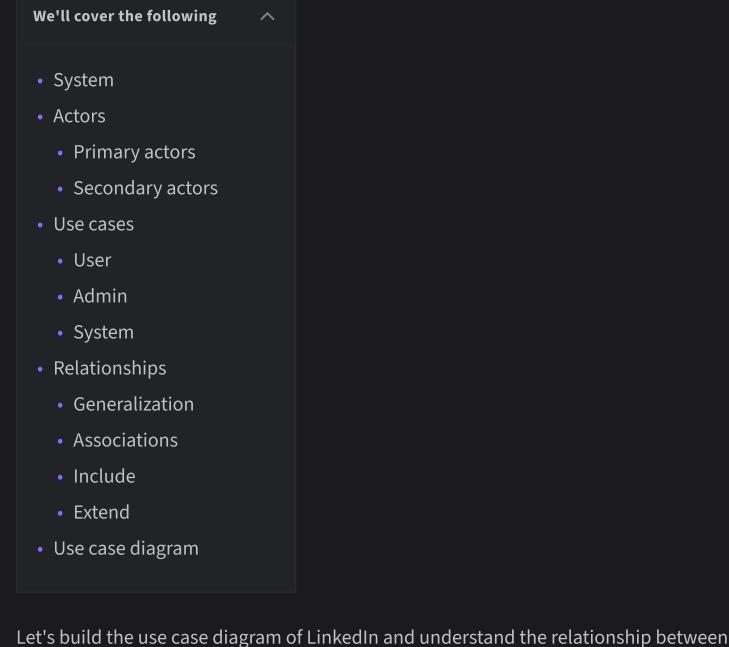
Use Case Diagram for LinkedIn

Learn how to define use cases and create the corresponding use case diagram for the LinkedIn problem.



its different components.

First, we'll define the different elements of our LinkedIn system, followed by the complete use case diagram of the system.

Our system is "LinkedIn." **Actors**

Primary actors • **User:** This actor can create a profile including their professional information.

System

They can create posts, apply for jobs, follow pages, and join groups. They can also interact with other users by sending them connection invitations and

Now, we'll define the main actors of LinkedIn.

messages, commenting on their posts, etc.

shared among different actors in the system.

achievement to update an existing profile

including update, delete, or follow an existing page

invitation from another user

joining or leaving an existing group

a particular comment, or delete a comment

• Post a job: To post the job on the page

views, and search appearances of the user

an existing comment

• Admin: The admin is in charge of performing numerous operations, including

group, etc.

Secondary actors

Use cases In this section, we'll define the use cases for LinkedIn. We have listed the use cases according to their respective interactions with a particular actor.

Note: You'll see some use cases occurring multiple times because they are

• **System:** This is responsible for sending out notifications for new connection

requests, messages, comments, posts, recommendations, etc.

blocking or unblocking users, enabling/disabling pages, deleting an existing

User

Follow/unfollow user: To follow or unfollow other users **Send message:** To send a message to other users **Send connection invitation:** To send a connection invitation to other users

• Create/follow/unfollow page: To either create a new page or perform actions

• Create/join/leave a group: To either create a new group or perform actions like

• Accept/ignore connection invitation: To accept or ignore a connection

• Add/update profile: To add information like education, experience, skill, and

- Add/share post: To add a new post or share an existing post Update/delete/react post: To update a post, delete a post, or react to the post Comment on post/comment: To comment on the post, or to add a comment on
- Search users/groups/pages/jobs: To search for other users, or any existing groups, company pages, or jobs

• View analytics: To see the number of connections, post impressions, profile

• **Update/delete/react comment:** To update the content of the comment, react to

• Accept recommendation: To accept a recommendation request from the user **Delete recommendation:** To delete a recommendation request from the user

• Block/unblock user: To block or unblock a user on LinkedIn

Enable/disable page: To enable or disable a page

• **Delete group:** To delete an existing group

invitation sent by any user

requested by any user

Request recommendation: To send a recommendation request to other users

- System New post notification: To send a notification of any new posts
 - **New comment notification:** To send a notification whenever another user comments on a user's post or comment • Connection invitation notification: To send a notification of any connection

Recommendation notification: To send a notification of recommendation

Message notification: To send a notification of any new messages

• Add recommendation: To add a recommendation to the user's profile

This section describes the relationships between and among actors and their use

• The user can add/update their profile by either adding or updating their

Relationships

cases.

Admin

- Generalization
 - profile" use case has a generalization relationship with "Add/update education," "Add/update experience," "Add/update skill," and "Add/update achievement" use cases.

The table below shows the association relationship between actors and their use

Block/unblock user

Enable/disable page

Delete group

Admin

System

New post notification

Message notification

Add recommendation

New comment notification

Connection invitation notificat

Recommendation notification

education, experience, skill, or achievement. This shows that the "Add/update

Follow/unfollow user Send message

Send connection invitation

Accept/ignore connection

Create/follow/unfollow page

Create/join/leave a group

Update/delete/react post

Comment on post/comment

Update/delete/react comment

Search users/groups/pages/jobs

Request recommendation

Accept recommendation

Delete recommendation

Add/share post

invitation

Add/update profile

User

Associations

cases.

Post a job View analytics

Detete recommendation		
Include		
····ctaac		
· ·	case has an include relationsh cause whenever a user receive	
	vitation" use case has an includation" use case. Wheneve esystem notifies the user.	
recommendation in the u	e recommendation request, the ser's profile. Therefore, the "A elationship with the "Add reco	ccept recommendation"
	case has an include relations user creates a post or shares i	
"New comment notification	omment" use case has an inclon" use case. Whenever a new ther created by the default use totifies the default user.	comment is made by
◆ The "Request recomment	lation" use case has an includ	e relationship with the
"Recommendation notific	cation" use case. Whenever a ι	user gets a

• When users get the recommendation request, they can either accept or delete

the request. Therefore, the "Request recommendation" use case has an extend

relationship with the "Accept recommendation" and "Delete recommendation"

• Whenever the users get a connection invitation request, they can either accept or

ignore the request. Therefore, the "Send connection invitation" use case has an

extend relationship with the "Accept/ignore connection invitation" use case.

LinkedIn

Add/update

achievement

Add/update

experience

Add/update

education

Accept

recommendation

 Δ

Request

recommendation

Send connection

invitation

<extends>>

<extends>>

<extends>>

<<include>>

<<include>>

<<include>>

<include>>

Enable/disable

page

Delete group

Block/unblock

user

Add

recommendation

Recommendation

notification

Connection

invitation

notification

New post

Page/Group Admin

recommendation request, the system notifies the user.

Extend

use cases.

Use case diagram

Here's the use case diagram of LinkedIn:

Add/update

skill

Add/update

profile

Post a job

View analytics

Delete

recommendation

Accept/ignore

connection

invitation

Follow/unfollow

Add/share post notification System User Search <<include>> Comment on New comment users/groups/ post/comment notification pages/jobs <<include>> Message Update/delete/ Send message notification react comment Create/ Create/join/ Update/delete/ follow/unfollow leave a group react post page The use case diagram of LinkedIn In the next lesson, we'll discuss the class diagram with a detailed explanation of all classes and their relationship with each other. \leftarrow Back Complete Requirements for LinkedIn Next \rightarrow Class Diagram for LinkedIn