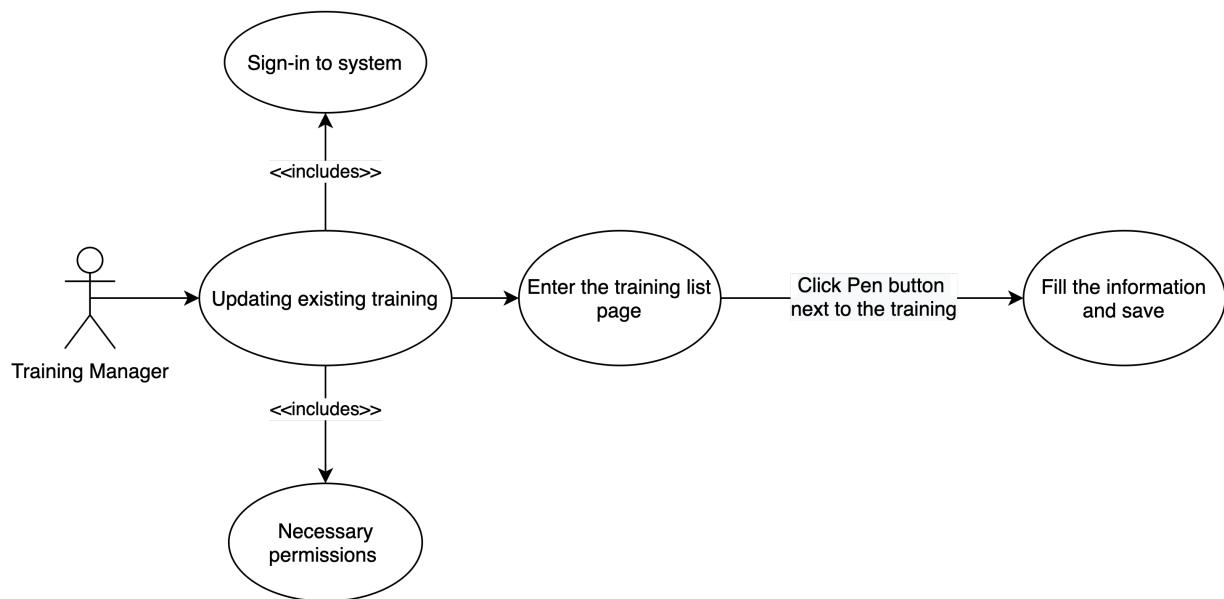
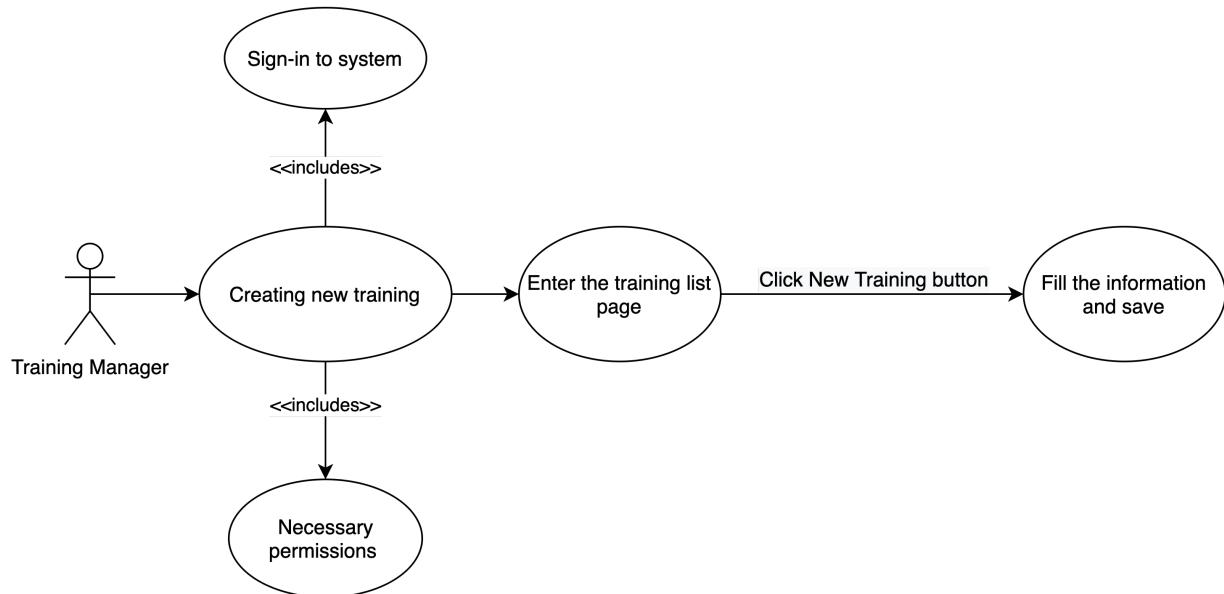


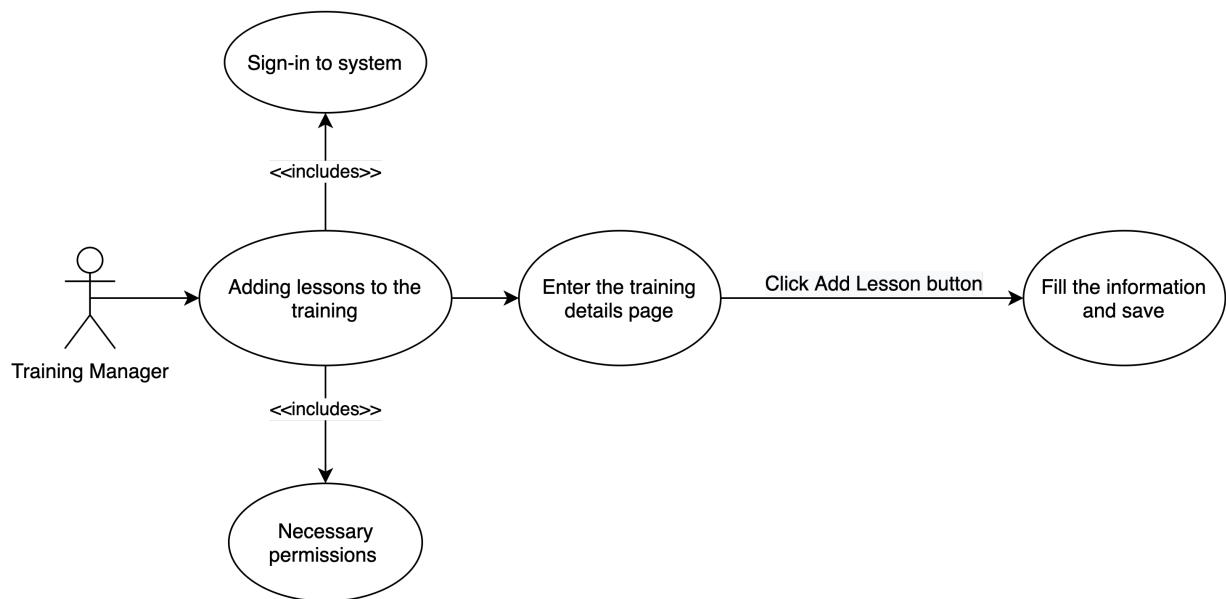
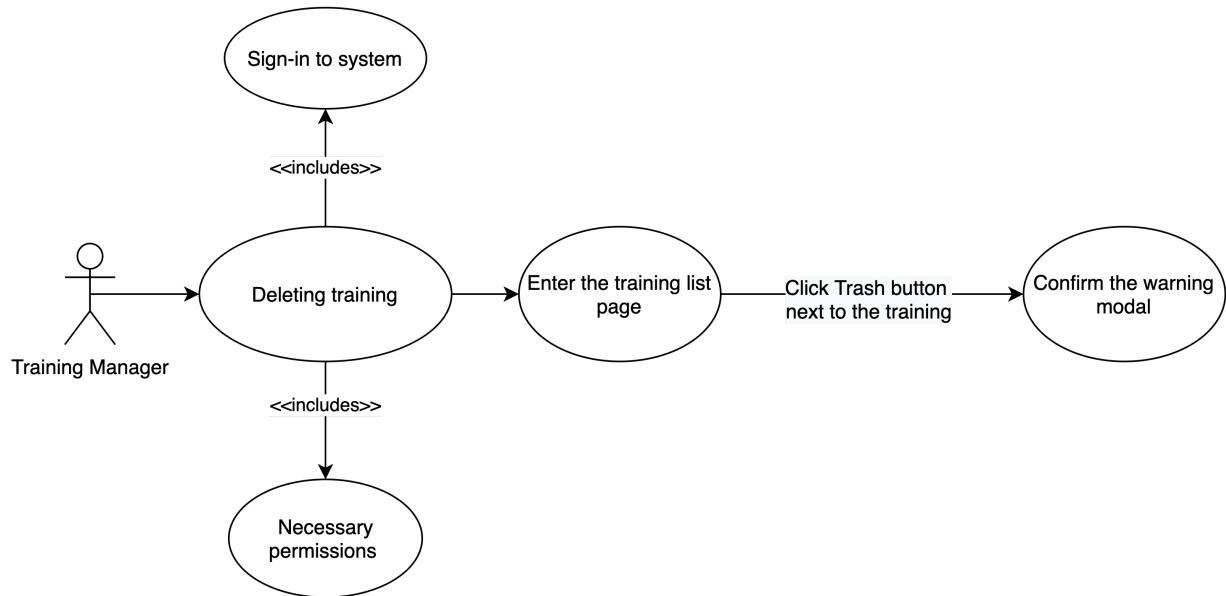
#### Software Functionality Use Case Diagrams

