INSTITUTE OF ACCOUNTANCY ARUSHA

DEPARTMENT OF INFORMATICS

BCS/BCSE/BIT

WEB DESIGN

ASSIGNMENT 1 INDIVIDUAL

ACADEMIC YEAR 2023/2024

DEADLINE : 01.01.2024

GENERAL INSTRUCTIONS:

Develop a dynamic webpage that features a user registration form with the following fields:

1. Full Name: Ensure that users enter their full name with appropriate validation for the format.

2. Registration Number: Use the format BCS-00-0000-0000. Implement JavaScript validation to ensure the registration number follows this format.

3. Sex: Include a dropdown menu for users to select their gender.

4. Email: Implement JavaScript validation to ensure a valid email format.

5. Region and Districts (Ajax): Use Ajax to dynamically load options for regions and districts. The selection of a region should dynamically update the available districts based on the chosen region.

6. Password: Implement secure password validation, including criteria such as minimum length, special characters, and a confirmation field.

7. Utilize jQuery to enhance the user interface of the website. Implement a carousel or image slider using jQuery to showcase featured content on the homepage.

8. Enhance the navigation menu by adding smooth scrolling effects or dropdown menus. Apply jQuery animations or transitions to improve the overall visual appeal of the website. Additionally, incorporate jQuery to simplify and optimize code for tasks such as event handling and DOM manipulation.

Ensure that appropriate feedback mechanisms are in place to inform users about any errors in the form. The form should not submit until all inputs are valid.

Additionally, as a mode of submission, you are required to host your project on an AWS instance. Create an Amazon EC2 instance, deploy your dynamic website, and provide the necessary details to this email **kevnps@gmail.com** i.e your **AWS url** for accessing and testing your hosted solution.