

**TPA Web**

**LinkHEd In**

Hansen Artajaya

July 6, 2022

Bina Nusantara University

# Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>Technology</b>	<b>1</b>
<b>3</b>	<b>Requirements</b>	<b>2</b>
3.1	General . . . . .	2
3.2	All Pages . . . . .	2
3.3	All Components . . . . .	2
3.4	Log In Page . . . . .	3
3.5	Register Page . . . . .	4
3.6	Forgot Password Page . . . . .	5
3.7	Reset Password Page . . . . .	5
3.8	Navigation Bar Component . . . . .	6
3.9	Footer Component . . . . .	6
3.10	Home Page . . . . .	7
3.11	Create Post Component . . . . .	8
3.12	Post Component . . . . .	9
3.13	Comment Component . . . . .	10
3.14	Rich Text . . . . .	10
3.15	Search Page . . . . .	11
3.16	Profile Page . . . . .	12
3.17	My Network Page . . . . .	13
3.18	User You Might Know . . . . .	14
3.19	Jobs Page . . . . .	14
3.20	Notification Page . . . . .	15
3.21	Messaging Page . . . . .	16

# 1 Introduction

This document describes the requirements of *LinkHEd In* web app. The requirements described in this document may change as needed (If any changes were to be made, it will be announced). Hence, if any problem were to be found in the description or any unclear description is found, please contact *Hansen Artajaya* to ask for clarification.



Figure 1: Logo

## 2 Technology

The technologies that **must** be used in this project are:

- Vite (Build Tools)
- React JS (Web Framework)
- Typescript (Frontend language)
- SCSS / SASS (Styling language)
- Go (Backend language)
- PostgreSQL (Database)
- Docker (Environment)

This project may also use other technologies than listed above. However, exception is to be made for styling libraries. This project must not use any styling libraries other than SCSS / SASS. If you want to include a library but you are not sure if the library counts as styling libraries or not, you may ask *Hansen Artajaya* to ask for clarification.

