

# INSTAGRAM APP

C# Project

Built by:  
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# The Goal Of Our App

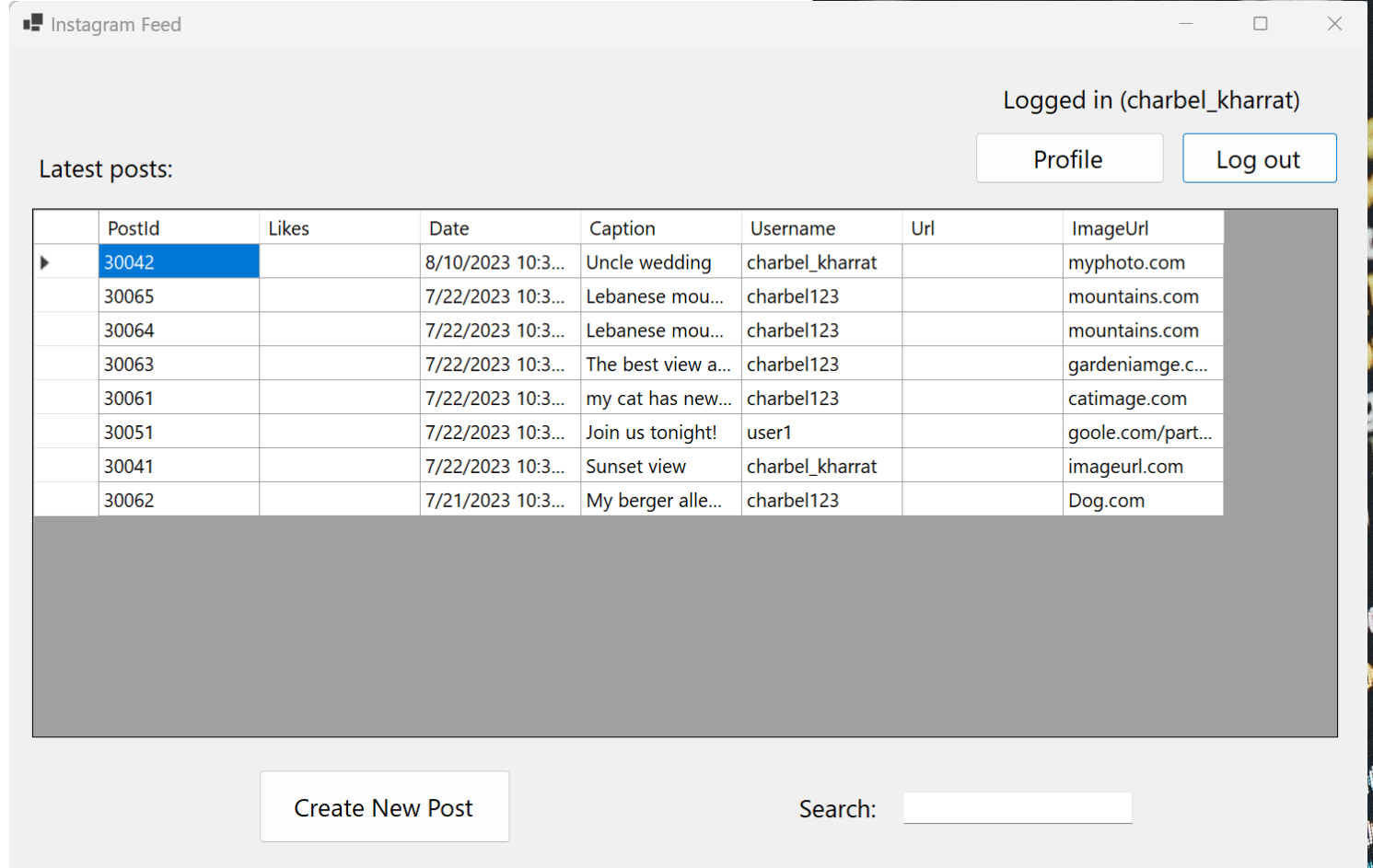
Our app is a similar app to Instagram with

- A feed form where we can see the latest posts shared by all users. The user can also search by keyword.
- A profile form where the user can see his posts, update them, delete them, or create new ones. He can also update his username and his email.
- A login form where the user logs in.
- A create account form to create new user accounts.
- A create new post form to create new posts.



