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Supplementary Mid-Semester Exam Questions

**Planning and designing a simple web application to validate a registration form with username, email, and password.**

Answers

(A.i). <!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

(A.ii). <title>Form Validator</title>

(A.iii).  <script src="script.js" defer></script>

</head>

<body>

(B.i).   <form id="registrationForm" onsubmit="return validateForm()">

<label for="username">Username:</label>

(B.ii).   <input type="text" id="username" name="username" required>

<label for="email">Email:</label>

(B.iii). <input type="email" id="email" name="email" required>

(B.iv).  <label for="password">Password:</label>

<input type="password" id="password" name="password" required>

(B.v).   <input type="submit" value="Submit">

</form>

</body>

</html>

***The JavaScript Section***

function validateForm() {

// (C.i) Getting relevant elements

var usernameInput = document.getElementById("username");

var emailInput = document.getElementById("email");

var passwordInput = document.getElementById("password");

// (C.ii) Validating username to be at least 3 characters long

if (usernameInput.value.length < 3) {

alert("Username must be at least three characters long.");

return false;

}

// (C.iii) Validating email using a simple pattern

var emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

if (!emailPattern.test(emailInput.value)) {

alert("Invalid email address.");

return false;

}

// (C.iv) Validating password length to be at least 6 characters long

if (passwordInput.value.length < 6) {

alert("Password must be at least six characters long.");

return false;

}

// (C.v) If all validations pass, submit the form

return true;

}