

# **Department of Information Science and Engineering**



**A Minor Project Report On**

**“Web Application For Co-curricular NIE”**

**IS6C06**

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**The National Institute of Engineering**

**(Autonomous Institution under Visvesvaraya Technological University)**

**MYSORE – 570008**

**2022-23**

**The National Institute of Engineering**  
**Department of Information Science and Engineering**

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**Certificate**

Certifies that the minor project titled “**Web Application for Co-curricular NIE**” is presented by **ANANTHA BHARATH, MAHESH S, MOHAN KUMAR KALAMANI, YASHWANTH K S** bearing USN **4NI20IS017, 4NI20IS058, 4NI20IS064, 4NI20IS127** in partial fulfilment for the requirements of the sixth semester BE in Information Science & Engineering prescribed by The National Institute of Engineering, Autonomous Institution under Visvesvaraya Technological University, Belagavi, It is certified that all correction/suggestions indicated for Internal Assessment have been incorporated. The project report has been approved as it satisfies the academic requirements in respect of the Minor Project prescribed for the sixth semester.

Signature of Guide  
Ashwini M

Signature of HOD  
Dr.Girish

Signature of the Principal  
Dr. Rohini Nagapadma

## Chapter 4

# SYSTEM DESIGN AND ARCHITECTURE

### 4.1 System Design

Software design sets at the technical kernel of the software engineering process and is applied regardless of the development paradigm and area of application. Design is the first step in the development phase for any engineered product or system. The designer's goal is to produce a model or representation of an entity that will later be built.

System design is the first of the three technical activities- design, code and test that is required to build and verify software. The importance can be stated with a single word "Quality". Design is the place where quality is fostered in software development. Design provides us with representations of software that can assess for quality. Design is the only way that we can accurately translate a customer's view into a finished software product or system. System design serves as a foundation for all the software engineering steps that follow. Without a strong design we risk building an unstable system- one that will be difficult to test, one whose quality cannot be assessed until the last stage.

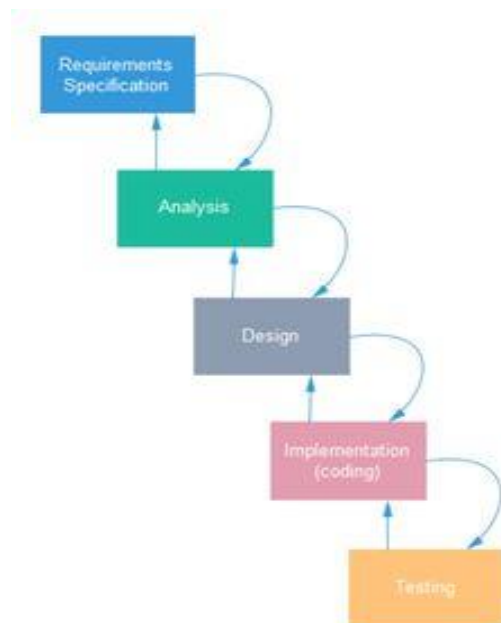


Fig 4.1 System design

### 4.2 Database Design

The data in the system has to be stored and retrieved from database. Designing the database is part of system design. Data elements and data structures to be stored have been identified at analysis stage. They are structured and put together to design the data storage and retrieval system. A database is a collection of interrelated data stored with minimum redundancy to serve many users quickly and efficiently. The general objective is to make database access easy, quick, inexpensive and flexible for the user. Database used in this system is MySql which is a relational database management system.

The database structure is organized into physical files optimized for speed. The logical data model, with objects such as data tables, views, rows, and columns, offers a flexible programming environment.

### 4.3 Database schema

MySQL database is being used in this project, it is basically used here to store the information about the students that have been signed up and the information of the faculty and the respective courses they teach, their contact information. Students who are not signed in can sign up and this info will be stored in the database by verifying their college provided email address by the otp sent to the mail address of the college that is validated.

