



MSc in Electronic and Computer Technology

Web Application Development (EE417)

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Assignment 2

Introduction:

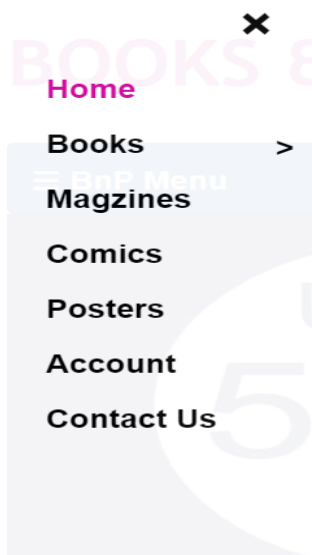
The current web application developed using HTML and CSS, the theme of my application is a website which sells books and posters. It is developed in keeping in mind of the all the age groups, there are some kids favourites pages in the application. This application will be further developed in the coming weeks to build a full-fledged web application. All the links that are working are indicated in the readme file. In the first week the web application has been developed by using only html and css and for the second assignment javascript is added to the same application to make it more responsive and functional as real website. Some of the features like dynamic menu bar, form validation and displaying the form details, and few events have been introduced into the web application. This report contains the place of the code and the function of the those features introduced.

1.Dynamic Menu Bar:

A hamburger menu bar has been created which replaces the traditional menu bar I first assignment. This menu bar is on the left side of the navigation bar with name “BnP Menu”. Java script is used for this application which and the script is in the file “menu.js” in the javascript folder. Menu bar has two layers one is for the navigation bar items and the other layer is for the dropdown content of the books tab. The menu bar has been styled using css and the javascript file is added to the index.html file at the top of the html code inside the head. Id’s are used for the menu bar in the html file code which is “sidebar” for both the layers. The same menu bar is added to all the pages, in some pages only one layer menu bar is created with dropdown content. Below is the code of the for this feature along with the result.

```
//function to open the menu bar
function openNav() {
    document.getElementById("mySidebar").style.width = "200px";
    document.getElementById("navbar").style.marginLeft = "0";
}

//function to close the menu bar
function closeNav() {
    document.getElementById("mySidebar").style.width = "0";
    document.getElementById("navbar").style.marginLeft= "0";
}
```



First Layer Menu



Second Layer Menu

2. Web Forms:

Two HTML webforms have been created with more than 10 input fields and with different forms of input like text, email, and digits for phone number. One of the forms is for account registration which is found in register.html file and the other one is for query form which can be found in contact.html. The forms have been created using html and CSS and the javascript is used for suggestion and validation which are provided in the form of alerts. There are two javascript files for two forms for registration “valid.js” is used and for the query form “validation.js” is used. Both of the html files have the javascript files included in the head section. When ever you click on the input fields suggestions will be made for that field, and when the submit button is clicked it shows the validation errors in the form of an alert. If all the fields are properly filled out then the submit button can be clicked to submit the details entered in the form and an alert will be displayed if the form submission is successful with the proper message. Below is the image of the form with all the suggest displayed. If those suggestions are not met, then the form will not be submitted and the errors will be shown in the form of an alert. A sample of the code for the suggestion of the first name and the alert for the first name is shown below which is in valid.js file. similarly there are suggestions for all the fields and also alerts if email and phone numbers are invalid.

```
function suggest()
{
    var fsugg = document.getElementById("fsug");
    fsugg.innerHTML = "<strong>Ex: John</strong>";}
```

```

if(fname=="")
{
    alert("First name must not be empty"+gender);
    return false;
}

```

First Name*

Ex: John

Last Name*

Ex: Doe

Email*

Ex: johndoe@gmail.com

Password*

Password must be min. of 8 characters long

Confirm Password*

Gender

Date of Birth*

Address*

Mobile/Telephone*

Phone Number must be all digits

Add BnP Card to Account* ☐ Yes ☐ No

Submit

Validation form

Full Name*

Ex: John Doe

Email*

Ex: johndoe@gmail.com

Type of Query*

Details*

Please enter your Query Details

Submit

Query Form

3. Data in Web form:

For the registration form in the above discussed above, the data for all the fields is saved into the local storage of the browser and the contents are displayed in the form of the table. The contents are displayed when the button is clicked to display the users. This button is at the bottom center in the same page after the submit button. The code used for this is in the “valid.js” file which is used above for validation, and is also used for saving the data. The data is stored in the form of a javascript object and is inserted into the the table using the function table() in the javascript file. The validation of the email is done with this table, if the same email is used to create account once again it alerts the user. Below is the picture of the saved data of the form.

