

# **PAT2-SET1**

## **1. Dynamic Form Builder UI**

Create a simple UI where users can add different types of form inputs dynamically (e.g., text, email, password).

- Users select input type from a dropdown and click “Add”.
- JavaScript generates the form inputs dynamically and appends them to the form.
- Validate all inputs with appropriate regex depending on type.

## **2. Dark Mode Toggle**

Add a switch button that lets the user switch between light and dark themes for the page. Change background and text colors accordingly.

Hint: Use `.toggleClass("dark-mode")`.

## **3. Username Validation Using Regex to Restrict Special Characters**

Develop a form where the username input must only allow letters, numbers, underscores without special characters.

- Use regex `/^[a-zA-Z0-9_]{3,16}$/` to validate username length between 3 and 16 characters.
- Prevent form submission if invalid and display an error message.