Department of Technical Education

Capstone Project

Document CIE 2

Capstone project Name: Event Mitra

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Description of Technology Used

Web Technology: -

A place connected to the internet, where a company, organization etc. Puts information that can be found on the world wide web.

Types of web technology: -

- Browsers
- HTML and CSS
- Programming Languages
- Frameworks
- Web Servers
- Databases
- Protocols

Advantages: -

- We can access any location.
- No data lose.
- Data can recover.
- Be available online every time.
- We can save time.

Cloud Based Technology: -

To live the project, we need to purchase cloud server.

Cloud based technology is the use of software and services via the Internet. These applications commonly include data storage, networking, servers and databases. Users can access their cloud hosted tools with any device that is connected to the Internet.

Types of cloud-based technology: -

a. SAAS: -Software as a Service
b. PAAS: -Platform as a Service
c. IAAS: -Infrastructure as a Service.

Advantages: -

- Usability and accessibility
- Security
- Cost efficient
- Convenient sharing of files
- Automation

Open-Source Technology: -

For our project we not require to purchase any software's and libraries.

- **XAMPP**

  Xampp is a cross-platform and open-source tool, which makes it an idea choice of web developers. It is the acronym of X-Cross Platform, Apache, Mysql, PHP, Perl.

- **PHP**

  PHP is an open-source scripting language used for creating dynamic and interactive web pages and various digital platforms.

- **PhpMyAdmin**

  Php Admin is an open source and free administration tool for mysql.

Advantages

- Community-Driven Reliability
- Community-Driven Security
- Low Cost on an Ongoing Basis
- Better, Community-Based Collaboration

Details o0f Hardware devices

Processor: -

The processor is a chip or a logical circuit that responds and processes the basic instructions to drive a particular computer. We have used average I3 processor. The Core i3 processor is available in multiple speeds, ranging from 1.30GHz up to 3.50GHz, and features either 3 MB or 4 MB of cache. Core i3 processors are found as dual-core, having two cores.

Types of processors: -

- **Microprocessor: -**
  The general-purpose processors are represented by the microprocessor in embedded systems. There are different varieties of microprocessors available in the market from different companies.
- **Microcontroller**
  The microcontroller is basically a computer that comes in various packages and sizes. The reading input and responding to output is the basic function of the microcontroller.

RAM: -

Random access memory. It is one of the parts of the Main memory, also known as Read Write Memory. Random Access memory is present on the motherboard and the computer's data is temporarily stored in RAM. We have used average RAM of 2GB and 4GB.

Types of RAMS: -

- **SRAM (Static Random-Access memory)**
  SRAM is used for Cache memory; it can hold the data as long as the power availability is there. It is refreshed simultaneously to store the present information. It is made with CMOS technology.

- **DRAM (Dynamic Random Access Memory)**
  DRAM is used for the Main memory, it has a different construction than SRAM, it used one transistor and one capacitor which is needed to get recharged in milliseconds due to the presence of the capacitor.

Advantages of RAM: -

- High speed
- Temporary memory
- Faster than secondary memory
- Fastest type of memory in computer

Details of Software products

- **Xampp**

  Xampp is a free and open-source cross-platform web server solution stack package developed by Apache friends, it mainly consists of the Apache http server, MySql database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as Xampp, it makes transitioning from local test server to a live server possible.

- **Operating System**

  Operating System is software that manages and handles the hardware and software resources of a computer system. It provides interaction between users of computers and computer hardware. An operating system is responsible for managing and controlling all the activities and sharing of computer resources. An operating system is a low-level Software that includes all the basic functions like processor management, memory management, Error detection, etc.

- **Php Designer**

  We have used Php designer 8. PhpDesigner 8 is a lightning fast and powerful PHP IDE and PHP editor boosted with all the features to help you create amazing websites. Php is a server-side scripting language. Php stands for hypertext pre-processor. Php use for to create dynamic web pages. It is open-source scripting language.

- **Browser**

  A browser takes you anywhere on the internet. It retrieves information from other parts of the web and displays it on your desktop or mobile device. Common browsers include google chrome, Microsoft edge, internet explorer, Mozilla Firefox & apple safari.

- **VS Code**

  Visual Studio Code, also commonly referred to as VS Code, is a free source-code editor developed by Microsoft. It is a powerful code editor that is used for wide range of programming tasks. It is highly customizable, has large community of developers and providers many useful features to make the development smooth and efficient.

