

A  
**Project Report On**  
**“Cyber Security Awareness”**  
At

**Bhushan's Blog**

*Submitted in the partial Fulfillment of the Requirements Of*

**BACHALOR OF COMPUTER APPLICATION**

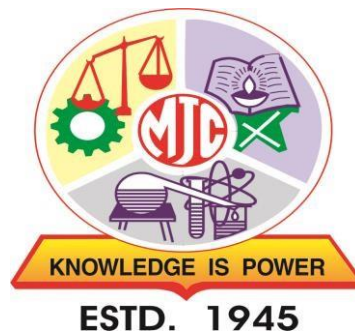
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**K.C.E Society's**

**Moolji Jaitha College (100001), Jalgaon.**

**NAAC Accredited 'A' Grade (with CGPA 3.63)**

**UGC honored 'College of Excellence'**

**Academic Year – 2020-21**

**Guided By**

**Miss. Yogeshwari Yawalkar**

K.C.E. Society's

## MOOLJI JAITHA COLLEGE, JALGAON

NAAC Reaccredited "A" Grade (with CGPA 3.63)

UGC honored "College of Excellence"

ISO 9001:2008 Certified

### Faculty of Science

Professional Management

### ~~~Certificate~~~

This is to certify that **CHAUDHARI BHUSHAN LILADHAR** is a confide student of M. J. College, Jalgaon and he has completed the Project, titled "**Cyber Security Awareness**" guidance in partial fulfillment of the requirement for the degree of "**Bachelor of Computer Application**" for the year 2020-2021 of North Maharashtra University, Jalgaon.

**Project Guide**

**Vice Principal**

**Examiner**

**Examiner**

# Acknowledgement

The satisfaction that accompanies the successful completion of any task would be incomplete without the mention of people whose ceaseless cooperation made it possible, whose constant guidance and encouragement crown all efforts with success.

We are grateful to our project guide **Miss.Yogeshwari Yawalkar** for the guidance, inspiration and constructive suggestions that helpful to us in the preparation of this project.

I acknowledge most sincerely and respectfully **Dr.A.P.Sarode**, Vice Principal of Management and Commerce Faculty, **Moolji Jaitha College, Jalgaon.**

Finally, I appreciate my colleagues and friends who kindly offered their suggestions, comments and criticism for improvement of this report.

**Chaudhari Bhushan Liladhar**  
**(T.Y.B.C.A.)**

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# 1. INTRODUCTION

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**Cyber Security Awareness** is becoming the need of every person. Everybody should know about precautions or security to take while surfing on internet.

In this website I have added some courses which are helpful for cyber security. And by my personal opinion I have added some blogs for spreading the information about cyber security , like footprinting ,what is networking and how it works? , what is social Engineering? , etc.

**Cyber Security** is an essential component of any company or enterprise across the world, hence the scope of cyber security is immense and I have described that in this report on **Cyber Security Awareness** .

By simply visiting my site , the basic precautions to take while surfing internet will get free of cost. You just have to register the site or if you are already registered then you only need to log in the website.

**Thank you!**

## 2. NEED

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### **Needs:**

Admin finds it very easy way to obtain the customer, supplier and Bill information.

- User friendly.
- Admin can get the Timely Information from the database without any delay regarding the query.
- This reduces the delay of response.
- System provides Reports to admin for making quick decisions.

### 3. OBJECTIVES

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Cybersecurity refers to the use of network architecture, software, and other technologies to protect organizations and individuals from cyber attacks. The objective of cybersecurity is to prevent or mitigate harm to—or destruction of—computer networks, applications, devices, and data. For cybersecurity strategy to succeed, it must continually evolve to keep pace with the shifting strategies and technologies used by hackers. More importantly it requires a multi-pronged effort that includes security management for better monitoring and visibility; cloud protections for all environments; mobile security that follows wherever the business leads; threat prevention and anti-ransomware technology; and security appliances that grow with business needs to current and future cybersecurity needs. -

- A computer based management system is designed to handle all the primary information required to be needed to know.
- This project intends to introduce more user friendliness in Cyber Security.
- The searching of record has been made quite simple as all the details of the client can be obtained by simply keying in the identification of that client.
- Similarly, record maintenance and updating can also be accomplished by using the identification of the client with all the details being automatically generated. These details are also being promptly automatically updated in the master file thus keeping the record absolutely up-to-date.
- The entire information has maintained in the database or Files and whoever wants to retrieve can't retrieve, only authorization user can retrieve the necessary information which can be easily be accessible from the file.



- The main objective of the entire activity is to automate the process of day to day activities of website like:

1. Blog reading,
  2. Purchasing a Course,
  3. Registration of a New Client,
  4. Login activity.
3. Assign a course according to client's/student's demand,
  4. Checkout the cart.
  5. Finally compute the bill of purchased courses etc.
  6. Free blogs available.
  9. Email facility.