Here are the schema of the tables used in the project, the tables are namely sign in/sign up table and contact fetcher table.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	<b>id</b>	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/> 2	<b>userName</b>	varchar(150)	latin1_swedish_ci		Yes	NULL			Change  Drop  More
<input type="checkbox"/> 3	<b>emailId</b>	varchar(150)	latin1_swedish_ci		Yes	NULL			Change  Drop  More
<input type="checkbox"/> 4	<b>ContactNumber</b>	bigint(12)			Yes	NULL			Change  Drop  More
<input type="checkbox"/> 5	<b>userPassword</b>	varchar(200)	latin1_swedish_ci		Yes	NULL			Change  Drop  More
<input type="checkbox"/> 6	<b>regDate</b>	timestamp			No	current_timestamp()			Change  Drop  More
<input type="checkbox"/> 7	<b>emailOtp</b>	int(6)			Yes	NULL			Change  Drop  More
<input type="checkbox"/> 8	<b>isEmailVerify</b>	int(1)			Yes	NULL			Change  Drop  More
<input type="checkbox"/> 9	<b>lastUpdationDate</b>	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP()	Change  Drop  More

Fig 4.3.1 Sign in/Sign up table schema.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	<b>id</b>	varchar(30)	utf8_unicode_ci		No	None			Change  Drop  More
<input type="checkbox"/> 2	<b>name</b>	varchar(30)	utf8_unicode_ci		No	None			Change  Drop  More
<input type="checkbox"/> 3	<b>course</b>	varchar(30)	utf8_unicode_ci		No	None			Change  Drop  More
<input type="checkbox"/> 4	<b>email</b>	varchar(50)	utf8_unicode_ci		No	None			Change  Drop  More
<input type="checkbox"/> 5	<b>phone</b>	varchar(30)	utf8_unicode_ci		No	None			Change  Drop  More

Fig 4.3.2 Contact Fetcher table schema.

### 4.4 UI Design

The user can login to the page and view the page. It contains the navbar which contains the Home page, Sports Page, Placements page, cultural activities page and the contact us page. The Home page contains the Student Activities that is it contains information about the placement and training department, cultural activities and Sports activities. The Sports page contains the details of recent sports and the Accolades by Students and it contains the attendance form by which students can the email to the faculty that they have participated in the sports. The Placement and Training page contains the details of Placement related Activities and it contains the attendance form by which students can the email to the faculty that they have participated in the Placement activities. And it is same for the cultural activities. And the Attendance form the sign up page which contains the sign up page through which only NIE students can send the email and this can provide a secure connection. And if we login to the sign up page it contains the course id by which we can get the faculty email-id and we can copy the email id and the send the email to respective faculty that we have participated in

#### 4.6 Sequence Diagram

The student accesses the website and navigates to the sign-up page. The server opens the sign-up page, and the student clicks on the sign-up button. The student is prompted to enter a password for the specified email. Upon entering the password, the server displays the login page. The student enters their username and password on the login page. The server verifies the username and password for authentication. If the username and password match, the attendance form is displayed. The attendance details entered by the student are stored in the database. The server prompts the student with a security question. The student provides the answer to the security question. The server verifies the security question answer. Upon successful verification, the attendance details are displayed. The student has the option to log out of the system.