- **MySql**

  MySql stands for My Structured Query Language. MySql is a relational database management system (RDBMS)developed by oracle that is based on structured query language (SQL). A database is a structured collection of data.

Programming Languages

- **HTML**

  It stands for hypertext markup language. It is client-side scripting language. It is used to create static web pages. File extension of html is .html & html contains pre-defined tags.

Advantages

- It is easy to learn.
- Every browser supports HTML Language.
- HTML is light weighted and fast to load.
- HTML has many tags and attributes which can short your line of code.

- **CSS**

  CSS stands for Cascading Style Sheets. CSS is the language we use to style an html document. CSS describes how html elements should be displayed. It can control the layout of multiple web pages all at once. External stylesheets are stored in CSS files.

Advantages

- Helps in making creative web pages by making them simple to use.
- Improve the browsing speed.
- It can be used on various devices.
- Wider variety of design options.

- **PHP**

  PHP stands for Hypertext Pre-processor. PHP is a server-side scripting language designed specifically for web development. It is open-source which means it is free to download and use. It is very simple to learn and use. The extension for Php is '. Php'.

Advantages

- It's open-source and free from cost.
- It is platform-independent.
- It has less learning curve because it is simple and straightforward to use.
- It helps in managing code easily.

- **Bootstrap**

  Bootstrap is a free and open-source framework for web development. It uses HTML, CSS, and JavaScript to create responsive and mobile-friendly websites and web applications. It provides a collection of syntax for template designs that make web development easier and faster.

Advantages

- Open source
- Easy to use
- Save lots of time
- Compatible with browser

- **JavaScript**

  JavaScript is the most popular lightweight, interpreted compiled programming language. It can be used for both Client-side as well as Server-side developments. JavaScript also known as a scripting language for web pages. It is use for validation purpose.

Advantages

- Fast speed
- Easy to learn
- Versatility
- Popularity

Description of the components in the system

Admin login: -

In admin login using username and password admin can login. In this admin can manage all the sub modules like he can see all the publishers who posted the events & he can able to approve the events. Admin can manage and view the events.

Publisher registration: -

In this publisher can register under the admin. In registration we need fill some fields after filling the fields we can register.

Publisher login: -

In this using particular username and password publisher can login. After login publisher can create the events.

View publisher registration: -

In this admin can view the publisher registration list. In these lot of publishers are present who created the events for competition.

Create events and competition: -

In this, after login of publisher he can need to create the events. In this publisher should create events for competition and should provide the required details of particular events.

Manage and view events: -

In this admin can view event list, and they can approve and disapprove events. In this when admin can make events status active then only user can view the events, otherwise events can't visible to the users. So, admin can manage and approve the events.

User view events list: -

In this user can view the created events for their participation. In this user can view all the created events.