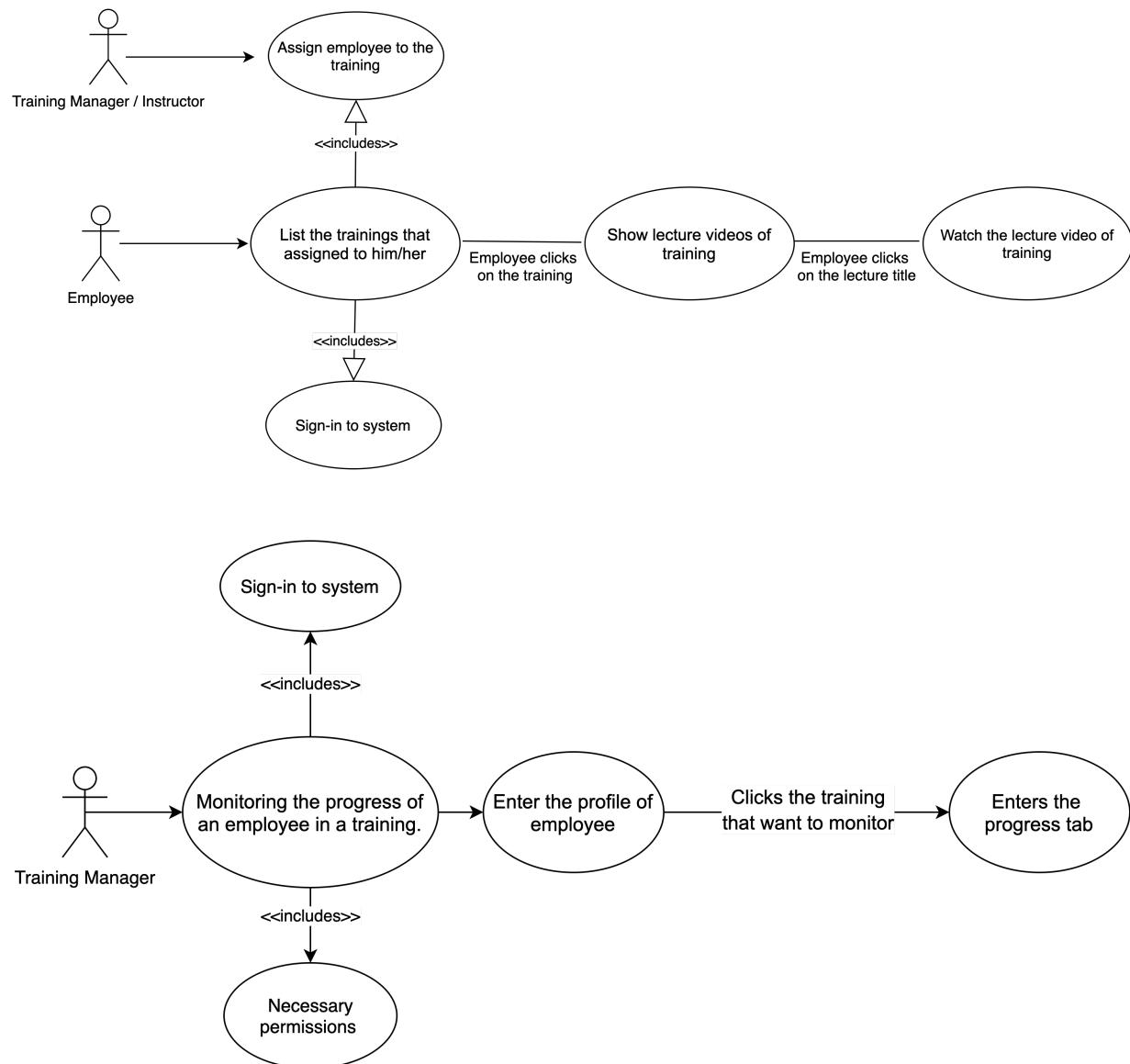


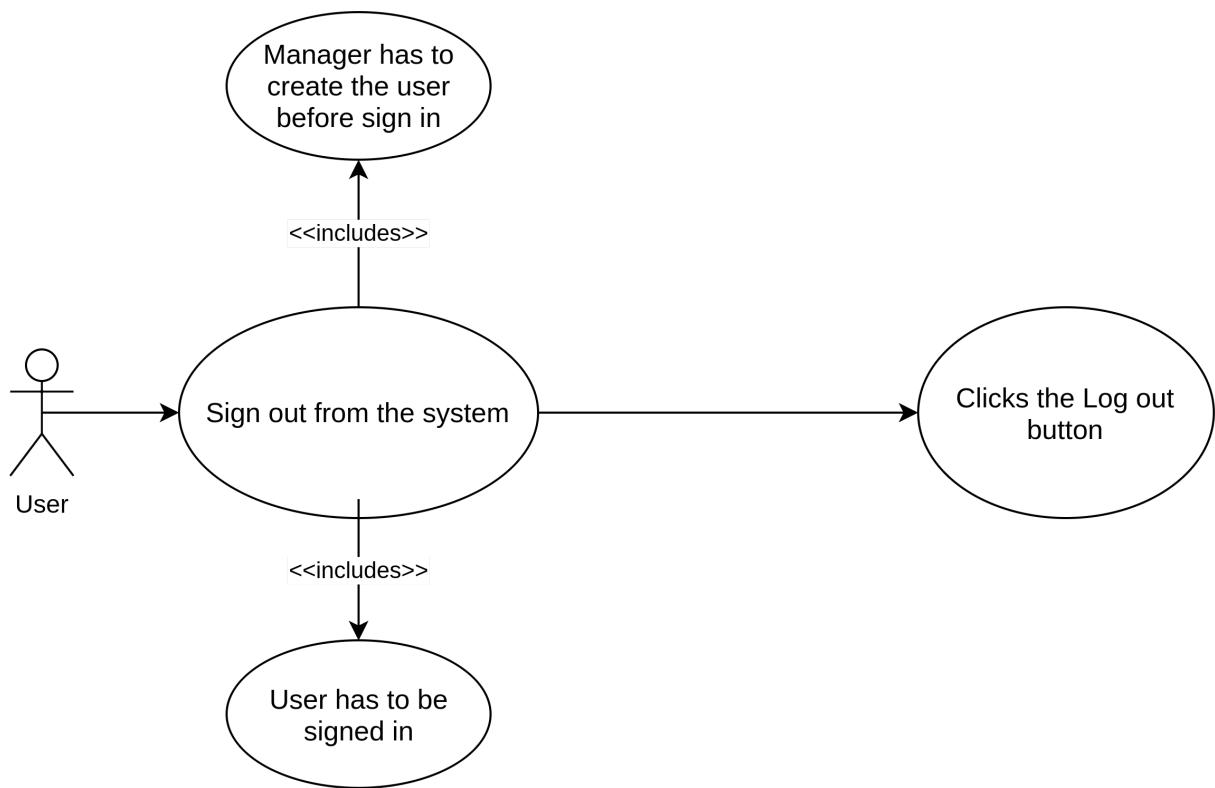
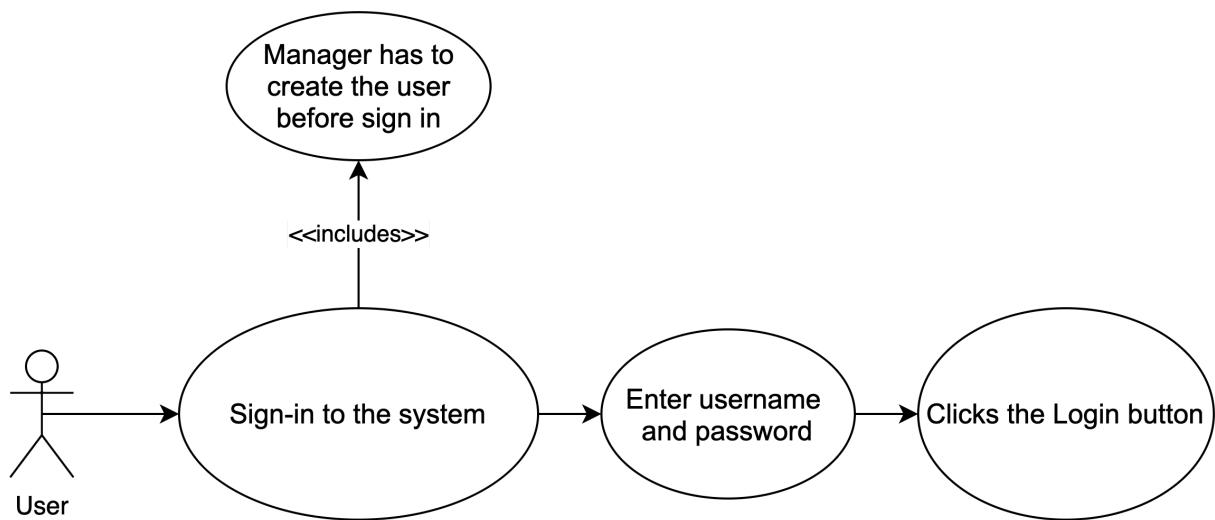


