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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;  
}
```