

Khulna University of Engineering and Technology

Department of Computer Science & Engineering



“HACK(Hardware Acceleration Club of KUET)”

Internet Programming Laboratory
Course No – CSE 2200

Developed by:

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Acknowledgement

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I want to thank our seniors too for their useful advices during the project.

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Introduction:

In today's life, there are immense importances of web site development . In this era of digital revolution websites plays vital role in enhancing connection among the people of the world. The websites has become important resource and attached in many aspects of our life such as education, employment, government, commerce, health care and more. Now a days, websites becomes an interactive platform that is used for receiving information as well as providing information.

ASP.NET is a development framework for building web pages and web sites with HTML, CSS, Javascript, AJAX and Server Scripting. It's a sophisticated and powerful web development framework. It's a server-side technology for developing web application based on the Microsoft .NET Framework.

Objectives:

- ✓ I have developed a web site for Hardware Acceleration Club of KUET ("HACK")
- ✓ This website will help the members of this lab more.
- ✓ And the lab activities will be more dynamic

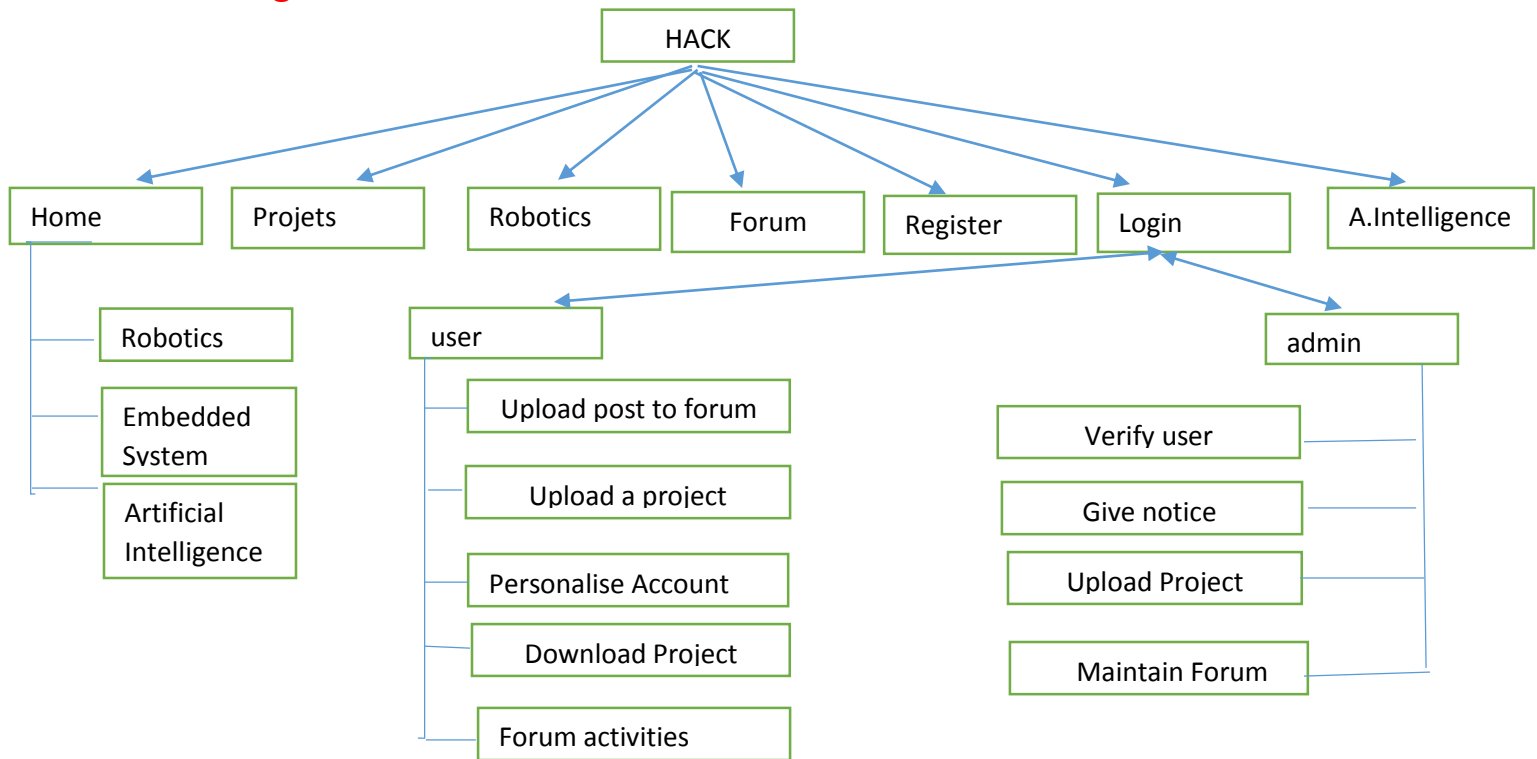
Design and Functionality:

HACK website is designed both for the feasibility of the user and the admin. This website has three interfaces : one for user and another one for admin and the other for the visitors.

