



R2s ACADEMY

Front end

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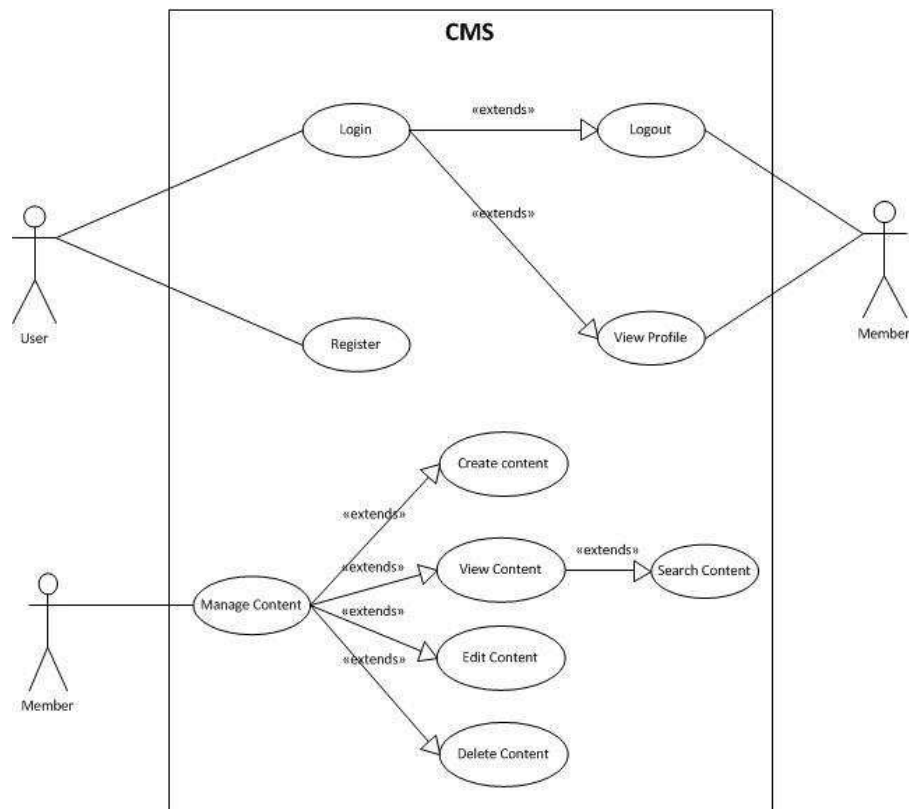
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Purpose of Assignments

Create a Web application bases on HTML, CSS, JavaScript, Ajax, JSP/Servlet to Manage Content System (CMS).

Provide adequate provisions for special web system. In this assignment, we will learn about a content management system. The use case Diagram as below here:



Business needs

A content management is a computer application that supports the creation and modification of digital content using a simple interface to abstract away low-level details unless required, usually supporting multiple users working in a collaborative environment.

CMS features vary widely. Most CMSes include Web-based publishing, format management, history editing and version control, indexing, search, and retrieval. By their nature, content management systems support the separation of content and presentation.

In this assignment, we will create a CMS web application bases on HTML, CSS, JavaScript, Ajax.

Working requirements

Working environment:

- Visual Code IDE,
- Internet connection,

Delivery:

Source code, deployment and testing evident packaged in a compress archive.

Technologies

The product implements one or more technology:

1. HTML & CSS
2. JavaScript & Ajax

Assignment Description

Assignment_01

HTML & CSS

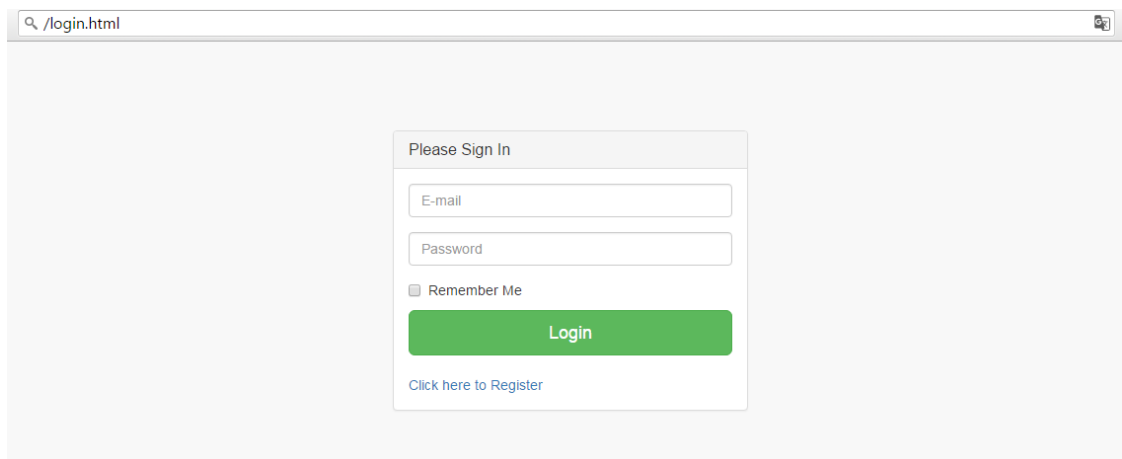
Objectives:

1. Understand and use HTML and CSS to code of practice website design sample.
2. The Bootstrap source code download includes the precompiled CSS, JavaScript, and font assets. You will learn to customize a Bootstrap template to build HTML page.