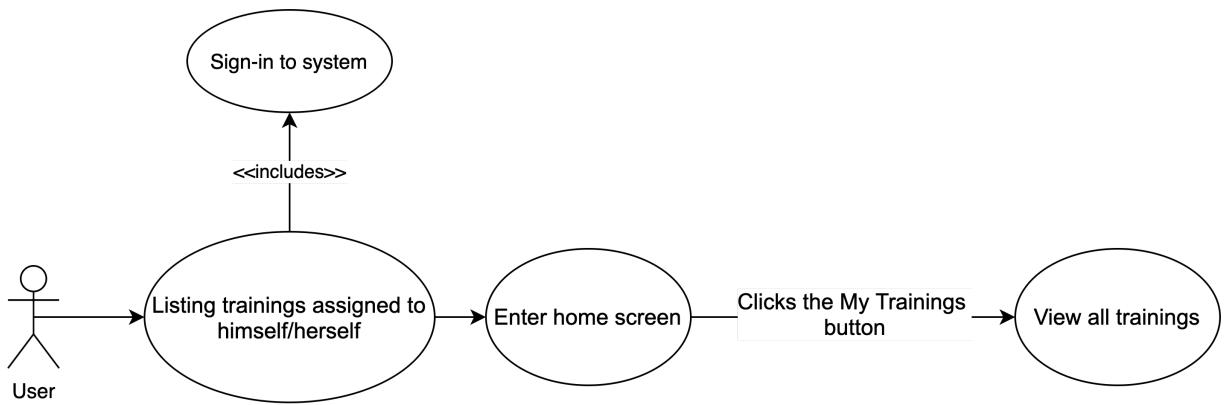
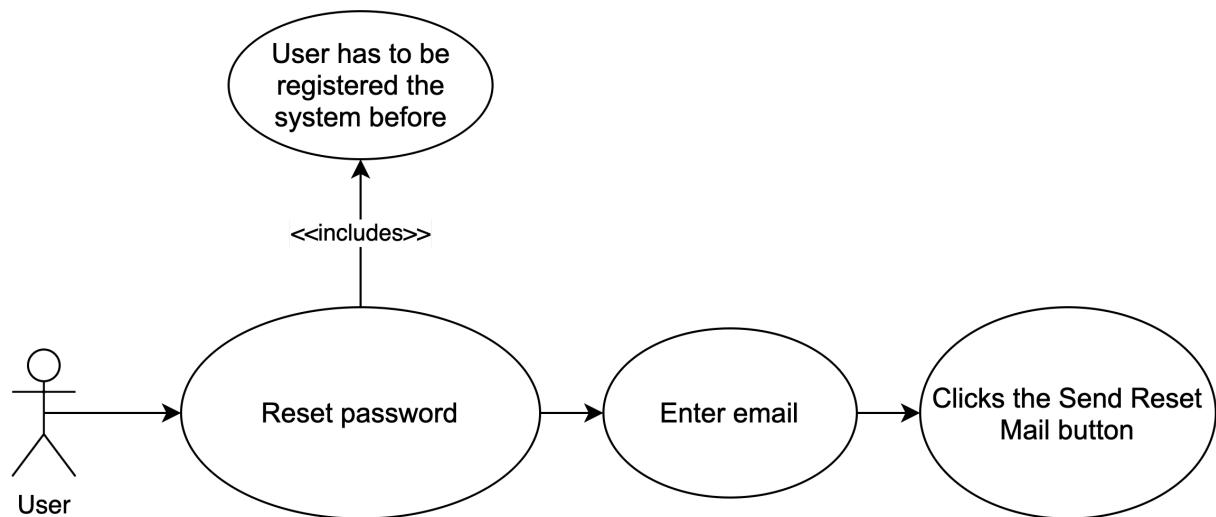
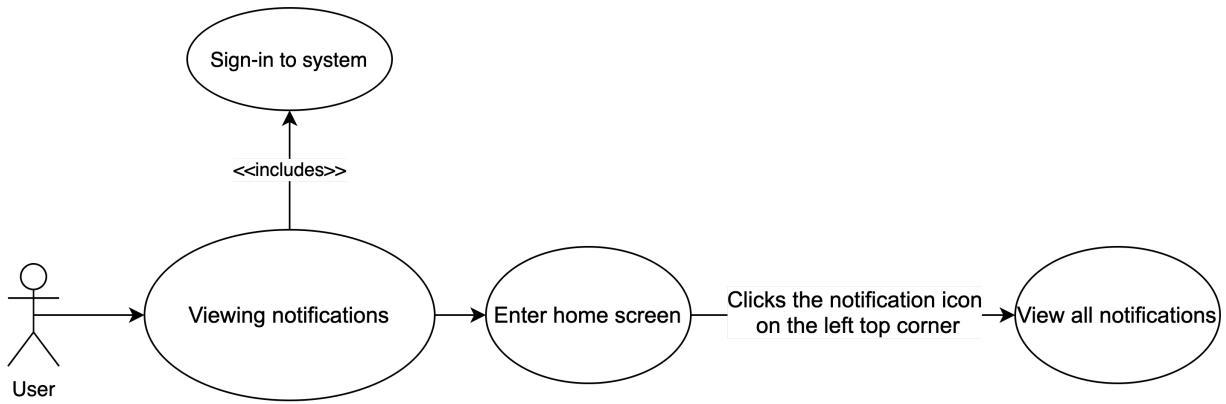


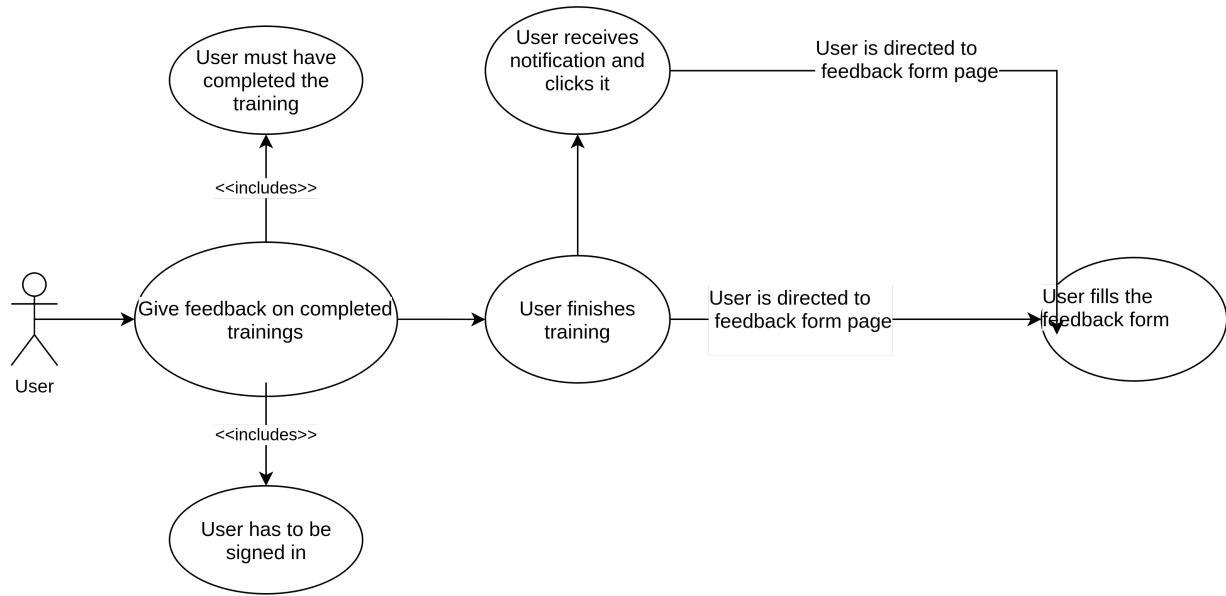












## 3.4 Use cases

<u>Aa Use Case Name</u>	≡ Create a new employee on the system.
<u>Participating Actors</u>	Manager
<u>Alternative Flow</u>	Step 4: Manager clicks the Cancel button. Step 5: Clicks the OK button on the modal that warns that your changes will be deleted.
<u>Special Requirements</u>	The manager is responsible for the management of employee management.
<u>Exit Condition</u>	1. Manager confirms the dialog that shows after clicking the approve button. 2. Manager close the confirmation dialog.
<u>Main Flow</u>	1. Manager enters the employee list page. 2. Manager clicks the New Employee button. 3. Manager fills the required informations about employee. 4. Manager click Save button and sends informations to the user microservice.
<u>Entry Condition</u>	1. Manager has to signed-in to system 2. Manager has to have necessary permissions to CRUD operations on employees.

<u>Aa Use Case Name</u>	≡ Update the existing employee on the system.
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Aa Use Case Name	≡ Update the existing employee on the system.
<u>Special Requirements</u>	The manager is responsible for the management of employee management.
<u>Main Flow</u>	1. Manager enters the employee list page. 2. Manager clicks the Pen button next to the user that want to update. 3. Manager updates the informations of employee. 4. Manager click Save button and sends informations to the user microservice.
<u>Alternative Flow</u>	Step 4: Manager clicks the Cancel button. Step 5: Clicks the OK button on the modal that warns that your changes will be deleted.
<u>Participating Actors</u>	Manager
<u>Entry Condition</u>	1. Manager has to signed-in to system 2. Manager has to have necessary permissions to CRUD operations on employees.
<u>Exit Condition</u>	1. Manager confirms the dialog that shows after clicking the approve button. 2. Manager close the confirmation dialog.

Aa Use Case Name	≡ Deleting an employee on the system.
<u>Participating Actors</u>	Manager
<u>Entry Condition</u>	1. Manager has to signed-in to system 2. Manager has to have necessary permissions to CRUD operations on employees.
<u>Main Flow</u>	1. Manager enters the employee list page. 2. Manager clicks the Trash button next to the user that want to delete.
<u>Alternative Flow</u>	Step 3: Manager clicks the Cancel button.
<u>Exit Condition</u>	1. Manager confirms the dialog that shows after clicking the delete button. 2. Manager close the confirmation dialog.
<u>Special Requirements</u>	The manager is responsible for the management of employee management.

Aa Use Case Name	≡ Create a new training on the system.
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<u>Aa Use Case Name</u>	≡ Create a new training on the system.
<u>Participating Actors</u>	Training Manager
<u>Entry Condition</u>	1. Training Manager has to signed-in to system 2. Training Manager has to have necessary permissions to CRUD operations on trainings.
<u>Main Flow</u>	1. Manager enters the training list page. 2. Manager clicks the New Training button. 3. Manager fills the required informations about training. 4. Manager click Save button and sends informations to the training microservice.
<u>Alternative Flow</u>	Step 4: Manager clicks the Cancel button .Step 5: Clicks the OK button on the modal that warns that your changes will be deleted.
<u>Exit Condition</u>	1. Manager confirms the dialog that shows after clicking the approve button. 2. Manager close the confirmation dialog.
<u>Special Requirements</u>	The Training Manager is responsible for the management of training management.

<u>Aa Use Case Name</u>	≡ Update the existing training on the system.
<u>Participating Actors</u>	Training Manager
<u>Entry Condition</u>	1. Manager has to signed-in to system 2. Manager has to have necessary permissions to CRUD operations on trainings.
<u>Main Flow</u>	1. Manager enters the training list page. 2. Manager clicks the Pen button next to the training that want to update. 3. Manager updates the informations of training. 4. Manager click Save button and sends information to the training microservice.
<u>Alternative Flow</u>	Step 4: Manager clicks the Cancel button. Step 5: Clicks the OK button on the modal that warns that your changes will be deleted.
<u>Exit Condition</u>	1. Manager confirms the dialog that shows after clicking the approve button. 2. Manager close the confirmation dialog.
<u>Special Requirements</u>	The Training Manager is responsible for the management of training management.

<u>Aa Use Case Name</u>	☰ Deleting an training on the system.
<u>Participating Actors</u>	Training Manager
<u>Entry Condition</u>	1. Manager has to signed-in to system 2. Manager has to have necessary permissions to CRUD operations on trainings.
<u>Main Flow</u>	1. Manager enters the training list page. 2. Manager clicks the Trash button next to the user that want to delete.
<u>Alternative Flow</u>	Step 3: Manager clicks the Cancel button.
<u>Exit Condition</u>	1. Manager confirms the dialog that shows after clicking the delete button. 2. Manager close the confirmation dialog.
<u>Special Requirements</u>	The manager is responsible for the management of training management.