Table of Contents:

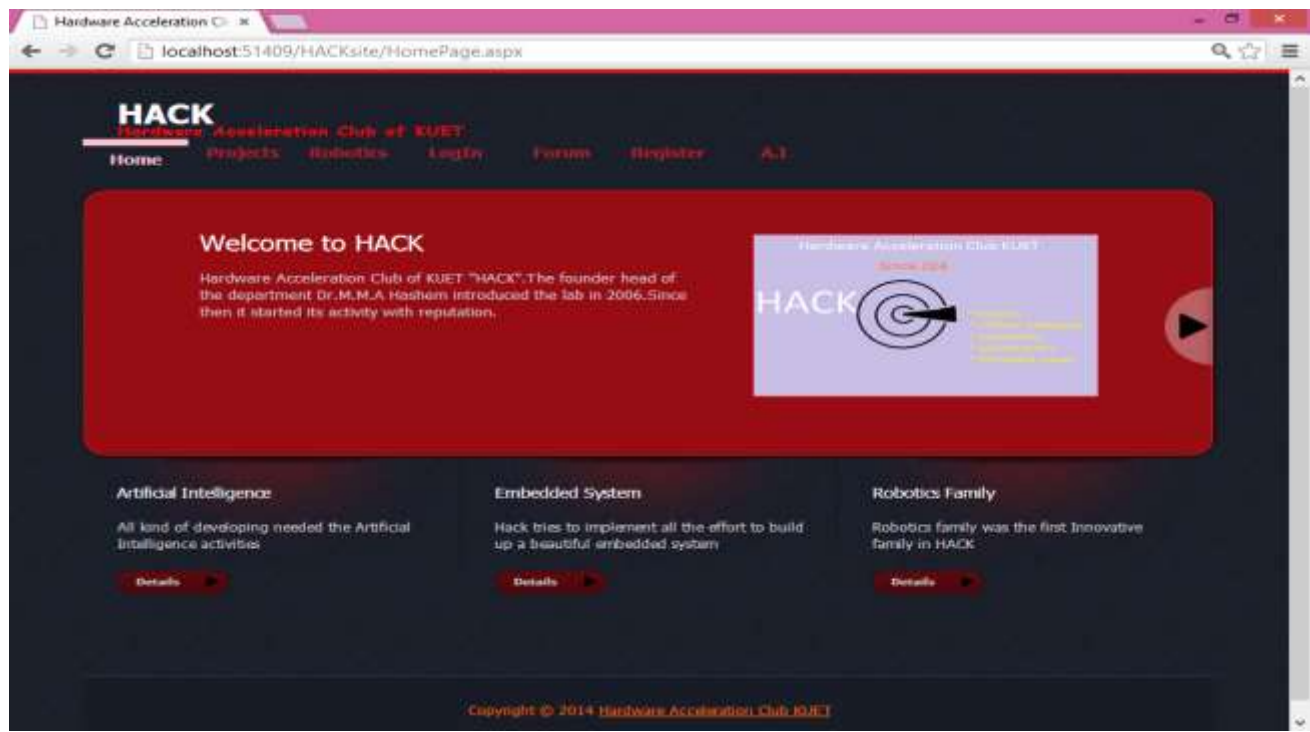
- i. Tree diagram of the website
- ii. Graphical user interface overview
- iii. Graphical admin interface overview
- iv. Graphical user interface overview
- v. Database overview

Tree Diagram of the website



Graphical Representation of the website:

HomePage:



Registration:

A screenshot of the registration form on the HACK website. The form is titled 'Enter your Information Here' and contains several input fields and dropdown menus. The fields are filled with the following information: Roll (1107001), Name (Shubhasis Karmakar), email (shubhasis@gmail.com), Department (CSE), Forum (Robotics), Password (masked with dots), Confirm Password (masked with dots), Security Question (What is favourite game), and Security Q/answer (cricket). A 'Submit' button is located at the bottom of the form. Below the button, a green message states 'UserId is available'.