Assignment Specifications:

Start with this basic HTML template in attachment, and modify the pages as below:

✓ Login page

A screenshot of a web browser window showing a login page. The browser's address bar displays "/login.html". The page has a light gray background. In the center, there is a white rectangular box with a thin gray border. Inside this box, the text "Please Sign In" is at the top. Below it are two input fields: "E-mail" and "Password". Under the "Password" field is a checkbox labeled "Remember Me". At the bottom of the box is a green button with the text "Login". Below the button is a blue link that says "Click here to Register".

List item definition:

No	Items	Type	Size
1	Email	Email	50
2	Password	Password	50
3	Remember Me	Checkbox	1
4	Login	Button	NA
5	Click here to Register	Link	NA

✓ Register page

The screenshot shows a web browser window with the address bar displaying '/register.html'. The main content area contains a registration form with the following elements:

- Register** (Form Title)
-
-
-
-
-
- [Click here to Login](#)

List item definition:

No	Items	Type	Size
1	User name	Text	50
2	Email	Email	50
3	Password	Password	50
4	Re Password	Password	NA
5	Register	Button	NA
6	Click here to Login	Link	NA

✓ *Edit Profile*

The screenshot shows a CMS interface with the following components:

- CMS** (Page Title)
- Edit Profile** (Form Title)
- Profile Form Elements** (Form Section)
- First Name**:
- Last Name**:
- Email**:
- Phone**:
- Description**:
-
- Left Sidebar**: Search..., View contents, Form content
- Top Right**: User Profile, Logout

List item definition:

No	Items	Type	Size
1	First Name	Text	50
2	Last Name	Text	50
3	Email	Email	50
4	Phone	Text	NA
5	Description	Button	NA
6	Submit Button	Button	NA
7	Reset Button	Button	NA

✓ *Form content*

CMS

[View contents](#)
[Form content](#)

Add Content

Content Form Elements

Title

Brief

Content

List item definition:

No	Items	Type	Size
1	Title	Text	50
2	Brief	textarea	NA
3	Content	textarea	NA

✓ View contents

CMS

[View contents](#)
[Form content](#)

View Content

View Content List

#	Title	Brief	Created Date
1	Lorem ipsum dolor sit amet	Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.	31/08/2016 12:03
2	Vestibulum tincidunt est vitae	Aliquam ornare lacus adipiscing, posuere lectus et, fringilla augue.	31/08/2016 13:13
3	Aliquam ornare lacus adipiscing	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum tincidunt est vitae ultrices accumsan.	01/09/2016 15:09

Requirement:

- All buttons have background color is green.
- Placeholder text in inputs has a light gray color. You need defined the placeholder for input items same above screen.
- Add a new file MyStyle.css to customize your screen, it will base on convention of CSS style.

Assignment_02

JavaScript, Ajax & JQuery

Objectives:

1. jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. In this assignment, we will use jQuery to validate data from the HTML form.
2. AJAX is about updating parts of a web page, without reloading the whole page. We will have some basic understanding when use Ajax in left menu, when click to the item, this will navigate to corresponding HTML page.

Assignment Specifications:

Form validation normally used to occur at the server, after the client had entered all the necessary data and then pressed the Submit button. If the data entered by a client was incorrect or was simply missing, the server would have to send all the data back to the client and request that the form be resubmitted with correct information. This was really a lengthy process which used to put a lot of burden on the server.

JavaScript provides a way to validate form's data on the client's computer before sending it to the web server. Form validation generally performs two functions.

In this assignment, we will validate data in the list item definition:

✓ Login Page Screen:

No	Items	Type	Required	Min length	Max length
1	Email	Text	√	5	50
2	Password	Password	√	8	30

✓ Register Page screen

No	Items	Type	Required	Min length	Max length
1	User name	Text	√	3	30
2	Email	Email	√	5	NA
3	Password	Password	√	8	30
4	Re Password	Password	√	8	30

✓ Edit Profile Page:

No	Items	Type	Required	Min length	Max length
1	First Name	Text	√	3	30
2	Last Name	Text	√	3	30
3	Phone	Text	√	9	13
4	Description	TextArea	NA	NA	200

✓ Add Content Page:

Requirement:

- The form must be checked to make sure all the mandatory fields are filled in the input tag. It would require just a loop through each field in the form and check for data.
- The data that is entered must be checked for correct form and value. Your code must include appropriate logic to test correctness of data.
- Show evidence of loading when click left menu
- Use Ajax to load View Content page and update information at Edit Profile.

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The End!