## 3 Requirements

### 3.1 General

3.1.1 Must pay attention to performance be it in frontend, backend, and database.

3.1.2 Must be able to explain the purpose and reason of code.

### 3.2 All Pages

3.2.1 Must at least have color pallete of *primary color*, *secondary color*, and *accent color*.

3.2.2 Must follow the *60/30/10* rule of web design.

3.2.3 Must have two themes: *Light* and *dark*.

3.2.4 Must be able to toggle between those two themes.

3.2.5 Must be responsive on desktop, tablet, and mobile.

3.2.6 Must have proper *UX*.

3.2.7 Must have proper authorization.

3.2.8 Must display **3.8 Navigation Bar Component** for page that is authorized for logged in user.

3.2.9 May follow the figure of page.

### 3.3 All Components

3.3.1 Must be seen as part of page.

3.3.2 May follow the figure of component.

### 3.4 Log In Page

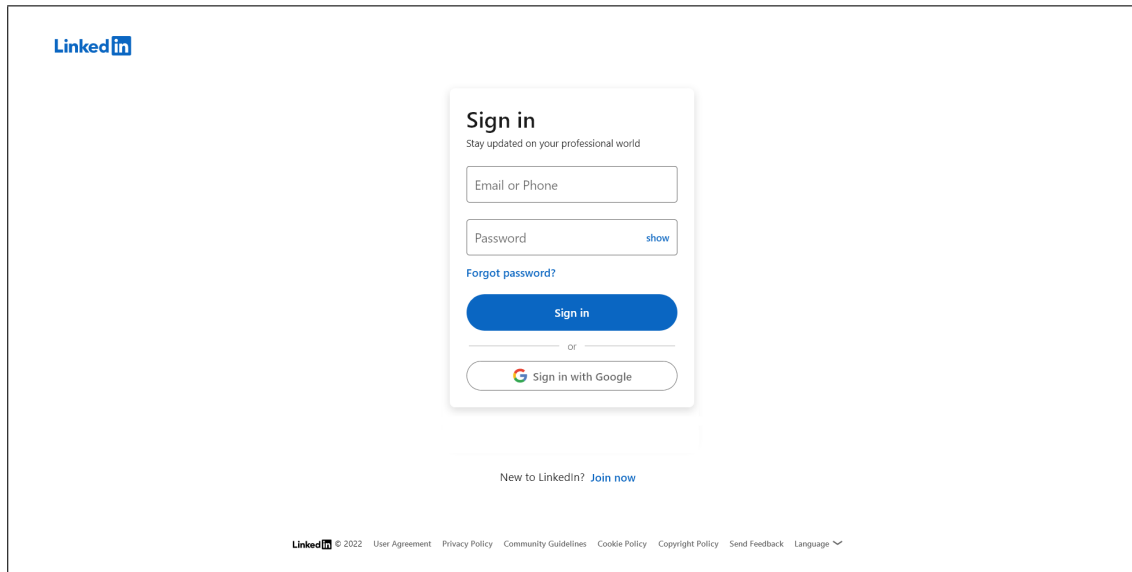
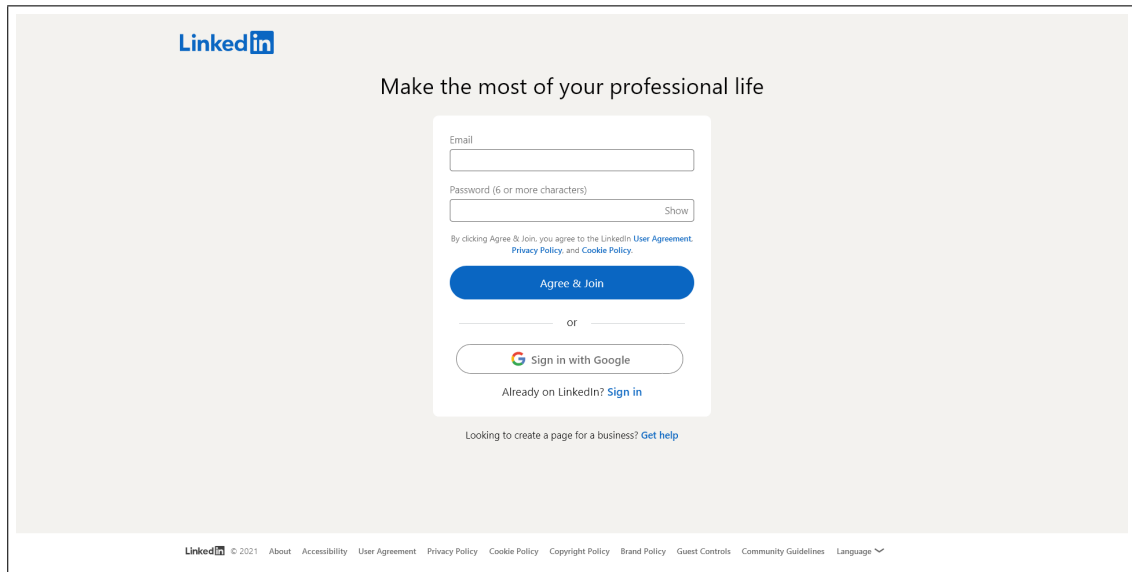


Figure 2: Log In Page

- 3.4.1 Must be authorized only to guest.
- 3.4.2 Must redirect here if guest were to enter unauthorized page.
- 3.4.3 Must either use email and password or *Google account* to log in.
- 3.4.4 Must only allow activated to log in.
- 3.4.5 Must display error message if an error were to occur.
- 3.4.6 Must contains link to **3.5 Register Page** and **3.6 Forgot Password Page**.