<u>Aa Use Case Name</u>	☰ Adding offline lesson video to the training.
<u>Participating Actors</u>	Training Manager
<u>Entry Condition</u>	1. Manager has to signed-in to system 2. Manager has to have necessary permissions to CRUD operations on trainings.
<u>Main Flow</u>	1. Manager enters the details page of offline training. 2. Manager clicks the Add Lesson button. 3. Manager selects the lesson video from local computer. 4. Manager fills the title and description fields. 5. Manager click Save button and sends informations to the training microservice.
<u>Alternative Flow</u>	Step 4: Manager clicks the Cancel button. Step 5: Clicks the OK button on the modal that warns that your changes will be deleted.
<u>Exit Condition</u>	1. Manager confirms the dialog that shows after clicking the send button. 2. Manager close the confirmation dialog.
<u>Special Requirements</u>	The manager is responsible for the management of training management.

<u>Aa Use Case Name</u>	☰ Adding online lesson video to the training.
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Aa Use Case Name	≡ Adding online lesson video to the training.
<u>Participating Actors</u>	Training Manager
<u>Entry Condition</u>	1. Manager has to signed-in to system 2. Manager has to have necessary permissions to CRUD operations on trainings.
<u>Main Flow</u>	1. Manager enters the details page of online training. 2. Manager clicks the Add Lesson button. 3. Manager enters the lesson Zoom url. 4. Manager fills the title, description, start date fields. 5. Manager click Save button and sends information to the training microservice.
<u>Alternative Flow</u>	Step 4: Manager clicks the Cancel button. Step 5: Clicks the OK button on the modal that warns that your changes will be deleted.
<u>Exit Condition</u>	1. Manager confirms the dialog that shows after clicking the send button. 2. Manager close the confirmation dialog.
<u>Special Requirements</u>	The manager is responsible for the management of training management.

Aa Use Case Name	≡ Monitoring the progress of an employee in a training.
<u>Participating Actors</u>	Manager
<u>Entry Condition</u>	1. Manager has to signed-in to system
<u>Main Flow</u>	1. Manager enters the profile of employee. 2. Manager clicks the training that want to monitor. 3. Manager enters the progress tab.
<u>Alternative Flow</u>	
<u>Exit Condition</u>	1. Return back to the employee list
<u>Special Requirements</u>	The manager is responsible for the monitoring the progress of employees.

Aa Use Case Name	≡ Log in to the system
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<u>Aa Use Case Name</u>	≡ Log in to the system
<u>Participating Actors</u>	User
<u>Entry Condition</u>	1. Manager has to create the user before sign in.
<u>Main Flow</u>	1. User enters the login url. 2. User fills the username and password fields. 3. User clicks login button.
<u>Alternative Flow</u>	
<u>Exit Condition</u>	Close the browser tab
<u>Special Requirements</u>	

<u>Aa Use Case Name</u>	≡ Log out of the system
<u>Participating Actors</u>	User
<u>Entry Condition</u>	1. Manager has to create the user before sign out.
<u>Main Flow</u>	1. User clicks logout button.
<u>Alternative Flow</u>	Session time-out
<u>Exit Condition</u>	
<u>Special Requirements</u>	User has to be signed in.

<u>Aa Use Case Name</u>	≡ Approving the Participation Requests
<u>Participating Actors</u>	Training Manager
<u>Entry Condition</u>	1. Training manager has signed-in to system 2. Training manager has listed the requests on the panel
<u>Main Flow</u>	1. Training manager clicks the approve button. 2. The system shows confirmation dialog to confirm approval. 3. Training manager confirms the dialog. 4. System sends confirmation to training microservice.
<u>Alternative Flow</u>	Step 3: Training manager rejects the confirmation dialog. Step 4: Confirmation cannot be done in case training microservice is down.

Aa Use Case Name	☰ Approving the Participation Requests
<u>Exit Condition</u>	1. Training manager confirms the dialog that shows after clicking the approve button. 2. Training manager close the confirmation dialog.
<u>Special Requirements</u>	The manager is responsible for the management of participation requests.

Aa Use Case Name	☰ Rejecting the Participation Requests
<u>Participating Actors</u>	Training Manager
<u>Entry Condition</u>	1. Training manager has signed-in to system 2. Training manager has listed the requests on the panel
<u>Main Flow</u>	1. Training manager clicks the reject button. 2. System shows confirmation dialog to confirm rejection. 3. Training manager confirms the dialog. 4. System sends confirmation to training microservice.
<u>Alternative Flow</u>	Step 3: Training manager rejects the confirmation dialog. Step 4: Rejection cannot be done in case training microservice is down.
<u>Exit Condition</u>	1. Training manager confirms the dialog that shows after clicking the reject button. 2. Training manager close the confirmation dialog.
<u>Special Requirements</u>	The manager is responsible for the management of participation requests.

Aa Use Case Name	☰ Generating participants list of a training to export it into local machine
<u>Participating Actors</u>	Training ManagerInstructor
<u>Entry Condition</u>	1. Training Manager/Instructor has signed-in to system. 2. Training Manager/Instructor has training that (s)he is responsible for managing.
<u>Main Flow</u>	1. Training Manager/Instructor accesses to the trainings panel. 2. The system shows the trainings that training manager/instructor is responsible for. 3. Training Manager/Instructor clicks on the training for which (s)he wants to export the class list. 4. Training Manager/Instructor clicks on the export class list button and downloads the class list.

Aa Use Case Name	≡ Generating participants list of a training to export it into local machine
<u>Alternative Flow</u>	Step 2: Training Manager/Instructor has no training that (s)he is responsible for. Step 4: Training Manager/Instructor is not able to download class list if internet connection of him/her is interrupted.
<u>Exit Condition</u>	1. Training Manager/Instructor has no training that (s)he is responsible for. 2. Internet connection of training manager/instructor is interrupted.
<u>Special Requirements</u>	The manager/instructor is responsible for management of trainings.

Aa Use Case Name	≡ Watching videos of offline trainings
<u>Participating Actors</u>	Employee
<u>Entry Condition</u>	1. Employee has signed-in to the system.
<u>Main Flow</u>	1. Employee lists the assigned offline trainings on the panel. 2. Employee clicks on the training. 3. Employee clicks on the lecture video and watches the video.
<u>Alternative Flow</u>	Step 2: Employee has no assigned trainings.
<u>Exit Condition</u>	1. Employee completes the offline training lecture. 2. Employee's internet connection is interrupted.
<u>Special Requirements</u>	Employee has access to trainings that assigned to him/her.

Aa Use Case Name	≡ Creating assignments
<u>Participating Actors</u>	Training Manager
<u>Entry Condition</u>	1. Training Manager has signed-in to the system.

Aa Use Case Name	≡ Creating assignments
<u>Main Flow</u>	1. Training Manager clicks the 'Assignments' menu. 2. Training Manager clicks the 'Create New Assignment' menu. 3. Training Manager enters the assignment name, description, due date, target user group and assignment category. 4. Training Manager clicks the 'Create Assignment' button.
<u>Alternative Flow</u>	Step 3: Training Manager forgets to fill all required form inputs to create an assignment. Step 3.1: A form error message is shown to training manager.
<u>Exit Condition</u>	1. Training Manager creates the assignment successfully. 2. Training Manager's internet connection is interrupted.
<u>Special Requirements</u>	Training manager has permission to create assignments.

Aa Use Case Name	≡ Participating to Requested Trainings
<u>Participating Actors</u>	EmployeeTraining Manager
<u>Entry Condition</u>	1. Employee user has signed-in to system. 2. Employee user has listed the available trainings.
<u>Main Flow</u>	1. Employee makes the request to participate training. 2. Manager of this employee approves or rejects the participation request. 3. Employee participates in the training if the manager gives approval.
<u>Alternative Flow</u>	Step 3: Employee does not participate if manager rejects the participation request.
<u>Exit Condition</u>	1. Use case terminates if the quota of training is full. 2. Use case terminates if manager approves or rejects the request.
<u>Special Requirements</u>	The manager is responsible for the management of participation requests.

Aa Use Case Name	≡ Viewing notifications about its assignment's due date periodically
<u>Participating Actors</u>	User

Aa Use Case Name	≡ Viewing notifications about its assignment's due date periodically
<u>Entry Condition</u>	1. User account has to be signed in.
<u>Main Flow</u>	1. User enters home screen. 2. User views notification count on the home screen. 3. User clicks the notification icon. 4. User views notifications about the trainings.
<u>Alternative Flow</u>	
<u>Exit Condition</u>	1. User closes the browser. 2. User clicks another element on the page.
<u>Special Requirements</u>	User has to be registered and signed-in to the system.