# Instagram Feed Main Form

- In the main Instagram feed, we can see the latest posts.
- Also, there is an asynchronous search field, whenever the user inputs text in it, the posts are filtered by keyword dynamically.
- Profile button to go to the profile form.
- Log out/ Login button to log out or log in.
- Create new post to go to create new post form.

The screenshot shows a web application titled "Instagram Feed". In the top right corner, it says "Logged in (charbel\_kharrat)". Below this, there are two buttons: "Profile" and "Log out". The main content area is titled "Latest posts:" and contains a table with 8 columns: PostId, Likes, Date, Caption, Username, Url, and ImageUrl. The first row of the table is highlighted in blue. Below the table, there is a large grey rectangular area. At the bottom of the application, there is a "Create New Post" button on the left and a "Search:" label followed by a text input field on the right.

	PostId	Likes	Date	Caption	Username	Url	ImageUrl
▶	30042		8/10/2023 10:3...	Uncle wedding	charbel_kharrat		myphoto.com
	30065		7/22/2023 10:3...	Lebanese mou...	charbel123		mountains.com
	30064		7/22/2023 10:3...	Lebanese mou...	charbel123		mountains.com
	30063		7/22/2023 10:3...	The best view a...	charbel123		gardeniamge.c...
	30061		7/22/2023 10:3...	my cat has new...	charbel123		catimage.com
	30051		7/22/2023 10:3...	Join us tonight!	user1		goole.com/part...
	30041		7/22/2023 10:3...	Sunset view	charbel_kharrat		imageurl.com
	30062		7/21/2023 10:3...	My berger alle...	charbel123		Dog.com

# Create New Post Form

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When the user clicks on “Create New Post” button from the Instagram Feed

- He can input the image and the caption
- He has the option to “Post Now”, or “Schedule” (Combo box) to share the post on a future date that he can choose. (using date time picker)

The image displays two overlapping screenshots of a web application window titled "Create\_New\_Post\_Form".

The top window shows the "Post Now" option selected in the dropdown menu. It includes input fields for "Image Url:" and "Caption:", a "Post Now" dropdown menu, a blue "Create New Post" button, and a grey "Go back to home feed" button.