## 3.5 Register Page

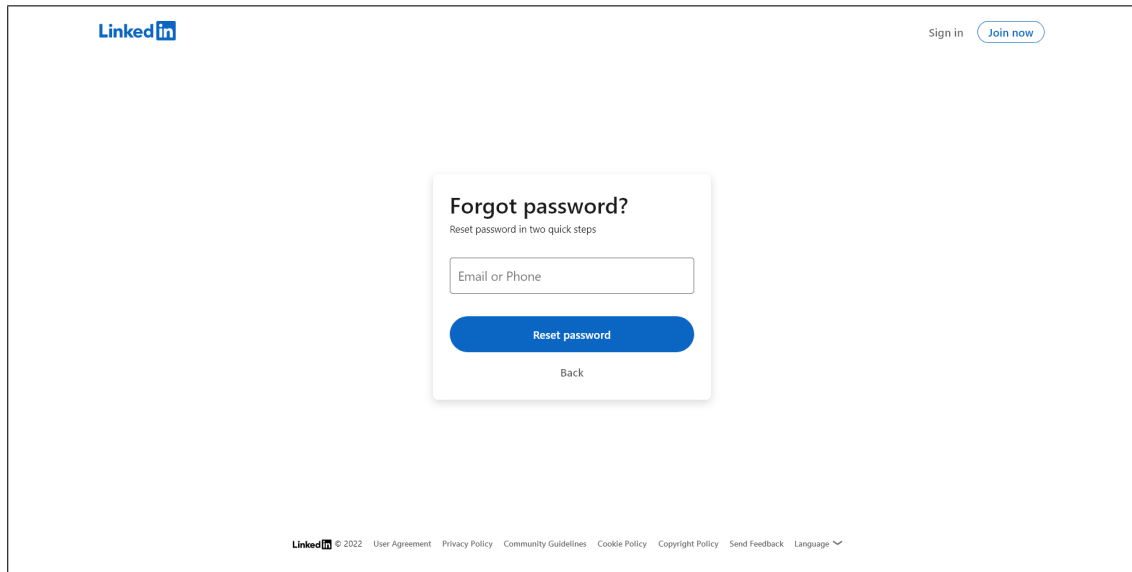


The screenshot shows the LinkedIn registration page. At the top left is the LinkedIn logo. Below it, the text "Make the most of your professional life" is centered. The main content is a white registration form with the following elements: an "Email" input field, a "Password (6 or more characters)" input field with a "Show" toggle, a line of text stating "By clicking Agree & Join, you agree to the LinkedIn [User Agreement](#), [Privacy Policy](#), and [Cookie Policy](#).", a large blue "Agree & Join" button, a horizontal separator with the word "or" in the center, a "Sign in with Google" button featuring the Google logo, and a link "Already on LinkedIn? [Sign in](#)". Below the form is a link "Looking to create a page for a business? [Get help](#)". The footer contains the text "LinkedIn © 2021" followed by a series of links: "About", "Accessibility", "User Agreement", "Privacy Policy", "Cookie Policy", "Copyright Policy", "Brand Policy", "Guest Controls", "Community Guidelines", and "Language" with a dropdown arrow.

Figure 3: Register Page

- 3.5.1 Must be authorized only to guest.
- 3.5.2 Must register new unactivated account either using email and password or *Google account* then ask for personal information.
- 3.5.3 Must only allow an email address to be used by one account.
- 3.5.4 Must send activation link with random code to email for account activation.
- 3.5.5 Must display error message if an error were to occur.
- 3.5.6 Must contains link to **3.4 Log In Page**.

## 3.6 Forgot Password Page



LinkedIn

Sign in [Join now](#)

**Forgot password?**  
Reset password in two quick steps

[Reset password](#)

[Back](#)

LinkedIn © 2022 [User Agreement](#) [Privacy Policy](#) [Community Guidelines](#) [Cookie Policy](#) [Copyright Policy](#) [Send Feedback](#) [Language](#)

Figure 4: Forgot Password Page

- 3.6.1 Must be authorized only to guest.
- 3.6.2 Must only allow email address that is connected to an account.
- 3.6.3 Must send reset password link with random code to email for account reset password.
- 3.6.4 Must display error message if an error were to occur.
- 3.6.5 Must contains link to **3.4 Log In Page**.

## 3.7 Reset Password Page

- 3.7.1 Must be authorized only to guest with valid code.
- 3.7.2 Must contains two fields: *Password* and *Repeat Password*
- 3.7.3 Must make sure *Password* and *Repeat Password* is the same.
- 3.7.4 Must only allow replacing the password of user with *Password* after 3.7.3 is satisfied.

3.7.5 Must display error message if an error were to occur.

3.7.6 Must redirect to **3.4 Log In Page** after 3.7.4 is done.

## 3.8 Navigation Bar Component



Figure 5: Navigation Bar Component

3.8.1 Must display logged user information.

3.8.2 Must allow searching for post and user (**3.15 Search Page**).

3.8.3 Must be able to logout.

3.8.4 Must contains link to **3.10 Home Page**, **3.16 Profile Page**, **3.17 My Network Page**, **3.19 Jobs Page**, **3.20 Notification Page**, and **3.21 Messaging Page**.