Aa Use Case Name	≡ Give feedback by using created feedback form for each completed training
<u>Participating Actors</u>	User
<u>Entry Condition</u>	1. User account has to be signed in.
<u>Main Flow</u>	1. User finishes training. 2. User is directed to feedback form page. 3. User completes the feedback form.
<u>Alternative Flow</u>	1. User receives notification for completing the form. 2. User clicks the notification and gets directed to form page.
<u>Exit Condition</u>	1. User closes the browser. 2. User clicks another element on the page.
<u>Special Requirements</u>	User must have completed the training.
<u>Untitled</u>	

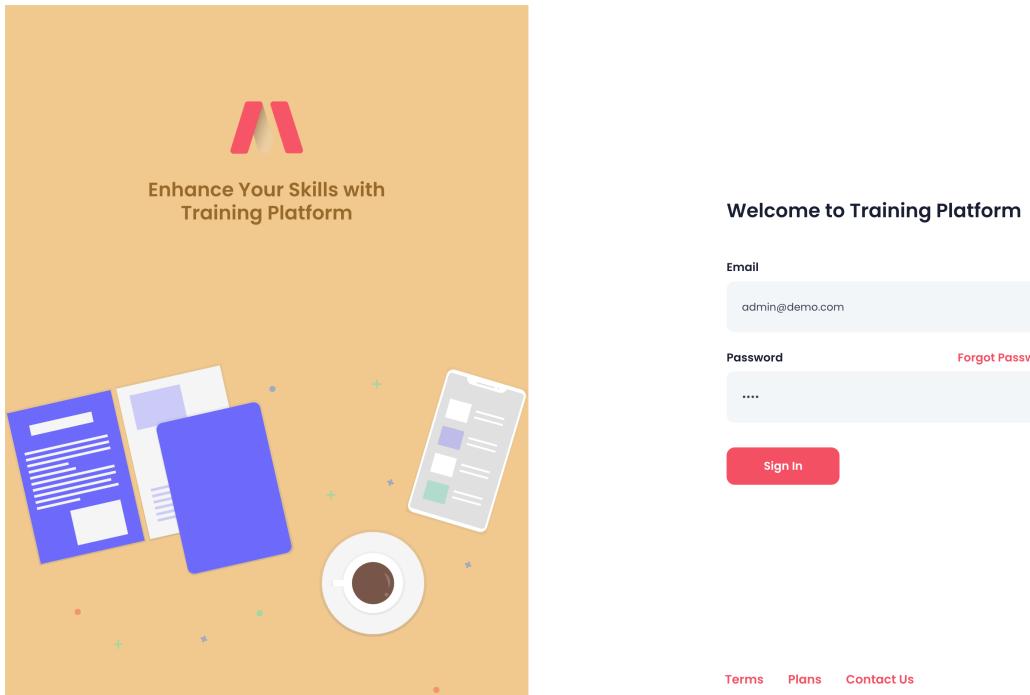
Aa Use Case Name	≡ List all trainings assigned to it
<u>Participating Actors</u>	User
<u>Entry Condition</u>	1. User account has to be signed in.

Aa Use Case Name	≡ List all trainings assigned to it
<u>Main Flow</u>	1. User enters home screen. 2. User clicks 'My Trainings' button. 3. User is directed to the trainings page. 4. User can see the trainings assigned to it.
<u>Alternative Flow</u>	Trainings can be viewed in dashboard.
<u>Exit Condition</u>	1. User closes the browser. 2. User clicks another element on the page.
<u>Special Requirements</u>	To view a training either a training must be assigned or the request must be approved by the manager.

Aa Use Case Name	≡ Update password
<u>Participating Actors</u>	User
<u>Entry Condition</u>	1. User account has to be created at first. 2. System must have user's contact details.
<u>Main Flow</u>	1. User enters sign in page. 2. User clicks 'forgot password' button. 3. User receives mail containing link. 4. User clicks the link that directs to change password page. 5. User changes password.
<u>Alternative Flow</u>	Manager changes contact mail address if necessary.
<u>Exit Condition</u>	User password has changed
<u>Special Requirements</u>	

## 4. User Interface Model

### 1) Login Page



2) User Dashboard: Users can see their trainings and profile summary.

The dashboard has a header with a search bar, a 'Create' button, and user profile icons. Below the header, there's a section titled 'Required Trainings' showing three training modules:

- İş Sağlığı ve Güvenliği-UE/001-20**  
Start Date: 9 NİS 2020 00:00  
End Date: 31 ARA 2021 00:00  
[Start](#)
- YAS 117 Bilgi Güvenliği HTML 2021-UE/001-21**  
Start Date: 24 ŞUB 2021 00:00  
End Date: 31 ARA 2021 00:00  
[Continue](#)
- Etik Kurallar ve Çalışma İlkeleri 2020-UE/001-20**  
Start Date: 29 EYL 2020 00:00  
End Date: 31 ARA 2021 00:00  
[Continue](#)

To the right, there's a profile summary for 'James Jones' (Application Developer, Active), featuring a photo and a red notification badge with the number '3'.

### 3) Training Details: Users can see the content of training and their progresses.

The screenshot shows a user interface for tracking training progress. At the top, there's a navigation bar with a search bar and various icons. Below it, the 'Training Info' section displays a colorful circular background image, the title 'Yapı Kredi Mobil Uygulaması iOS-Android Aktarımı-UE/001-21', and the dates 'Start Date: 16 EYL 2021 00:00' and 'End Date: 31 ARA 2021 00:00'. To the right is a large circular progress bar indicating '74%' completion. The 'Lesson List' section below shows ten lessons, each with a title, duration, status, and a 'Start' or 'Re-Watch' button. The lessons are:

Lesson	Title	Duration	Status	Action
1	Yapikredi Mobil Uygulaması iOS/Android Aktarım-Giriş	20 min	finished	Re-Watch
2	iOS Architecture, Custom Components	18 min	finished	Re-Watch
3	iOS Architecture, Custom Components	18 min	started	Continue
4	iOS Architecture, Custom Components	18 min	not_started	Start
5	iOS Architecture, Custom Components	18 min	not_started	Start
6	iOS Architecture, Custom Components	18 min	not_started	Start
7	iOS Architecture, Custom Components	18 min	not_started	Start
8	iOS Architecture, Custom Components	10 min	not_started	Start

### 4) Lesson Page: Users can watch offline lesson in this page and navigate between other lessons.

**Lesson List**

1. Yapikredi Mobil Uygulaması iOS/Android Aktarım-Giriş
2. iOS Architecture, Custom Components
3. iOS Architecture, Custom Components
4. iOS Architecture, Custom Components
5. iOS Architecture, Custom Components
6. iOS Architecture, Custom Components
7. iOS Architecture, Custom Components
8. iOS Architecture, Custom Components
9. iOS Architecture, Custom Components
10. iOS Architecture, Custom Components

## 5) Admin / Training List: Managers can list all trainings in the system.

Title	Trainer	Created By	Actions
İş Sağlığı ve Güvenliği-UE/001-20	Dickerson	Macdonald	
YAS İİ7 Bilgi Güvenliği HTML 2021-UE/001-21	Larsen	Shaw	
Etik Kurallar ve Çalışma İlkeleri 2020-UE/001-20	Geneva	Wilson	

6) Admin / Create Training Page: Managers can create new training in this page.

Create a New Training  
You can create online / offline training in this page.

Training Info:

Title

Trainer

Description

Is Online

Save Changes Cancel

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About Team Contact

7) Admin / Training Details: Managers can see the details and lesson list of training.

The screenshot shows a course titled "İş Sağlığı ve Güvenliği-UE/001-20". The course details include:

- Type: Online
- Registered User: 175
- Lesson: 12
- Participants: 5+

The course description states: "I distinguish three main text objectives could be merely to inform people. A second could be persuade people. You want people to buy objective".

#### Lessons

Lesson list of the training.

- | Lesson  | Duration | Action |
|---|----------|--------|
| 1. Yapikredi Mobil Uygulaması iOS/Android Aktarım-Giriş | 20 min   |        |
| 2. iOS Architecture, Custom Components                  | 18 min   |        |
| 3. iOS Architecture, Custom Components                  | 18 min   |        |
| 4. iOS Architecture, Custom Components                  | 18 min   |        |
| 5. iOS Architecture, Custom Components                  | 18 min   |        |
| 6. iOS Architecture, Custom Components                  | 18 min   |        |
| 7. iOS Architecture, Custom Components                  | 18 min   |        |
| 8. iOS Architecture, Custom Components                  | 18 min   |        |

[Add Lesson](#)

8) Admin / Create Online Lesson: Managers can add an online lesson to the training in this page.

The form is titled "Create a New Online Lesson" and includes the following fields:

- Online Lesson Info:
  - Title (input field)
  - Description (text area)
  - Meeting Date: 10 Aralık 2021 Cuma (date picker)
  - Zoom Link (input field)

Buttons at the top right include "Create" and "Cancel".

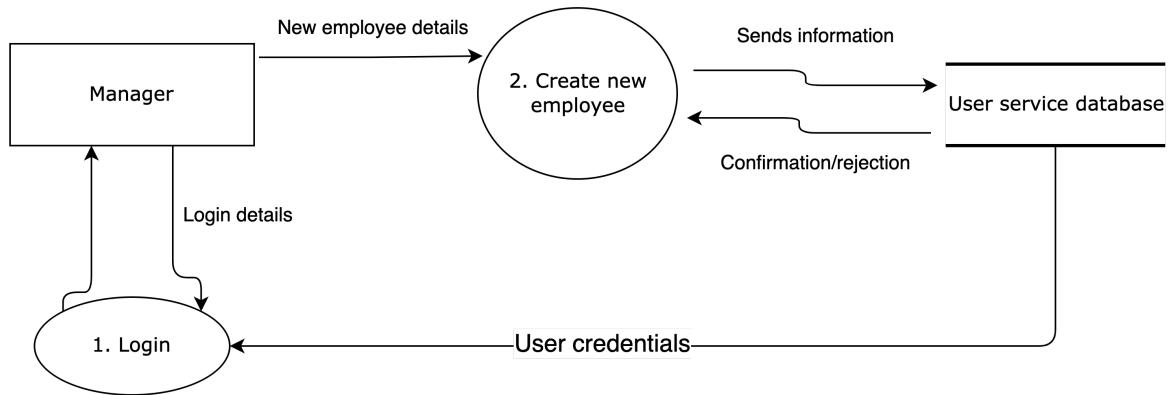
9) Admin / Create Offline Lesson: Managers can add an offline lesson to the training in this page.

The screenshot shows a web-based application for managing training content. At the top, there's a navigation bar with icons for search, create, and user management. A red notification badge with the number '3' is visible on the user icon. Below the header, a sub-header reads 'Create a New Offline Lesson' with a note: 'You can create offline lesson in this page.' On the right side of this sub-header are 'Create' and 'Cancel' buttons. The main form area is titled 'Offline Lesson Info:' and contains three input fields: 'Title' (empty), 'Description' (empty), and 'Video File' (with a placeholder 'No file chosen' and a 'Browse' button). Below this, a section titled 'Lesson Files:' allows for adding additional class files like source code or lecture notes. It includes an 'Add File' button and two file entries: 'Requirement Analysis.txt' and '9603701a-a82c-4fd5-a09b-79dbce23692e (3).pdf'. Each file entry has a 'Browse' button and a small red circular 'X' button for deletion. At the bottom of the page, there are footer links for 'About', 'Team', and 'Contact'.