LogIn:

HACK
Hardware Acceleration Club of KUET

Enter your Information Here

Roll

Password

☐ remember me

[Forget your Password ?](#)

PasswordRecovery:

Enter your Information Here

Roll

SecurityQuestion

Answer

password

UserMainPage:

Contact Redox - Free CSS x


localhost:51409/HACKsite/UserMainPage.aspx

HACK
Hardware Acceleration Club of KUET

Home Projects Account Robotics Forum **UserPage** Logout

Your Information are shown below

Tanvir



Robotics

Write something to your forum

No file chosen

ProjectName

Project Image No file chosen

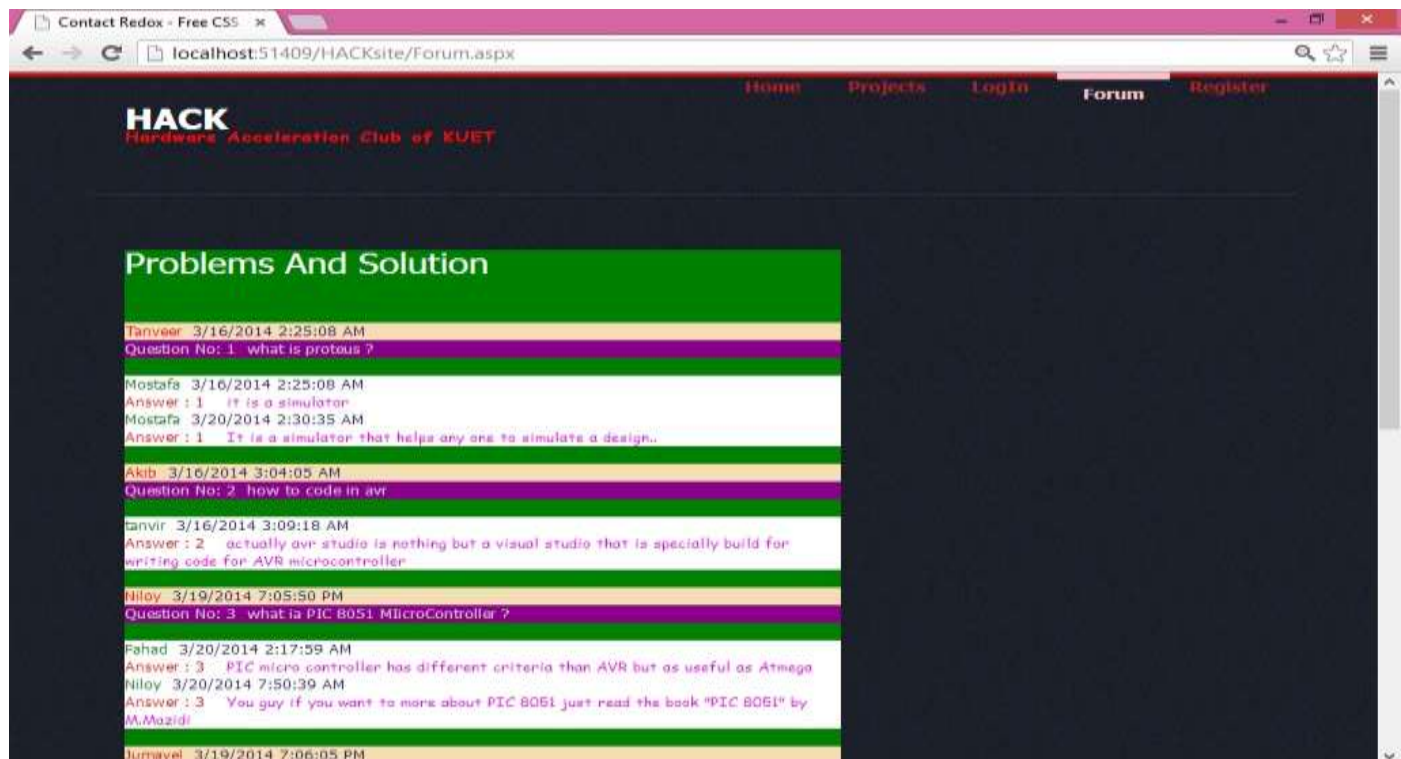
Project zip File No file chosen

Latest Notice

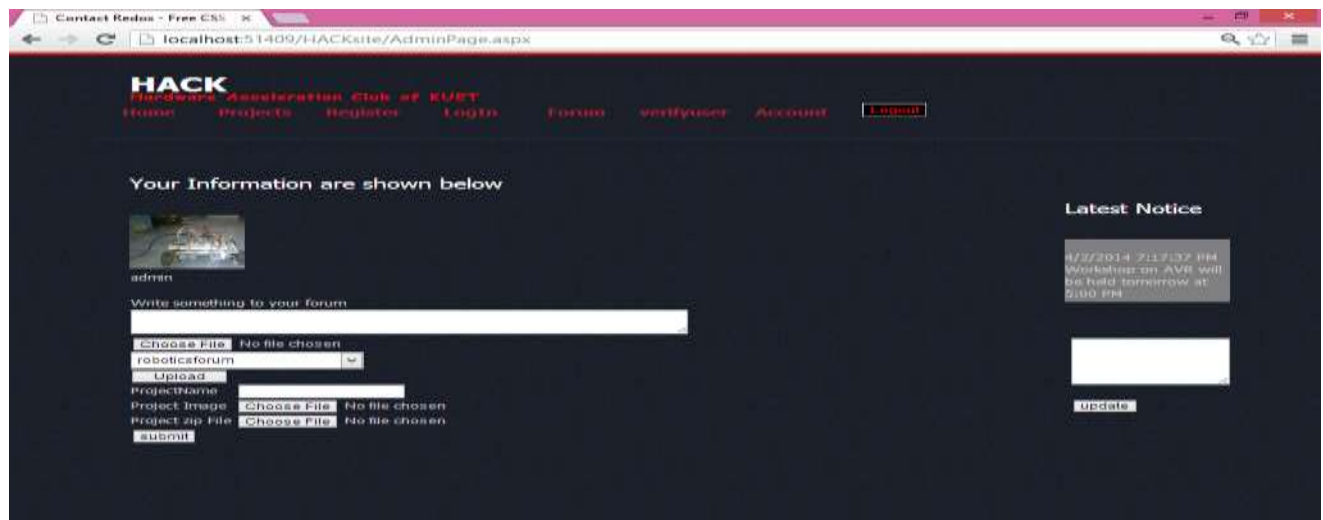
4/2/2014 7:17:37 PM

Workshop on AVR will be held tomorrow at 5:00 PM

Forum:



AdminPage:



Program/Web Design:

I have used several aspx and aspx.cs codes for the development of my project. Some important aspx and aspx.cs design are mentioned below:

- **HomePage.aspx:** A web page to display the main page of my site
- **UserMainPage.aspx:** The user Page which deals with the users of my site
- **AdminPage.aspx:** The page renders the service to the administrator to maintain the website
- **Registration.aspx:** The page is for registration

- **ProjectPage.aspx.cs:** In this page works for downloading any project from the web site, by clicking a button the downloading process begin:

```
protected void Button1_Click(object sender, EventArgs e)
{
    int projectId = Int32.Parse(pid.Text);
    using (SqlConnection Con = new
SqlConnection(ConfigurationManager.ConnectionStrings["hackdatabaseConnectionString1"].
ToString()))
    {
        Con.Open();

        SqlCommand com = new SqlCommand("SELECT [Id],[projectfilename] FROM
project where [Id]='" + projectId + "'", Con);
        SqlDataReader Reader = com.ExecuteReader();
        Reader.Read();
        {
            string FileName = Reader["projectfilename"].ToString();
            string path = Server.MapPath("~/");
            path += "ProjectFile\\" + FileName;
            FileInfo file = new FileInfo(path);
            if (file.Exists)
            {
                Response.Clear();
                Response.ClearHeaders();