## 3.9 Footer Component

3.9.1 Must display at least 5 useful site links(ex: *about, help, privacy & terms, etc.*)

3.9.2 Must be visible on all pages.



## 3.10 Home Page

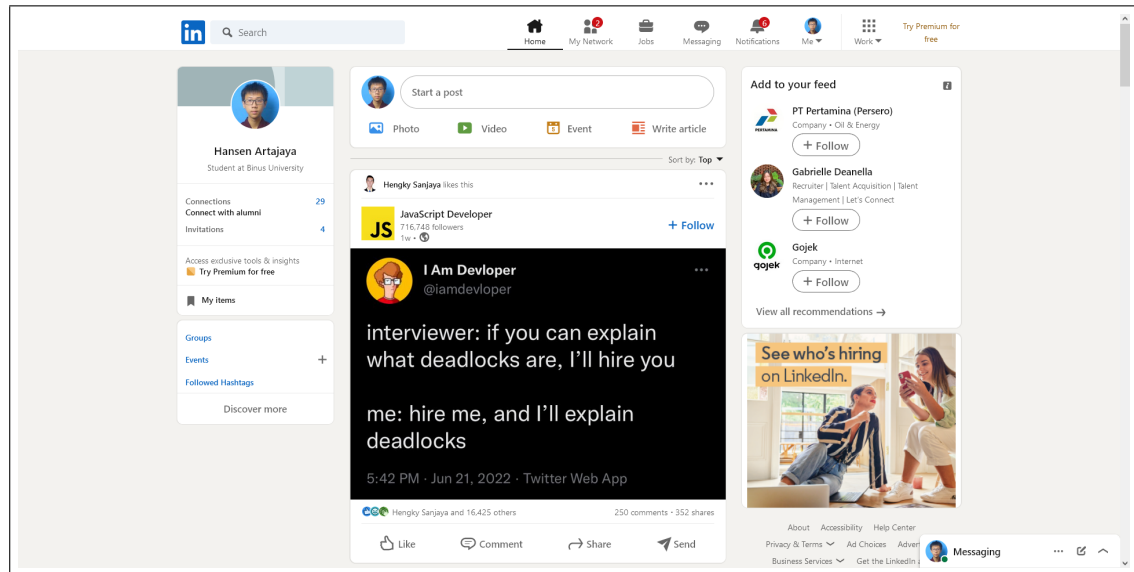


Figure 6: Home Page

- 3.10.1 Must be authorized only to logged in user.
- 3.10.2 Must display the **3.12 Post Component** with *infinite scrolling* of connected user and followed user.
- 3.10.3 Must display loading animation when *infinite scrolling* is fetching its next post(s).
- 3.10.4 Must be able to display **3.11 Create Post Component** as a popup.

### 3.11 Create Post Component

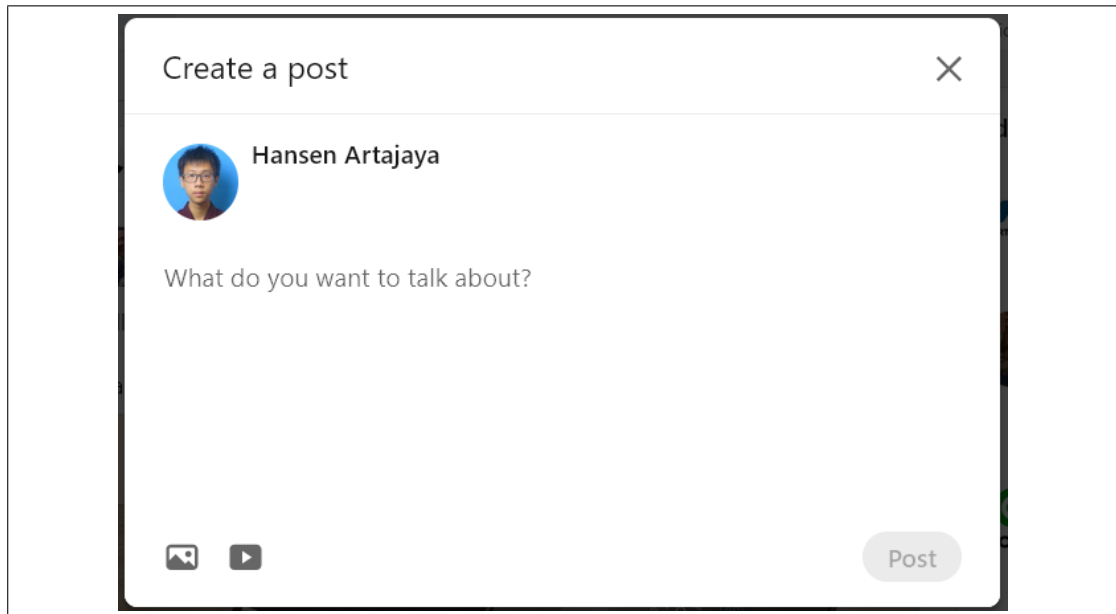


Figure 7: Create Post Component

- 3.11.1 Must be able to create *post* that contains *text* and (either contains one *photo* or one *video* or none at all).
- 3.11.2 If *photo* or *video* is to be added but *photo* or *video* has been added before, replace the existing ones with the new one.
- 3.11.3 Must be able to remove added *photo* or *video*.
- 3.11.4 Must display text content as **3.14 Rich Text**.
- 3.11.5 Must be able to display appropriate autocomplete when typing non-normal *text*.
- 3.11.6 Must be able to display *photo* or *video* when added.
- 3.11.7 Must only be able to post if the text content is not empty.