Apply for events: -

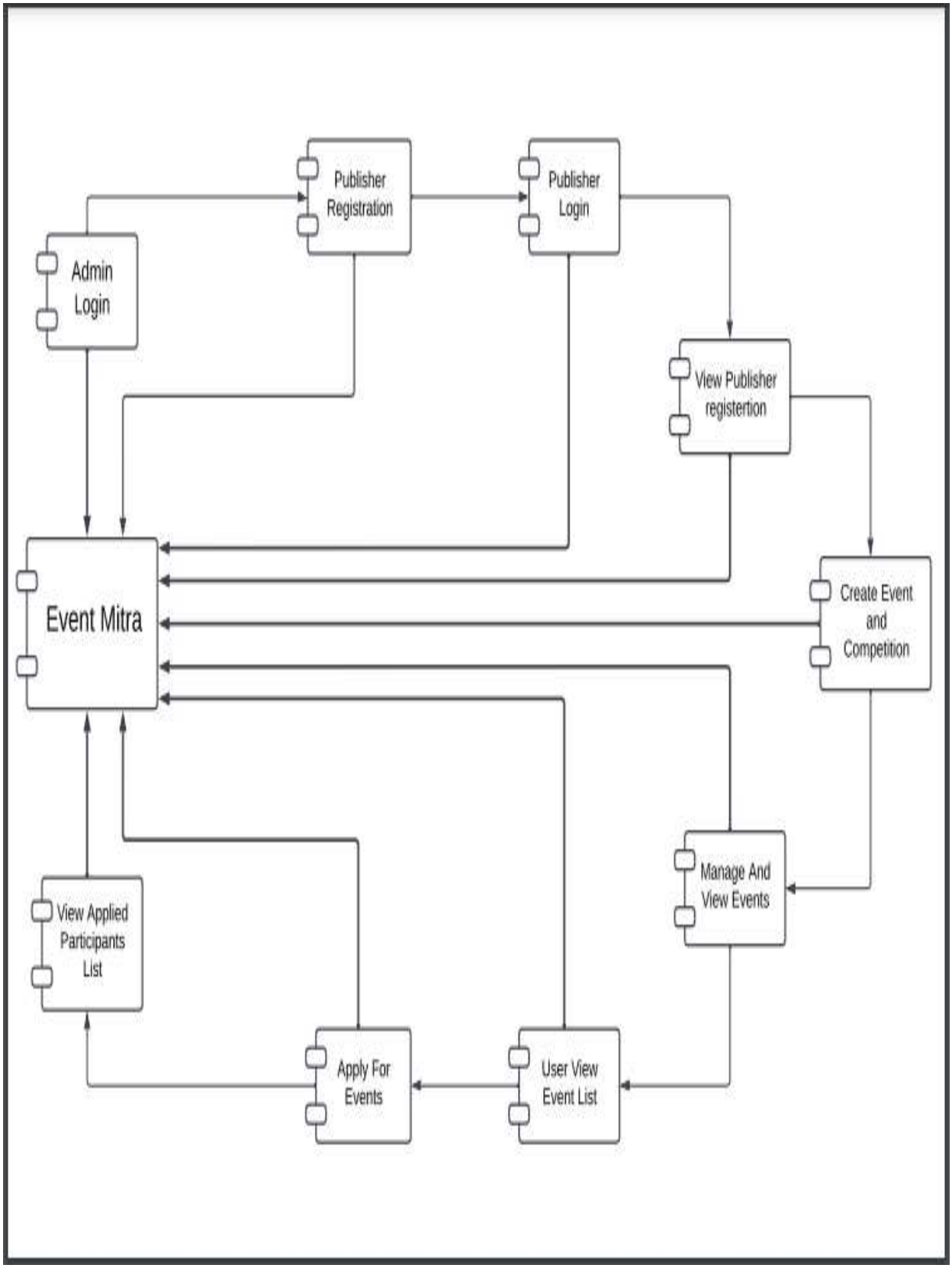
In this user can apply for the events. In this user need to fill the correct details for applying the events.

View applied participants list: -

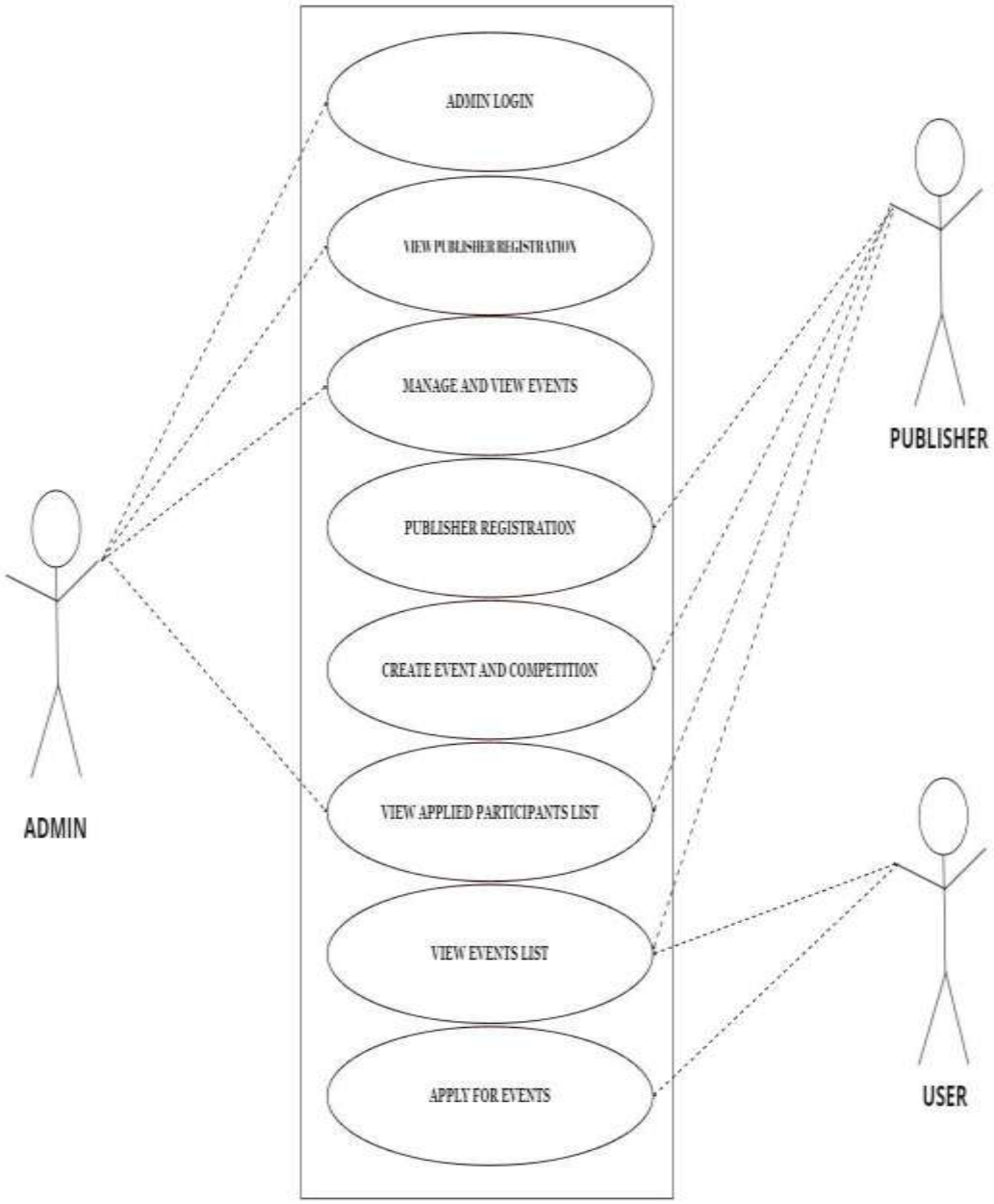
In this publisher can view the registered participants list for their event.