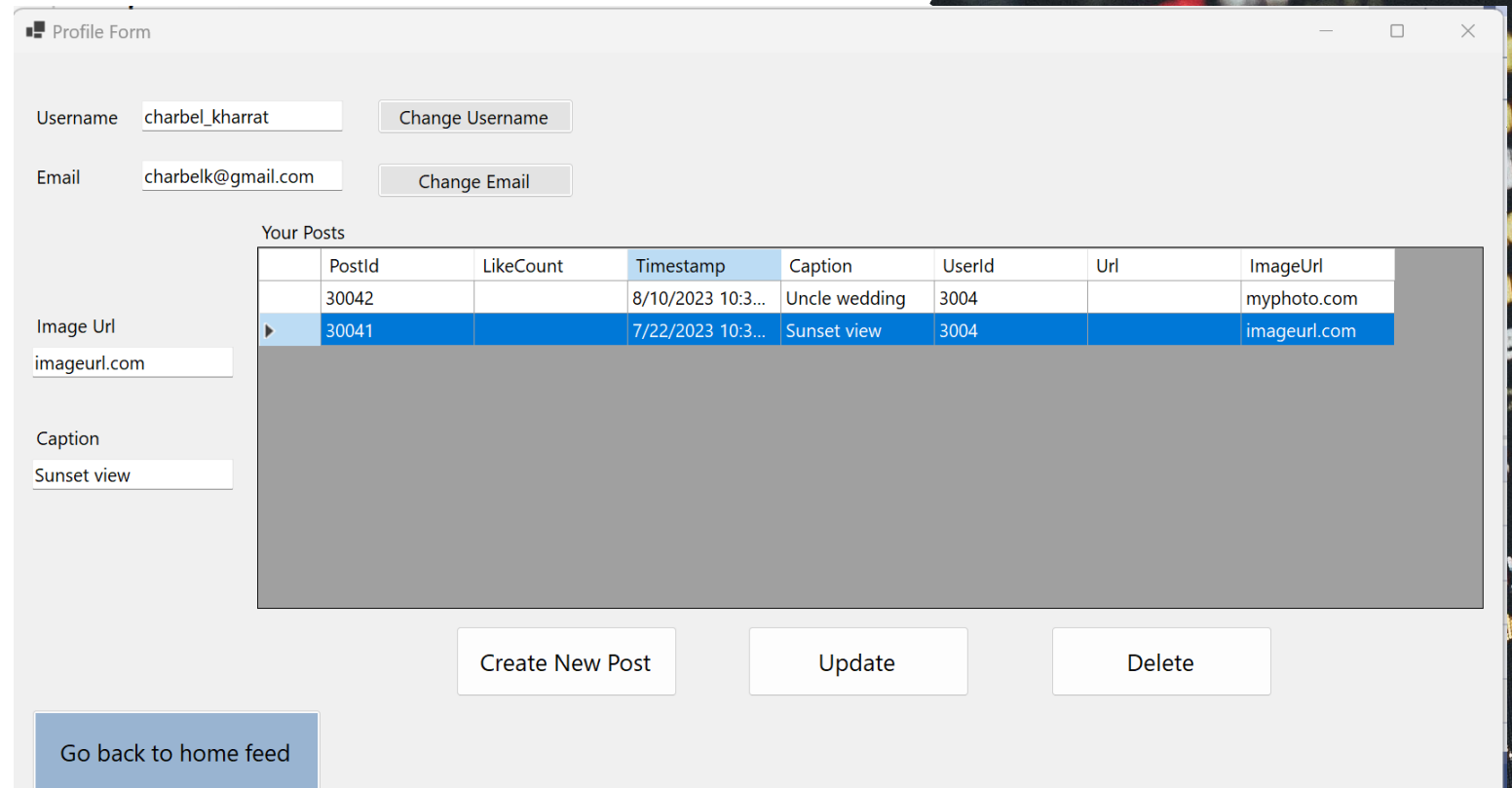
The bottom window shows the "Schedule" option selected in the dropdown menu. It includes input fields for "Image Url:" and "Caption:", a "Schedule" dropdown menu, a "Schedule Date:" field with a date picker set to "Saturday , July 22, 2023", a blue "Create New Post" button, a white "Cancel" button, and a grey "Go back to home feed" button.



# Profile Form

In the profile form the user can:

- Change his username
- Change his email
- Create new posts
- Update his previous posts
- Delete his previous posts
- All of the above using dynamic and asynchronous methods



The screenshot shows a web application interface for a user profile. The title is "Profile Form".

**User Information:**

- Username:** charbel\_kharrat (with a "Change Username" button)
- Email:** charbelk@gmail.com (with a "Change Email" button)

**Image Url:** imageurl.com

**Caption:** Sunset view

**Your Posts:**

	PostId	LikeCount	Timestamp	Caption	UserId	Url	ImageUrl
	30042		8/10/2023 10:3...	Uncle wedding	3004		myphoto.com
▶	30041		7/22/2023 10:3...	Sunset view	3004		imageurl.com