## 3.12 Post Component



Figure 8: Post Component

- 3.12.1 Must display text content as **3.14 Rich Text**.
- 3.12.2 Must be able to display *photo* or *video* if exists.
- 3.12.3 Must display the profile of poster.
- 3.12.4 Must be able to hover the profile of poster to display additional information about the user.
- 3.12.5 Must display number of comments.
- 3.12.6 Must display number of sends.
- 3.12.7 Must display number of likes.
- 3.12.8 Must be able to like, comment, and share to other people by **3.21 Messaging Page**.
- 3.12.9 Must be able display all comments as **3.13 Comment Component** with button to load more (Similiar to *infinite scrolling*).

### 3.13 Comment Component

- 3.13.1 Must display the profile of commenter.
- 3.13.2 Must display text content as **3.14 Rich Text**.
- 3.13.3 Must be able to be liked.
- 3.13.4 Must display number of likes.
- 3.13.5 Must be able to be replied.
- 3.13.6 Must display all replies as **3.13 Comment Component** with button to load more (Similiar to *infinite scrolling*).

### 3.14 Rich Text

- 3.14.1 *URL* must have different color from *Normal text* and clickable.
- 3.14.2 *User tag* must have different color from *Normal text* and when clicked will navigate to the profile of tagged user.
- 3.14.3 *Hash tag* must have different color from *Normal text* and when clicked will navigate to **3.15 Search Page** to search all post with such *hash tag*.
- 3.14.4 @ must be used to denote *User tag* (ex: @hansen).
- 3.14.5 # must be used to denote *Hash tag* (ex: #BINUSUNIVERSITY).
- 3.14.6 *User tag* and *hash tag* must not contains any space.
- 3.14.7 Must display additional information about the user in *user tag* when hovered.
- 3.14.8 *Normal text* is any character(s) that is not parts of *URL*, *User tag*, or *Hash tag*.

## 3.15 Search Page

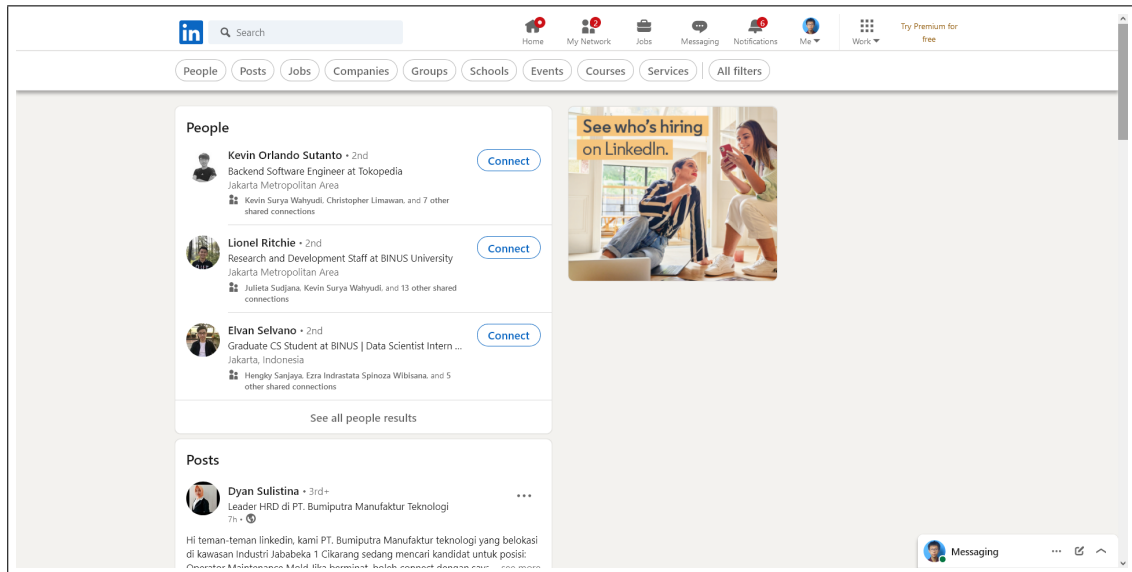


Figure 9: Search Page

- 3.15.1 Must be authorized only to logged in user.
- 3.15.2 Must be able to display all **3.12 Post Component** and user matching the search query with infinite scrolling.
- 3.15.3 Must be able to filter to either post or user.
- 3.15.4 Must be able to send connect request to another user.
- 3.15.5 Must be able to use custom message when connecting to another user.