Components diagrams and required design if any

Component Diagram: -



Use case diagram: -



Construction or Fabrication details

In this we are going to explain about execution of our project modules.

Admin login: -

In admin login, first we have collected the requirements & after collecting requirements we analysed the needed requirements. Then we are designing the admin login form. After designing we are validating the form with filling the required details of each field with proper information. After we performed the database connection. Then, after completing all the steps testing will takes place.

Publisher registration: -

In publisher registration, first we have collected requirements, after that we analysed the requirements for this form. After that we taken next step to design the form. Then we have validated the form with filling some details, after form validated correctly, then we went for database connection. Then we have tested the form with comparing each step of the form.

Publisher Login: -

In publisher login form, we have collected requirements, after collecting requirements we analysed the requirements for this form. Then we have designed the form. Then we have validated the form with filling some details like username & password, after form validated correctly, then we went for database connection. Then we have tested the form with comparing each step of the form.

View publisher registration list: -

In view publisher registration list, we have collected requirements, after collecting requirements we analysed the requirements for this. Then we have designed this page. Then we have validated the form. Then we went for database connection. Then we have tested the form with comparing each step of the form.

Create events and competition: -

In this we have created the events, so for this first we have collected the requirements then we analysed the requirements. After that we have designed the page. After that we validated form with each field with filling details. Then performed the database connection. After all this we tested the page comparing with each step of the page.

Manage and view events: -

In this admin is going to view events, & he should managing all the sub modules. For execution of this page, we have collected the requirements & analysed the requirements. Then we designed the page. After designing we have validated this page with entering some details. Then we performed the database connection. After this testing will take place.

User view events list: -

In this user can view the created events. In this first we have collected the requirements then we analysed the requirements. After that we have designed the page. After that we validated form with each field with filling details. Then performed the database connection. After all this we tested the page comparing with each step of the page.