Display Users

Firstname	Lastname	Email Id	Password	Gender	DOB	Address	Tel	BnP Card
Vamshi	Poreddy	vamshidhar@gmail.com	*****	Male	2022-02-01	dublin	147852	Yes
vam	fei	fhe@gmail.com	*****	Prefer not to say	2022-02-01	dub	741	Yes

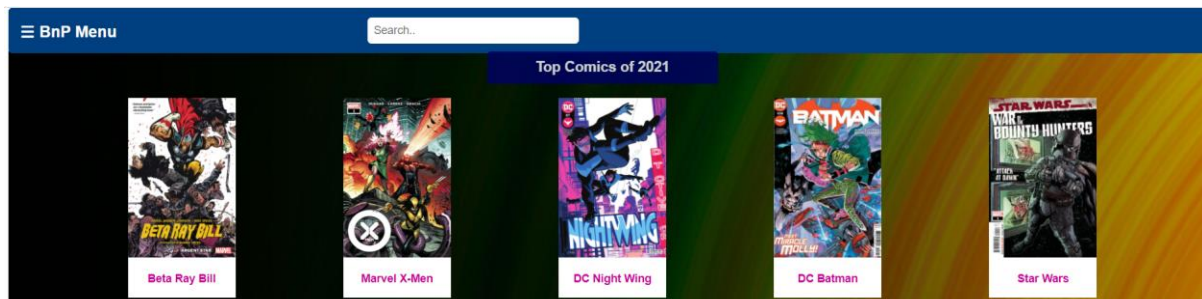
The data collected form the form is first sent into a javascript object and then it is converted into JSON string using the “localStorage.setItem('users', JSON.stringify(data));” and saved into the local storage. It is afterwards parsed into javascript object and inserted into the table. Please find the entire code for this feature in the valid.js file.

4.Events:

Some events have been introduced into the web application to make it more effective and functional. One of the event is the sticky navigation bar, its in the name when you scroll down the navigation bar come to the top of the page and can be accessed any where from the page. Below javascript is used for the sticky navigation bar.

```
<script>
window.onscroll = function() {myFunction()};
var navbar = document.getElementById("navbar");
var sticky = navbar.offsetTop;
function myFunction() {
    if (window.pageYOffset >= sticky) {
        navbar.classList.add("sticky")
    } else {
        navbar.classList.remove("sticky");
    }
}
</script>
```

“navbar” in the above code is the ID of the navigation bar, below is the image of the navigation bar taken at the bottom of the index.html page. Some of the pages are not introduced with navigation bar as it does not suit them because of the less page size. The javascript code is written at the bottom of the html page after the body.



The other event is in the index.html file or the home page, below the sale banner. There is a button with the name of the website which when clicked changes the text above it. It is written using JQuery and the code for this can be found in the top of the index.html file. The images of the text before and after the button click are as below.

Hello! Welcome to Biggest Collection of Books

Books&Posters

What You waiting for browse for Your Favorite Books

Books&Posters

And the other event is window onload which can be seen in magazines.html file, when this page is opened the counter will be started which shows the different types of magazines in circulation. The code for this is written in the magazine.html page after the body tag. Below is the code and the image of the event.

```
<script>
window.onload = function(){

    var count = document.getElementById("counters");
    var i=0;
    var time = setInterval(function(){count.innerHTML= i++ + "+";
        if(i==365)
        {
            clearInterval(time);}},50);
}</script>
```

45+

Types of Magzines in circulation right now..

The count reaches to the maximum of 364 based on the above code.