## 3.16 Profile Page

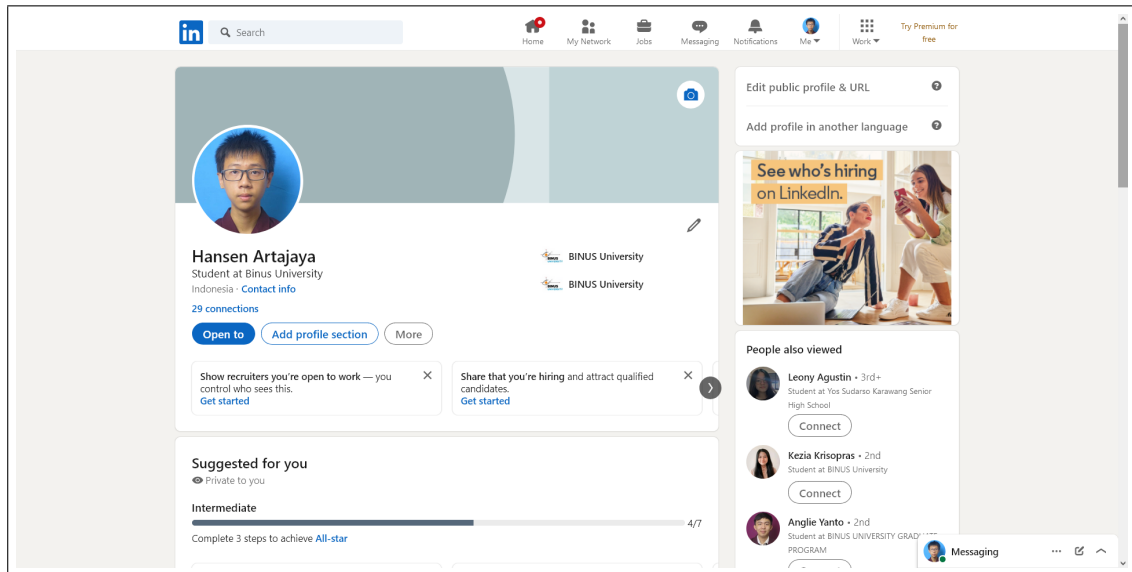


Figure 10: Profile Page

- 3.16.1 Must be authorized only to logged in user.
- 3.16.2 Must display own's personal information.
- 3.16.3 Must display number of profile views.
- 3.16.4 Must display experience.
- 3.16.5 Must display education.
- 3.16.6 Must be able to send connect request if the profile is not the current logged in user.
- 3.16.7 Must be able to edit own's personal information if the profile is the current logged in user.
- 3.16.8 Must be able to edit experience if the profile is the current logged in user.
- 3.16.9 Must be able to edit education if the profile is the current logged in user.
- 3.16.10 Must be able to be follow another user.

- 3.16.11 Must be able to send message.
- 3.16.12 Must be able to save as pdf.
- 3.16.13 Must be able to share profile to message.
- 3.16.14 Must be able to block.
- 3.16.15 Must be able to edit photo.
- 3.16.16 Must be able to edit background photo.
- 3.16.17 Must be able to edit personal information of currently logged in user.