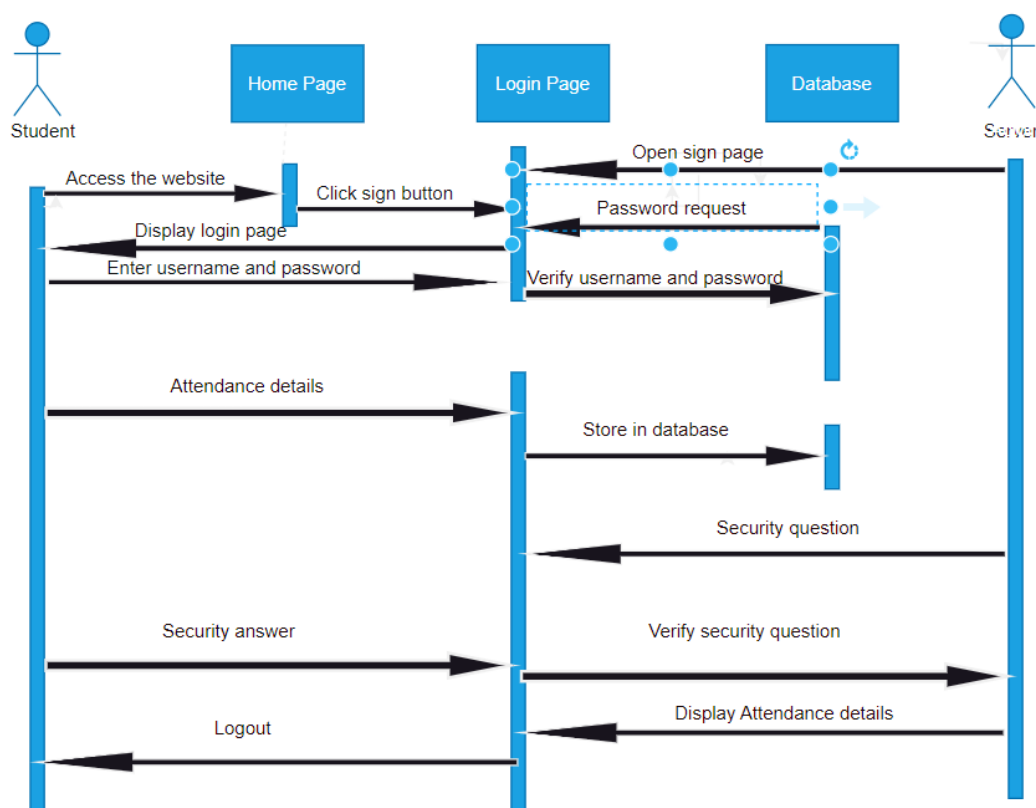


Fig 4.6 Sequence Diagram

#### 4.7 Client Server Architecture

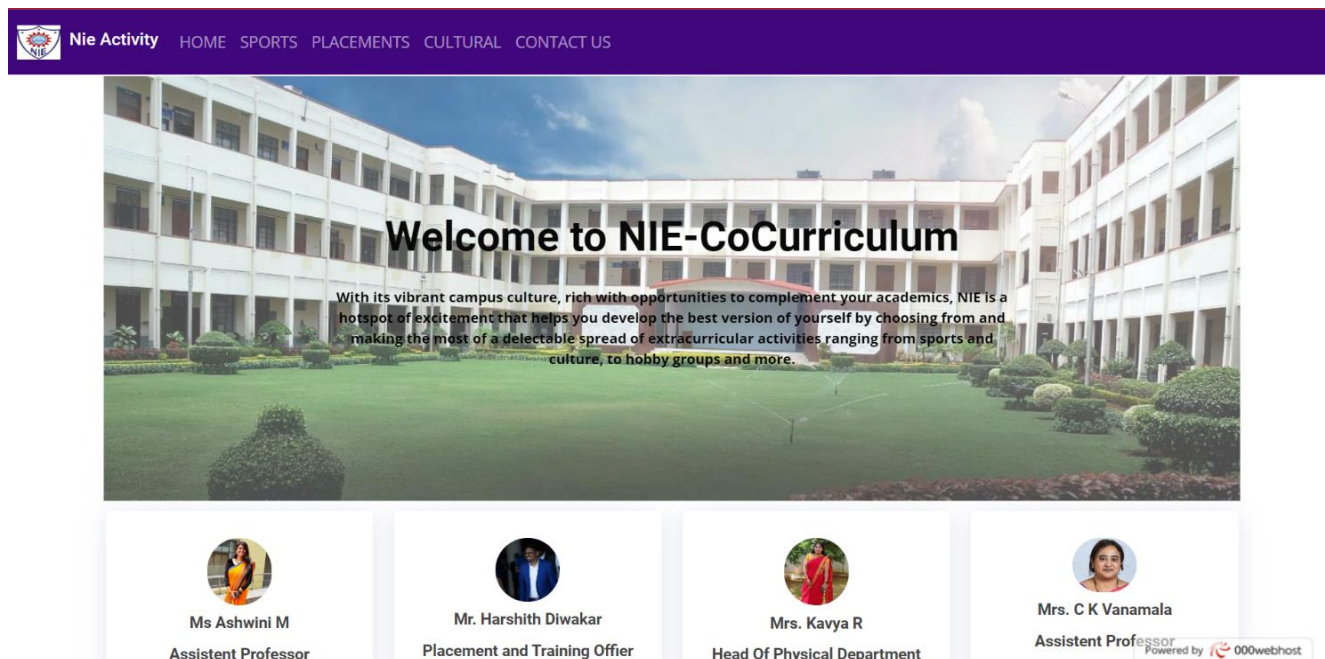
The client-server architecture is the most common distributed system architecture which decomposes the system into two major subsystems or logical processes. In this project the students are the clients who sign in the web application although the home page isn't required to signed in for viewing, the students should sign in for their attends purpose when they do they are able to obtain the information about the related faculty for application of the attendance. Hence they perform as a client and the web application as a server which provides the client with services based on their requests. hence client server architecture is used in this project.