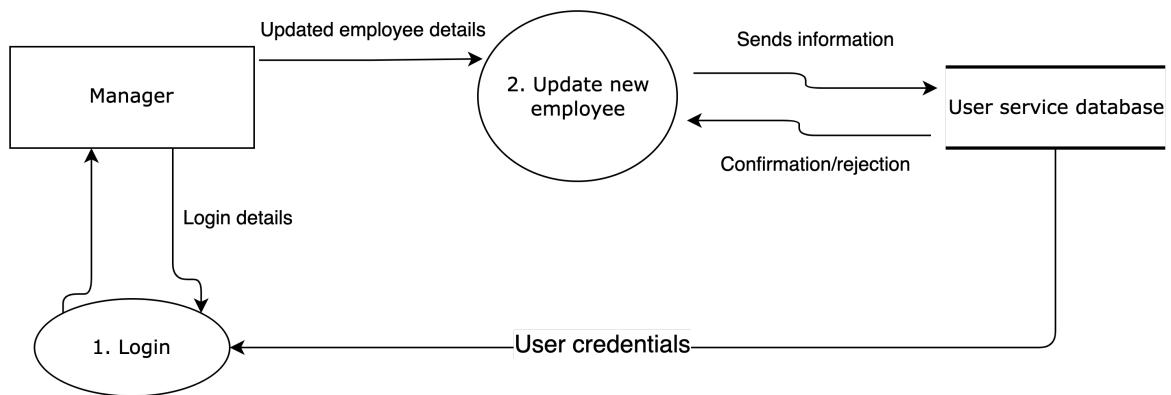
## 5. Flow Diagrams

### 5.1 Flow Diagrams

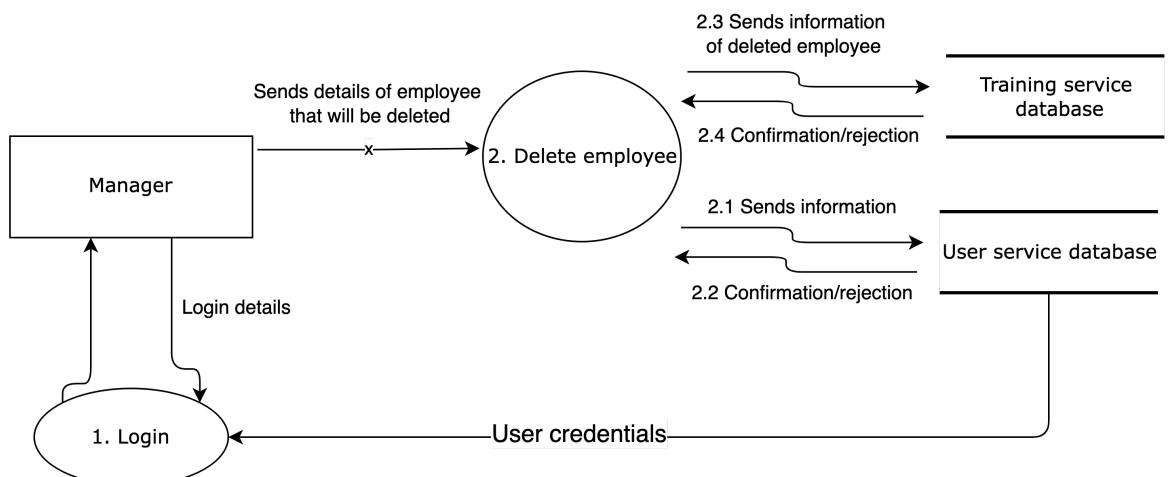
- ▼ Manager creates new employee



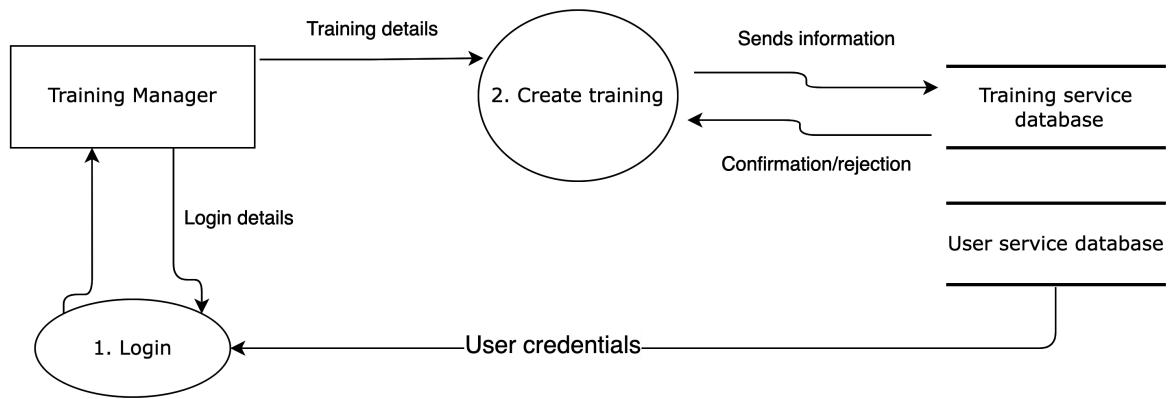
### ▼ Manager updates employee



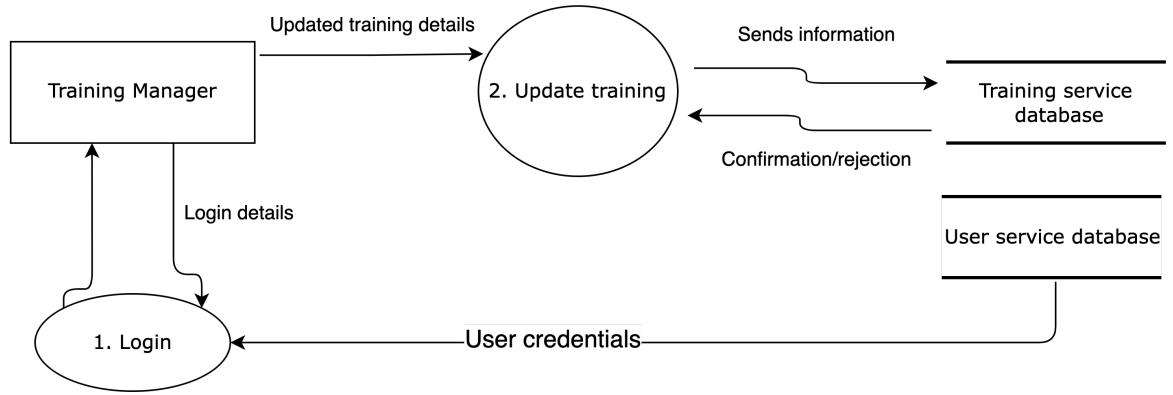
### ▼ Manager deletes employee



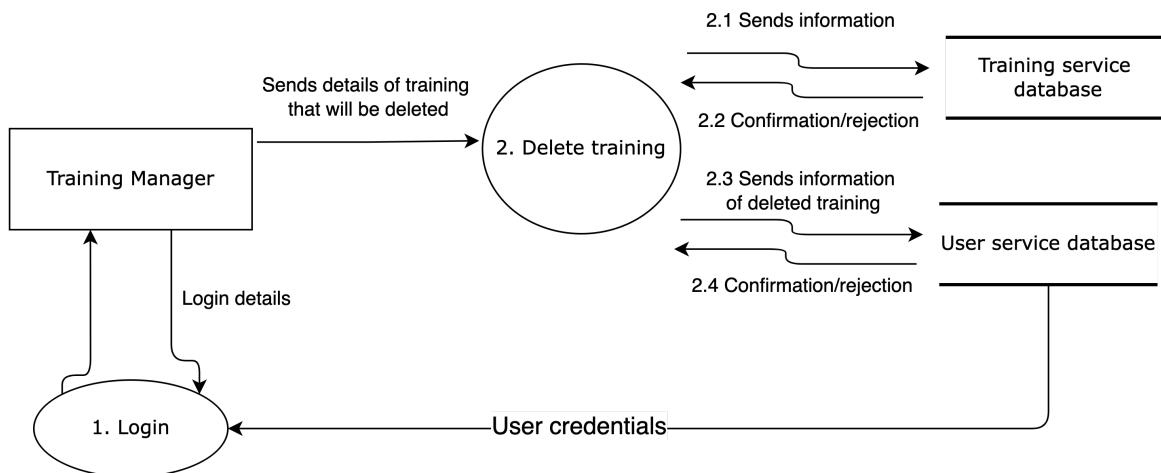
▼ Training Manager creates new training



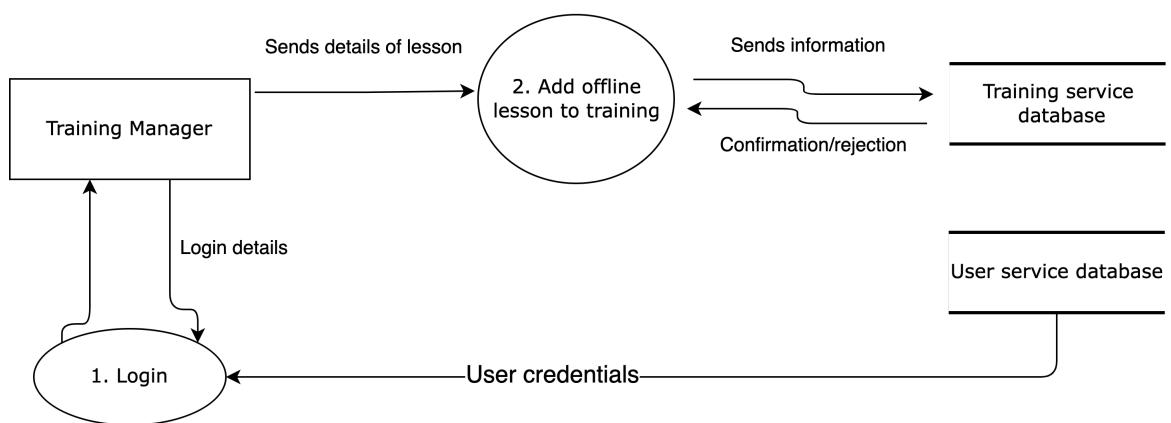
▼ Training Manager updates training



▼ Training Manager deletes training



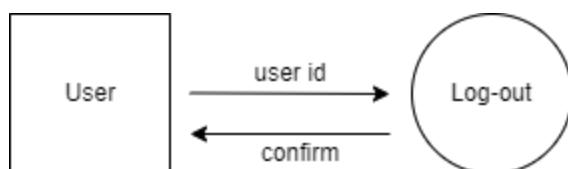
#### ▼ Training Manager adds offline lesson to training