## 3.17 My Network Page

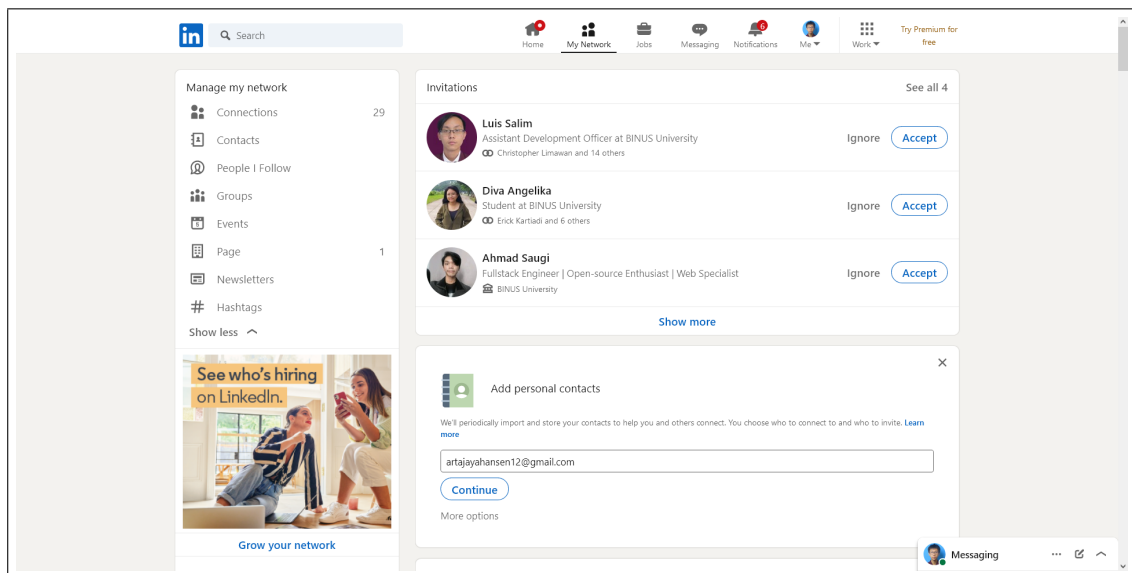


Figure 11: My Network Page

- 3.17.1 Must be authorized only to logged in user.
- 3.17.2 Must display all connect request to currently logged in user.
- 3.17.3 Must display all **3.18 User You Might Know**.

## 3.18 User You Might Know

- 3.18.1 With A as the current logged in user, B as the user that is connected to A, and C as the user that is connected to B but not A; display C.

## 3.19 Jobs Page

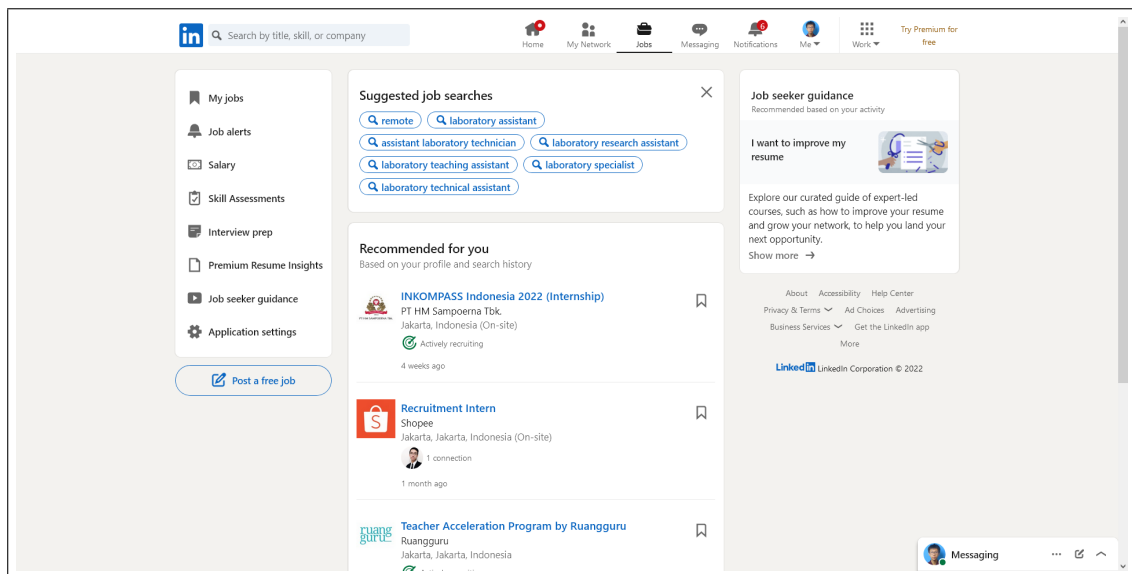


Figure 12: Jobs Page

- 3.19.1 Must be authorized only to logged in user.
- 3.19.2 Must display all posted job offer.
- 3.19.3 Must be able to post new job offer.