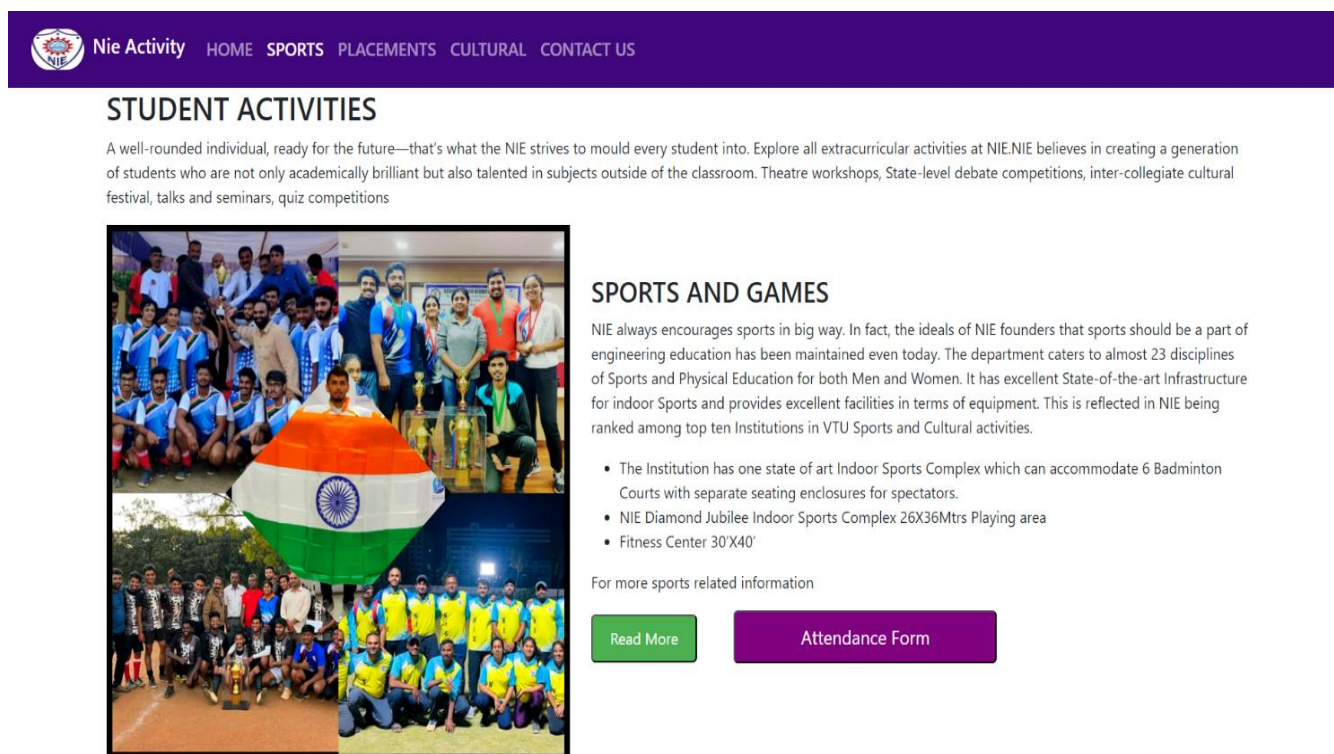
## Chapter 7

# RESULTS OF WEB PAGE


### 7.1 Home Page



### 7.2 Sports Activities



## 7.3 Placement and Training Activities




Nie Activity

[HOME](#)
[SPORTS](#)
[PLACEMENTS](#)
[CULTURAL](#)
[CONTACT US](#)