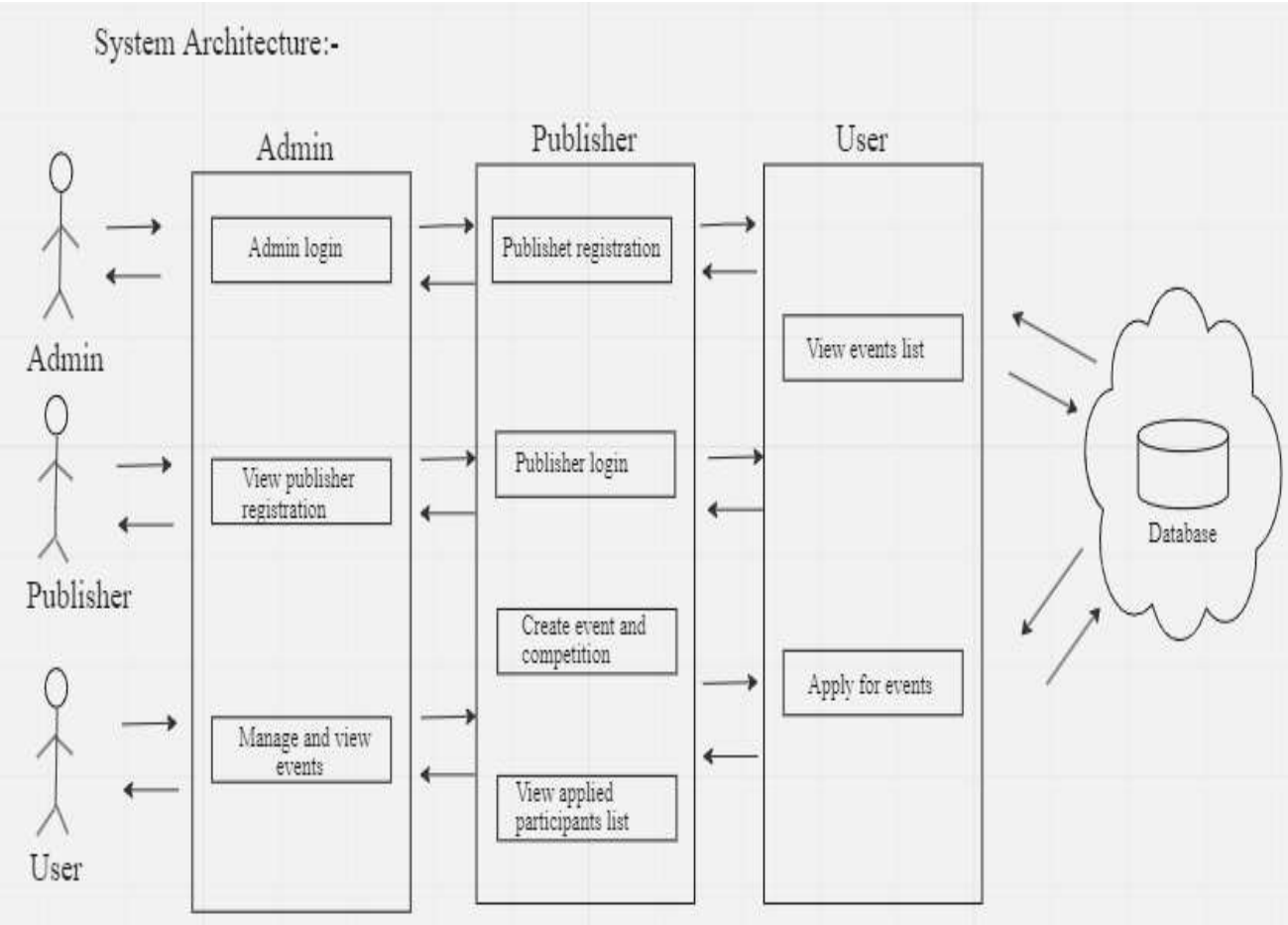
Apply for events: -

In this user can apply for events with entering his correct details. For this we have collected requirements, after collecting requirements we analysed the requirements for this. Then we have designed the page. Then we have validated this page. After form validated correctly, then we went for database connection. Then we have tested the form with comparing each step of the page.

View applied participants list: -

In this publisher can view the applied participants list for their events. For this we have collected requirements, after collecting requirements we analysed the requirements for this. Then we have designed the page. Then we have validated this page. After form validated correctly, then we went for database connection. Then we have tested the form with comparing each step of the page.

System Architecture Diagram: -



Any other information needed to execute the capstone project

XAMPP is a cross-platform and open-source tool, which makes it an ideal choice of web developers. It is the acronym of X-cross platform, Apache, MySQL, PHP, and Perl.

- **XAMPP Server**

Steps to run program using XAMPP Server

1. Open XAMPP Server control panel.
2. Start Apache and MySQL service.
3. Minimize the windows.
4. Open browser.
5. In URL address bar type root folder name with local host (local host/cbkeventmitra).

To live the program on cloud server

1. To Purchase web domain name and cloud server from any software company.
2. After purchase using username and password login to the cloud server and configure the project.

Date: Signature of the student Signature of the cohort owner