## 3.20 Notification Page

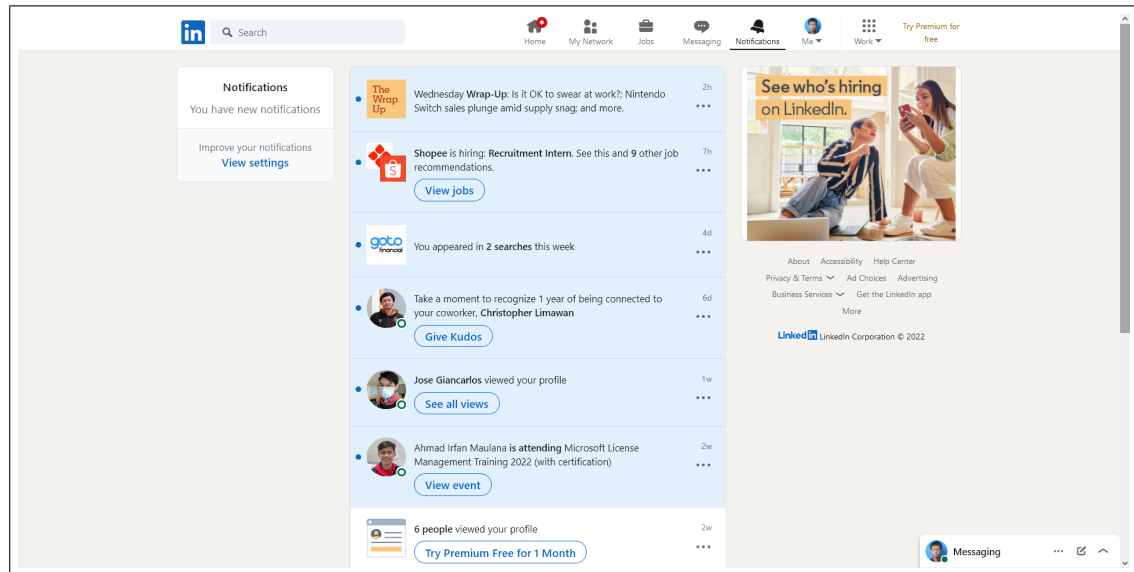


Figure 13: Notification Page

3.20.1 Must be authorized only to logged in user.

3.20.2 Must be able to display all activity that has been done by currently logged in user and all user that has been connected to currently logged in user.

## 3.21 Messaging Page

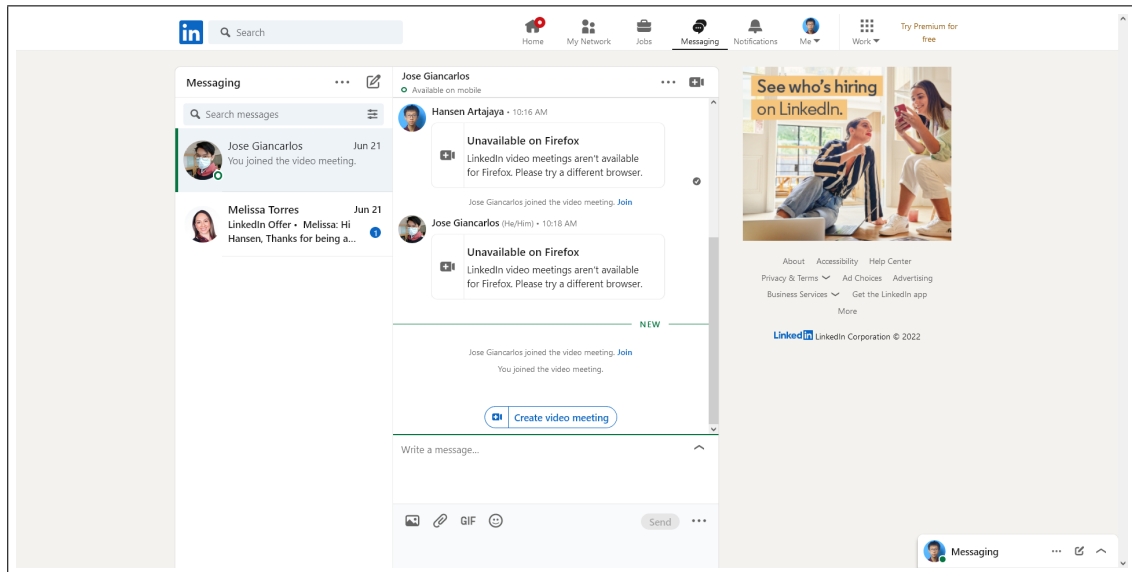


Figure 14: Messaging Page

- 3.21.1 Must be authorized only to logged in user.
- 3.21.2 Must be able to display all user that has message history.
- 3.21.3 Must be able to search connected user.
- 3.21.4 Must be able to send either text message, image message, unscheduled video call message, or scheduled video call message to connected user.
- 3.21.5 Must be able to display user that has message history in real time.
- 3.21.6 Must be able to display messages in real time.
- 3.21.7 Must be able to join video call message.