[Read More](#)
[Attendance Form](#)

## 7.4 Cultural Activities



Nie Activity

[HOME](#)
[SPORTS](#)
[PLACEMENTS](#)
[CULTURAL](#)
[CONTACT US](#)


[Read More](#)
[Attendance Form](#)

## 7.5 Sign Up Page


Sign Up	Verify OTP	Sign in
<p><i>Fill out this form for registration</i></p> <p>Full Name</p> <input type="text" value="yashwanth ks"/>	<p>Email OTP</p> <input type="text"/> <input type="button" value="Verify"/>	<p><i>Fill out this form to start login session</i></p> <p>Email Address</p> <input type="text" value="yashwanthks586@gmail.com"/>
<p>Email Address</p> <input type="text" value="2020ee_yashwanthks_b@nie.ac.in"/>		<p>Password</p> <input type="password" value="*****"/>
<p>Contact Number</p> <input type="text" value="8861668645"/>		<p>Resend OTP</p> <input type="button" value="Sign Up"/>
<p>Password</p> <input type="password" value="*****"/>		
<p>Resend OTP</p> <input type="button" value="Sign Up"/>		<p>Not Signup yet ? <a href="#">Signup here</a></p>
<p>Already have an account? <a href="#">Login here</a></p>		


## 7.6 Contact Details

Contact Fetcher	Contact Details	
<p>COURSE ID:</p> <input type="text" value="IS6C01"/> <input type="button" value="Fetch Contact"/>	<p><b>ID:</b> IS6C01</p> <p><b>Name:</b> B N KIRAN</p> <p><b>Course:</b> SOFTWARE ARCHITECTURE</p> <p><b>Email:</b> bnkiran@nie.ac.in</p> <p><b>Phone:</b> 8212480475</p> <p><input type="button" value="Copy Email"/></p> <p><input type="button" value="Next page"/></p>	<p><b>Recipient:</b> <input type="text" value="bnkiran@nie.ac.in"/></p> <p><b>Subject:</b> <input type="text" value="attendance"/></p> <p><b>Reasons:</b> <input type="text" value="DISTRICT LEVEL SPORTS COMPETITION"/></p> <p><input type="button" value="Send Email"/></p>



## 7.7 Contact Us

 Nie Activity HOME SPORTS PLACEMENTS CULTURAL CONTACT US

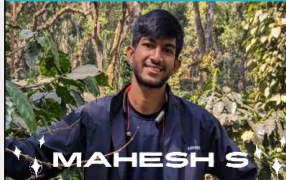


**Yashwanth ks**

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Phone: 8861668645

Hard work is the key to achieving success and reaching your goals. It involves putting in consistent effort, dedication, and perseverance towards a particular task or objective.




**Mahesh S**

Email: smahesh.sdm@gmail.com

Phone: 7975690348

Smart work involves strategically leveraging your time, resources, and skills to achieve optimal results. It focuses on efficiency, productivity, and finding innovative solutions to accomplish tasks more effectively.




**Anantha Bharath**

Email: 2020is\_anathabharath\_A@nie.ac.in

Phone: 9392422614

Leadership is the ability to inspire and guide a team towards a shared vision, motivating individuals to reach their full potential and achieve collective goals.



**Mohan Kumar Kalmani**

Email: mohankumarkalmani@gmail.com

Phone: 7795966626

Logical thinking is the ability to reason and analyze information in a structured and systematic manner, making rational conclusions based on evidence and logical principles.

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## 7.8 Attendance Form

### Attendance Form

**Student Name:**

Yashwanth ks

**Branch:**

ISE

**Usn:**

4ni20is127

**Course Name:**

CN

**Activity Details:**

Pre Placement Talk

**Document Proof Link:**

<https://drive.google.com/file/d/1LiX-OAEVwycglm382eLLnEI4qfJ>

**Student Email:**

2020ee\_yashwanthks\_b@nie.ac.in

**Faculty Email:**

2020is\_mohankumarkalmani\_a@nie.ac.in

**Submit**