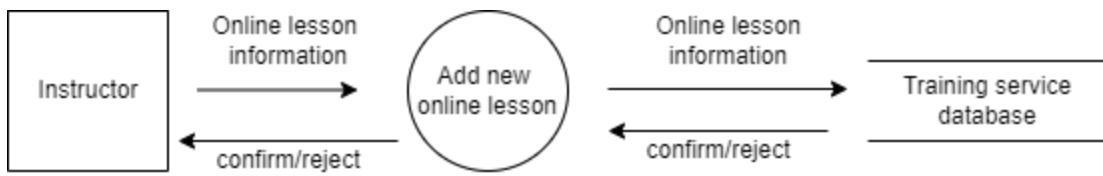
#### ▼ User logs-in



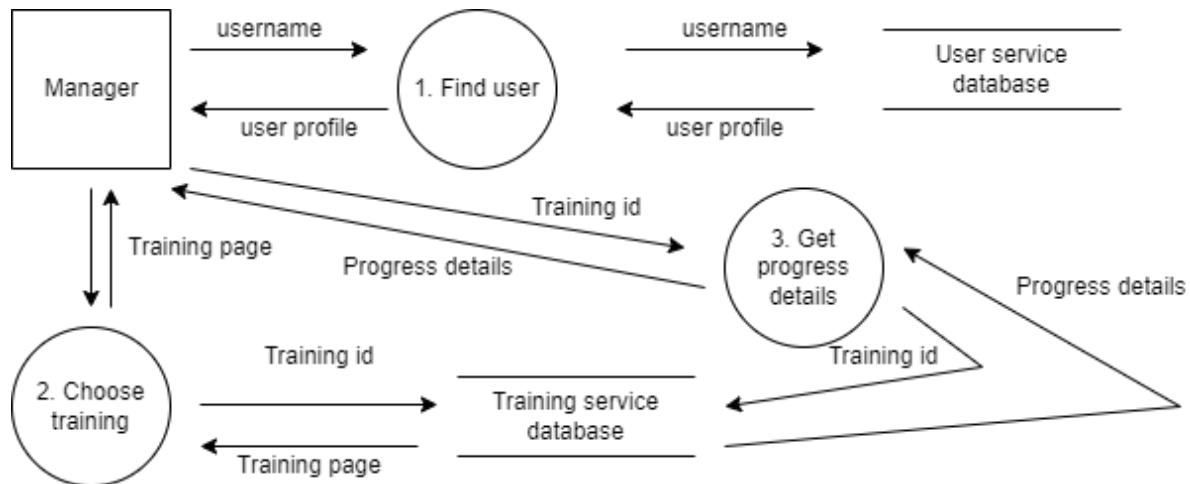
#### ▼ User logs-out



▼ Instructor adds a new online lesson into a training



▼ Manager gets a specific user's progress report about a specific training



▼ Manager confirms a user's participation request to a training



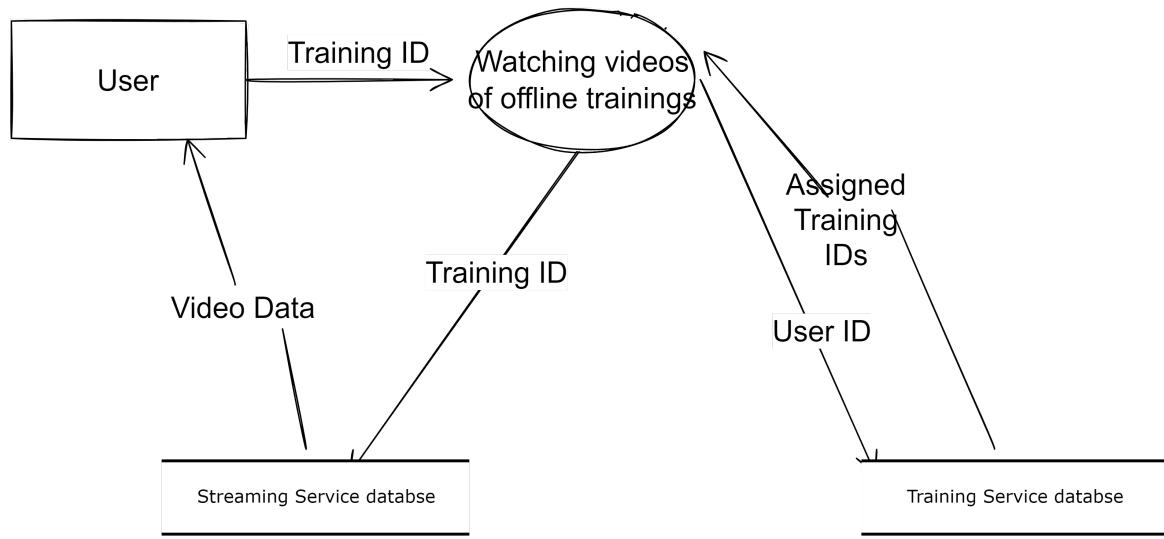
▼ Manager rejects a user's participation request to a training



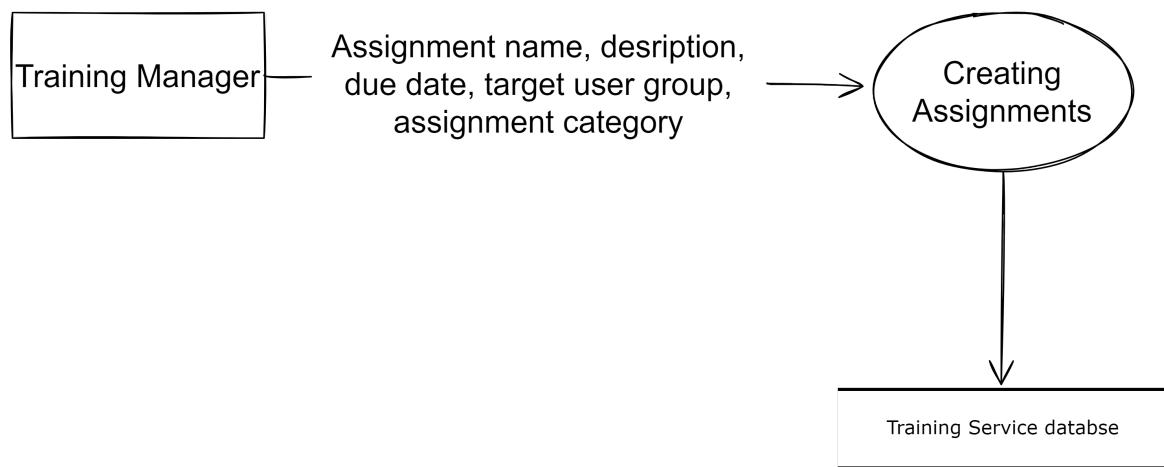
▼ Instructor gets the list of participants



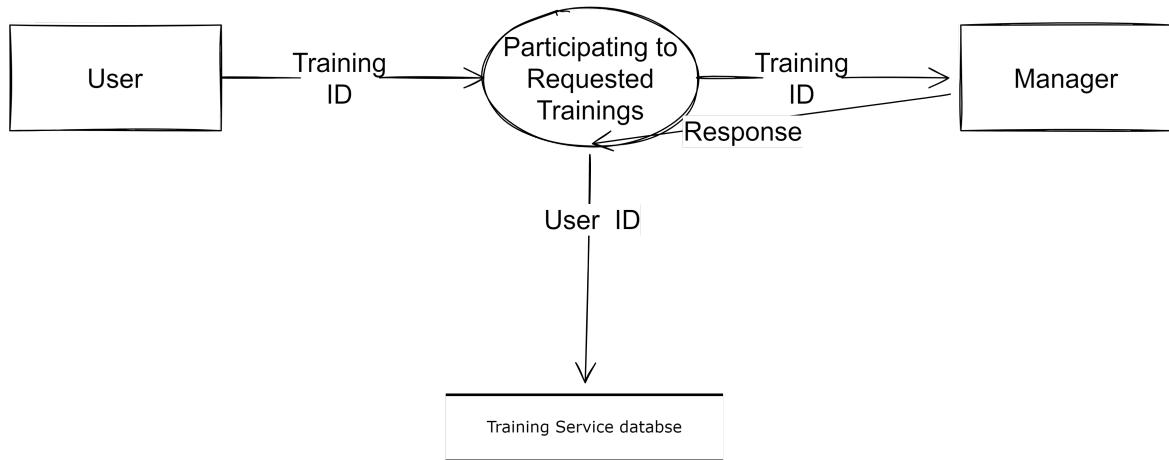
▼ User watches videos of offline trainings



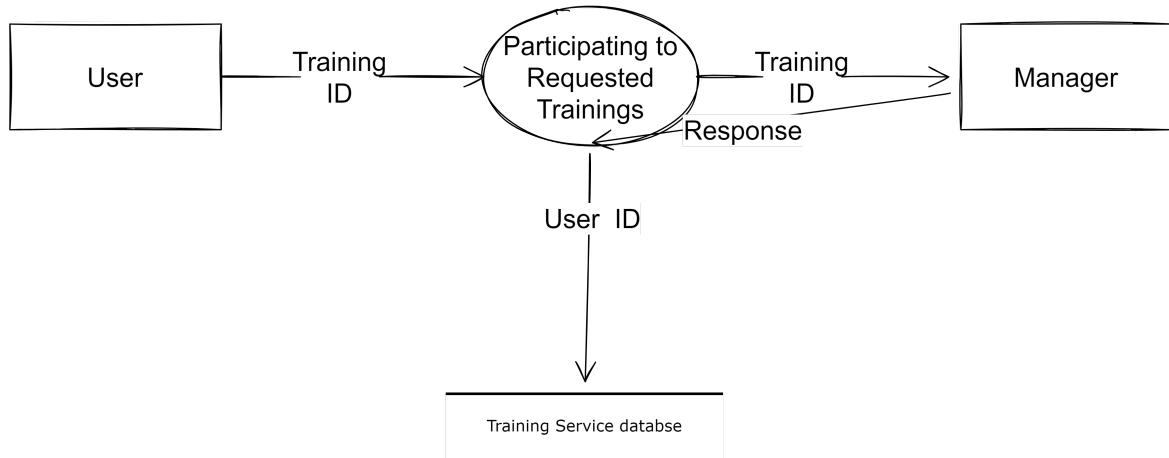
▼ Training Manager creating assignments



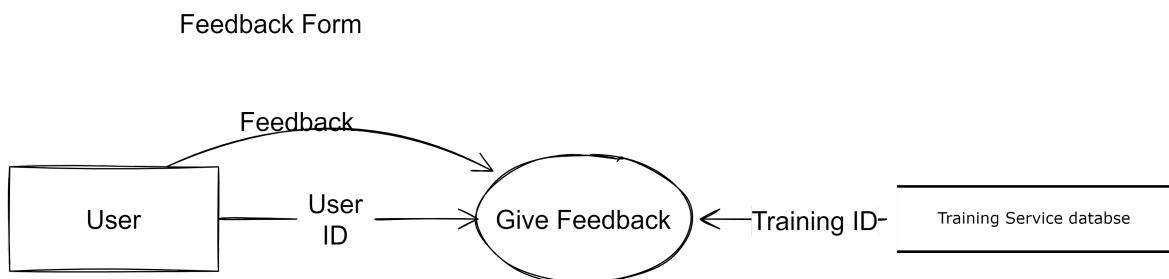
▼ User participating to requested trainings