**Actions:**

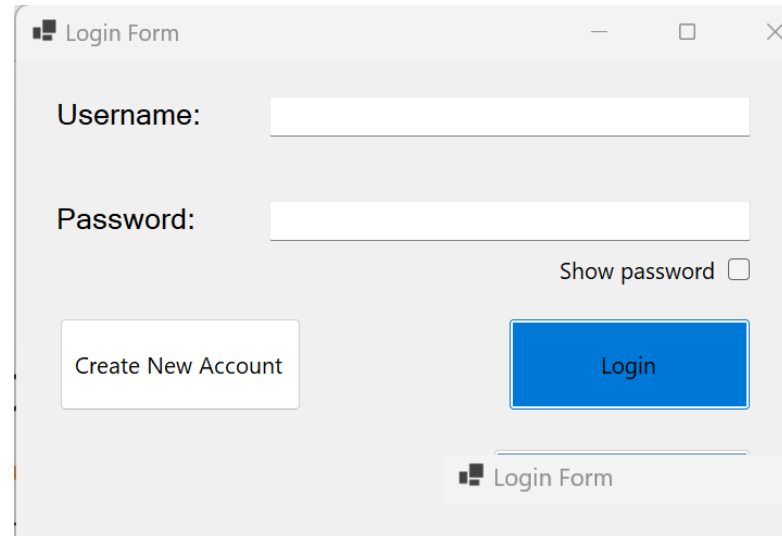
- Create New Post
- Update
- Delete

**Go back to home feed**

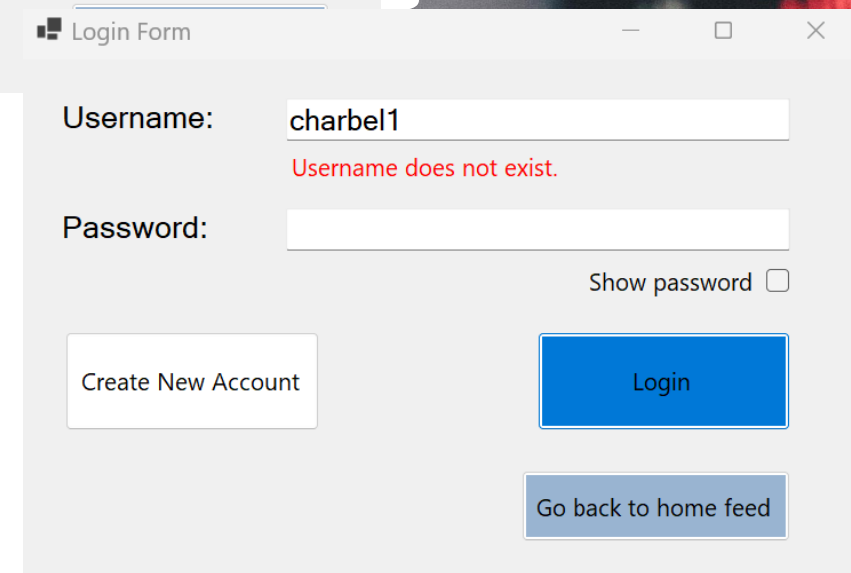
# Login Form

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- In the log in, the user inputs his username and password.
- We have built an asynchronous method that will check if the username exists in our database or not. The method will run every time the text in username text box changes.
- Show password checkbox to hide / unhide the password.
- The password will be verified with the hashed password stored in our database.



A screenshot of a web application window titled "Login Form". It contains two text input fields: "Username:" and "Password:". To the right of the password field is a checkbox labeled "Show password". Below the inputs are two buttons: "Create New Account" (white with a grey border) and "Login" (blue with white text).



A second screenshot of the "Login Form" window. The "Username:" field now contains the text "charbel1". Below the field, a red error message reads "Username does not exist.". The "Password:" field is empty. The "Show password" checkbox remains unchecked. The "Create New Account" and "Login" buttons are still present. A new button, "Go back to home feed", has appeared below the "Login" button.

# Create New Account Form

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In this form, the user creates a new account.

- Asynchronous and dynamic checking if the username already exists on Instagram.
- Dynamic checking if the email has the right format
- Dynamic checking if the password follows our guidelines.
- Also, the password will be encrypted using BCrypt in our database.

The image displays two overlapping screenshots of a web form titled "Create New Account".

The top screenshot shows the initial state of the form with three input fields: "Username:", "Email:", and "Password:". A "Create New Account" button is visible at the bottom right.

The bottom screenshot shows the form after user input and validation. The "Username" field contains "charbel\_kharrat" and displays the error message "Username already exists. Choose another one." in red. The "Email" field contains "charbel@gmail" and displays the error message "Please enter a valid email address (name@website.com)." in red. The "Password" field contains a masked password (represented by dots) and displays the error message "Your password should be at least 8 characters contain at least 1 upper letter 1 number 1 special character" in red. A "Show password" checkbox is located to the right of the password field. The "Create New Account" button remains at the bottom right.