

Special class

# LinkedIn Design

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### Introduction

 Platform Overview: LinkedIn is an employment-oriented social networking platform designed for managing professional identities and facilitating career development.

#### 2. Key Functions:

- 1. Enables professional networking and career growth.
- 2. Allows users to find and connect with trusted professionals.
- 3. Employers can post job listings, and job seekers can post resumes.

#### 3. User Profiles and Interaction:

- Users can create detailed profiles showcasing education, experience, skills, achievements, and endorsements.
- Interactive features include posting content, commenting, sending direct messages, and forming groups.

#### 4. Personalised Experience:

 Generates a personalised feed based on users' connections, job history, educational background, group memberships, and content interactions.

#### LinkedIn Platform Requirements Overview

This document delineates the essential requirements for the LinkedIn platform, ensuring a clear guideline for functionalities aimed at enhancing professional networking and career development.

- 1. Profile Customization: Users can enrich their profiles with educational background, work experiences, achievements, and skills, offering a comprehensive professional summary.
- 2. Search and Exploration: Users have the capability to search for and view other users' profiles, pages, and groups, fostering networking and community engagement.
- 3. Connection Management: Users can send, cancel, accept, or ignore connection requests, enabling them to curate their professional network.
- 4. Following Users: The platform allows users to follow others without needing to connect, expanding their access to diverse professional insights and updates.
- 5. Insights and Analytics: Users can view analytics related to their connections, profile views, post impressions, and search appearances, offering valuable feedback on their professional visibility.
- 6. Recommendations: Users can request and provide professional recommendations, enhancing the credibility and value of their professional network.
- 7. Content Creation: Users have the ability to create and share new posts, contributing to the professional discourse within their network.
- 8. Engagement with Content: Users can interact with posts through reactions, shares, and comments, and also engage with comments on posts, fostering a vibrant professional community.
- 9. Messaging: Direct communication is facilitated through messaging, allowing users to send and receive messages with other professionals.
- 10. Notifications: The system will notify users about new messages, connection requests, and interactions with their content, keeping them informed and engaged.
- 11. Company Pages: Users can create pages for companies and follow other company pages, connecting them with corporate entities and professional opportunities.
- Job Listings: Company pages can feature job openings, enabling users to explore and apply for career opportunities.
- 13. Groups: Users have the option to create and join professional groups, encouraging the exchange of ideas and networking within specific interest areas or industries.

### Use-case Diagram

- System: LinkedIn
- Actors
  - Primary

#### 1. User

- Create a profile with professional information.
- Generate content through posts.
- Apply for job opportunities.
- 4. Follow relevant pages and join groups for networking.
- Engage with other users by sending connection invitations, messaging, and commenting on posts.

#### 2. Admin

- Blocking or unblocking users.
- Enabling or disabling pages.
- Deleting existing groups.
- 4. Overseeing various other operational tasks.

### Use-case Diagram

#### Secondary Actors

#### 1. System

- Sends notifications for new connection requests.
- 2. Alerts users to incoming messages.
- Notifies about comments on posts.
- Provides updates on posts.
- Delivers recommendations and other alerts.

### Use-cases of User

- Add/Update Profile: Add details like education, experience, skills, and achievements or update an existing profile.
- Follow/Unfollow User: Follow or unfollow other users.
- Send Message: Send messages to other users.
- 4. Send Connection Invitation: Send a connection request to other users.
- Accept/Ignore Connection Invitation: Accept or ignore connection requests from other users.
- Create/Follow/Unfollow Page: Create a new page or update, delete, follow, or unfollow an existing page.
- 7. Create/Join/Leave Group: Create a new group, or join or leave an existing group.
- 8. Add/Share Post: Add a new post or share an existing one.
- 9. Update/Delete/React to Post: Update, delete, or react to a post.
- 10. Comment on Post/Comment: Comment on a post or on an existing comment.
- 11. Update/Delete/React to Comment: Update, delete, or react to a comment.
- 12. Search Users/Groups/Pages/Jobs: Search for users, groups, pages, or job listings.
- 13. Post a Job: Post job listings on the page.
- 14. View Analytics: View analytics such as the number of connections, post impressions, profile views, and search appearances.
- Request Recommendation: Send a recommendation request to other users.
- Accept Recommendation: Accept a recommendation request from another user.
- 17. Delete Recommendation: Delete a recommendation request from another user.

### **Use-cases of Admin**

- Block/Unblock User: Block or unblock a user.
- 2. Enable/Disable Page: Enable or disable a page.
- 3. Delete Group: Remove an existing group.

### Use-cases of System

- New Post Notification: Send notifications when new posts are published.
- New Comment Notification: Notify users when another user comments on their posts or comments.
- Connection Invitation Notification: Alert users to new connection invitations.
- 4. Message Notification: Inform users of new messages.
- Recommendation Notification: Notify users when a recommendation is requested.
- 6. Add Recommendation: Add recommendation to the profile.

### Relationships: Generalisation

-In this section, we outline the connections and interactions between actors and their respective use cases.

- The user has the ability to add or update their profile by incorporating changes to their education, experience, skills, or achievements.
- This indicates that the "Add/Update Profile" use case is a generalisation of the "Add/ Update Education," "Add/Update Experience," "Add/Update Skill," and "Add/Update Achievement" use cases.

# Relationships: Associations

User	Admin	System
Add/update profile	Block/unblock user	New post notification
Follow/unfollow user	Enable/disable page	New comment notification
Send message	Delete group	Connection invitation notification
Send connection invitation		Message notification
Accept/ignore connection invitation		Recommendation notification
Create/follow/unfollow page		Add recommendation
Create/join/leave a group		
Add/share post		
Update/delete/react post		
Comment on post/comment		
Update/delete/react comment		
Search users/groups/pages/jobs		
Post a job		
View analytics		
Request recommendation		
Accept recommendation		
Delete recommendation		ii

### Relationships: Include

- A. The "Send message" use case includes the "Message notification" use case because users are notified whenever they receive a message.
- B. The "Send connection invitation" use case includes the "Connection invitation notification" use case, as the system notifies users upon receiving a connection invitation.
- C. The "Accept recommendation" use case includes the "Add recommendation" use case because when a user accepts a recommendation request, the system automatically adds that recommendation to the user's profile.
- D. The "Add/share post" use case includes the "New post notification" use case; whenever a user creates or shares a post, the system notifies connected users.
- E. The "Comment on post/comment" use case includes the "New comment notification" use case, which triggers a notification to the user whenever a new comment is made on their post or a followed post.
- F. The "Request recommendation" use case includes the "Recommendation notification" use case, alerting users whenever they receive a recommendation request.

### Relationships: Extend

- When users receive a recommendation request, they have the option to either accept or delete
  it. As a result, the "Request recommendation" use case extends both the "Accept
  recommendation" and "Delete recommendation" use cases.
- When users receive a connection invitation, they can choose to either accept or ignore it. Thus, the "Send connection invitation" use case extends the "Accept/ignore connection invitation" use case.

## Final UCD

LoBserver Pattern) Class Diagram Subject

DlinkedIn wer join Croup (2) Croup Posts something

Group

Group

Croup

Croup

Cid a views

(2 Subject >> <60 b server>>>