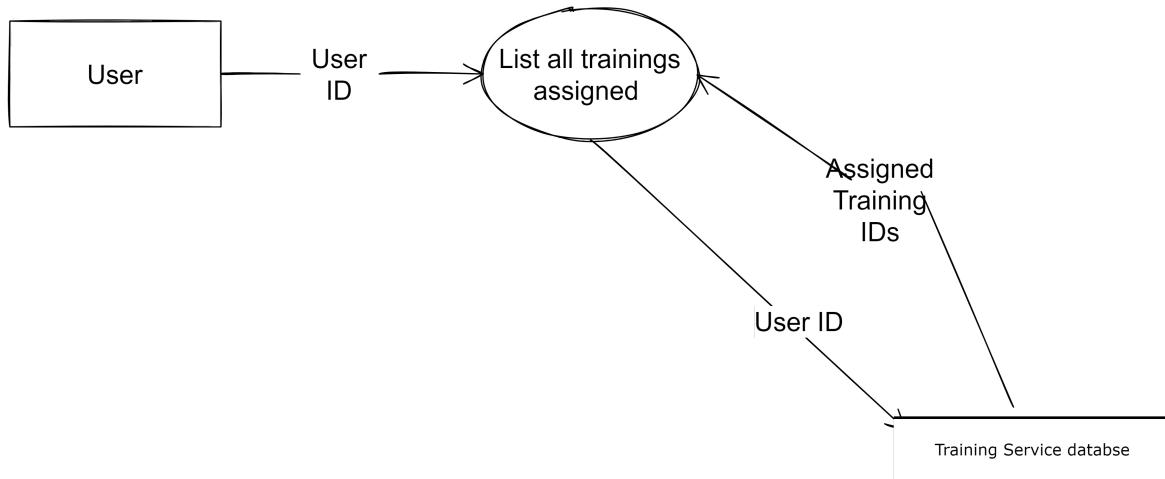
#### ▼ User viewing notifications



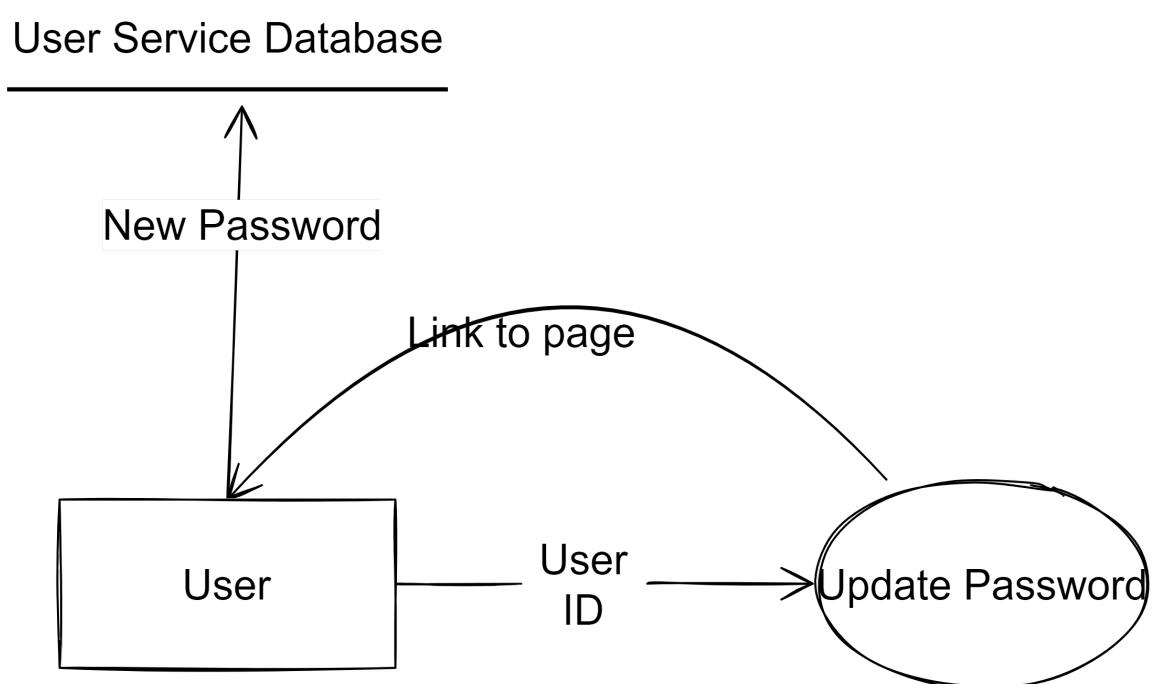
#### ▼ User giving feedback for a completed training



#### ▼ User listing all trainings assigned to it



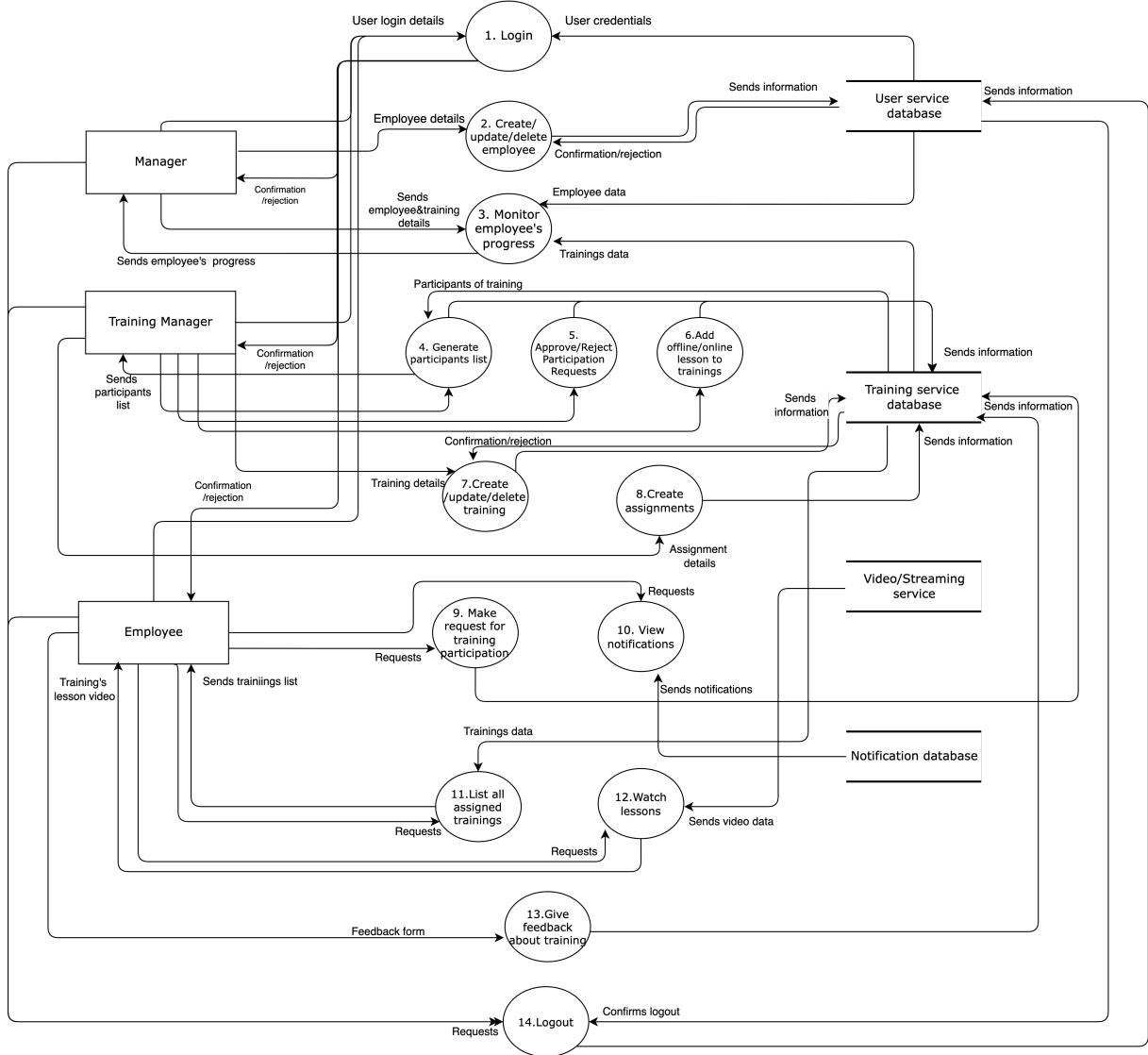
#### ▼ User updating password



## 5.3 Important data considerations

Communication between micro-services is established by REST API. During this process, JSON data format is used.

## 5.4 Data flow



Since we are implementing this project with micro-services architecture, we are using different data stores for each service. These are user service database, training service database, video/streaming database and notification database. There are 3 roles in our project: Manager, Training Manager and Employee. All interactions and use cases that specified in Part 3.4 are shown in the figure above.