                Response.ClearContent();
                Response.AddHeader("Content-Disposition", "attachment; filename="
+ file.Name);

                Response.AddHeader("Content-Length", file.Length.ToString());
                Response.Flush();
                Response.TransmitFile(file.FullName);
                Response.End();
            }
        }
    }
}
```

Database Overview: For my project I have implemented a sql database to for saving my tutorials,problems ,pics,contest and the information of the users and admin.Below the figures of the database table are given below:

HACK table: This table deals with all the information of the

	Name	Data Type	Allow Nulls
PK	roll	int	<input type="checkbox"/>
	name	varchar(10)	<input type="checkbox"/>
	email	varchar(50)	<input type="checkbox"/>
	department	varchar(10)	<input type="checkbox"/>
	forum	varchar(10)	<input type="checkbox"/>
	password	varchar(8)	<input type="checkbox"/>
	verified	varchar(2)	<input type="checkbox"/>
	securityques	varchar(50)	<input type="checkbox"/>
	securityqans	varchar(50)	<input type="checkbox"/>

roboticsforum: This table maintains the robotics forum page data

	Name	Data Type	Allow Nulls
PK	Id	int	<input type="checkbox"/>
	name	varchar(50)	<input type="checkbox"/>
	post	varchar(500)	<input type="checkbox"/>
	imgname	varchar(50)	<input type="checkbox"/>
	timedate	datetime	<input type="checkbox"/>
	roll	int	<input type="checkbox"/>
	personimgname	varchar(50)	<input type="checkbox"/>

Conclusion:

It had been a challenging task to develop an website on visual studio in asp.net.I was focused to my objectives and as a result of fact i managed to complete the project. My primary objective was to show a useful dynamic web site to maintain the basic activities of HACK. I was able to fulfill this task with user friendly interfaces. This website will be useful for users to keep to share their knowledge and resources to the other members of HACK.

References:

1. <http://www.w3schools.com/>
2. <http://www.asp.net/>
3. <http://stackoverflow.com/>
4. <https://api.jquery.com/category/ajax/>
5. <http://html.net/tutorials/asp/>
6. <http://www.tizag.com/aspTutorial/>