## **Feedbacks This project have some more features:**

- System Connectivity
- No data duplication
- No Paper Work Required
- Time Efficient
- Cost Efficient
- Automatic data validation
- User friendly environment
- Data security and reliability
- Fast data insertion & retrieval
- Easy performance check

## 4. SCOPE OF PROJECT

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Cyber Security is an essential component of any company or enterprise across the world, hence the *scope of Cyber Security* is immense. Cyber Security is the technology, process, and practice, designed to protect devices, programs, and data from damages, attacks, and other unauthorized access. Cyber Security is also known as Information Technology Security, focuses on protecting computers, applications, systems and networks from unauthorized access, change, or destruction. The former components are the basic components of any company hence you can imagine what would the scope of cybersecurity be like. Many authorized institutions, like the military, government agencies, financial institutions, Banking Sector, etc. have confidential information that is stored on computers and transmitted to networks. With growing cyber-attacks, it has become necessary to protect this sensitive data and personal information. Thousands and millions of Cyber Security professionals will be required to do so.

## 5. TECHNOLOGY PROPOSED FOR PROJECT

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### HARDWARE AND SOFTWARE REQUIREMENT

A major element in building system is selection of compatible hardware & software. Hardware selection they begin with requirements analysis following by a request for proposal, evaluation & validation, post installation review.

While selecting the software various criteria is considered such as reliability (gives consistent results), functionality (function to standards), capacity (satisfies volume requirements), flexibility (adapts to changing needs), usability (user friendly), security (to prevent unauthorized access), performance (capacity to deliver as expected), serviceability (good documentation), minimal cost (affordable for intended application).

- **Software Requirement:**

1. Operating System-widows 7 (I used WIN10)
2. VS CODE (You can use any editor)
3. Microsoft Access 2019.
4. SQL and PHP

- **Hardware Requirement:**

1. Core i3 Processor.
2. Minimum 4GB RAM.
3. Maximum 500 GB HDD.
4. Input Devices: Keyboard, Mouse.

## 6. FEASIBILITY STUDY

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At the time of the development we have gone through the following phases:

### **Recognition of need (Requirement specification):**

It refers to the organization's needs, requirements and expectations from the project to be developed. After recognizing the organization's need, it has been taken in writing and then a rough idea of the system/project has been given to the firm. **1.**

### **Feasibility Study:**

It is always essential to evaluate the various aspects before we develop the project. Evaluation should always justify the cost and benefits ratio. Economic, social and technical feasibility of project is analyzed.

### **2. Data Collection:**

Here comes an important aspect of project development i.e. data collection. For this to accomplish, we observe registers, bills, invoices and order forms at client's firm.

**3. Data Normalization:** Normalization means allowing only a single value in a table's row and column intersection. For this, entities are identified from the data collected and normalized tables with appropriate relationship and minimized redundancy are designed.

### **4. System Design:**

This step includes drawing of different diagrams such as DFD and ERD. It includes database design, form design etc.

### **5. Coding:**

It is the most critical stage among all the stages of development. It has taken approximately seven days to complete. It involves giving functioning to data

entry forms with the help of action, validation, calculations and linking of different data entry forms.

**6. Testing:** It involves testing of the working of the project.

**7. Implementation:**

This involves deployment of project to client side.

**8. User training:**

It is one day activity involving training to the user to operate the project

## 7. CASE TOOLS

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It is always essential to evaluate the various aspects before we develop a system. Evaluation should always justify the cost and benefits ratio. If it is found that benefits are less as compare to the cost of project, then it is better to avoid going in for computerization.

The key consideration involved in the Feasibility analysis is:

**1. Technical Feasibility.**

**2. Economical Feasibility.**

**3. Social Feasibility.**

### **1. Technical Feasibility:**

For this project technical feasibility should be studied in two aspects i.e. Hardware feasibility and software feasibility. The system should be easy to update i.e. if the user wants to made some changes in the system then it should be easy for him to change without disturbing the initial system. It should be develop in such a way that it will easy to operate.

It should be menu driven and provide help features and give message on each option so it should be easy to even novice to operate the package. Few hours training is sufficient to train the operator.

### **2. Economical feasibility:**

Cost benefit analysis gives justification for the computerization. In this the benefits and savings that are expected are comparing with costs. If benefits overweigh cost then only the decision is made to design and implement the system. In our case, computerization results reduction of cost, reduction of staff and reduction and of non-reusable stationary. The computer stationary will replace various types of bills and registers. However the overall effect on the operating cost

is that we get substantial reduction in monthly running cost. Cost will reduce also in terms of reduction in expenses for space and computers required.

### **3. Social Feasibility:**


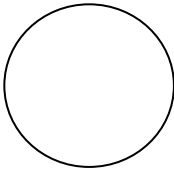


Operating with records in both situations i.e. in manual system and computerized system is quite different. Manual system is always disliked because of the complications and other hustle involved in maintaining the records. Computerization will be welcomed because of the simplicity in the data entry and fastest and easy way of getting outputs. After computerization it will become the job of single operator with no risk involved in posting and report generation. Speed of the operation will also increase substantially and hence reporting service to patient will be faster. Hence all welcomes computerization.

# Data Flow Diagram (DFD)

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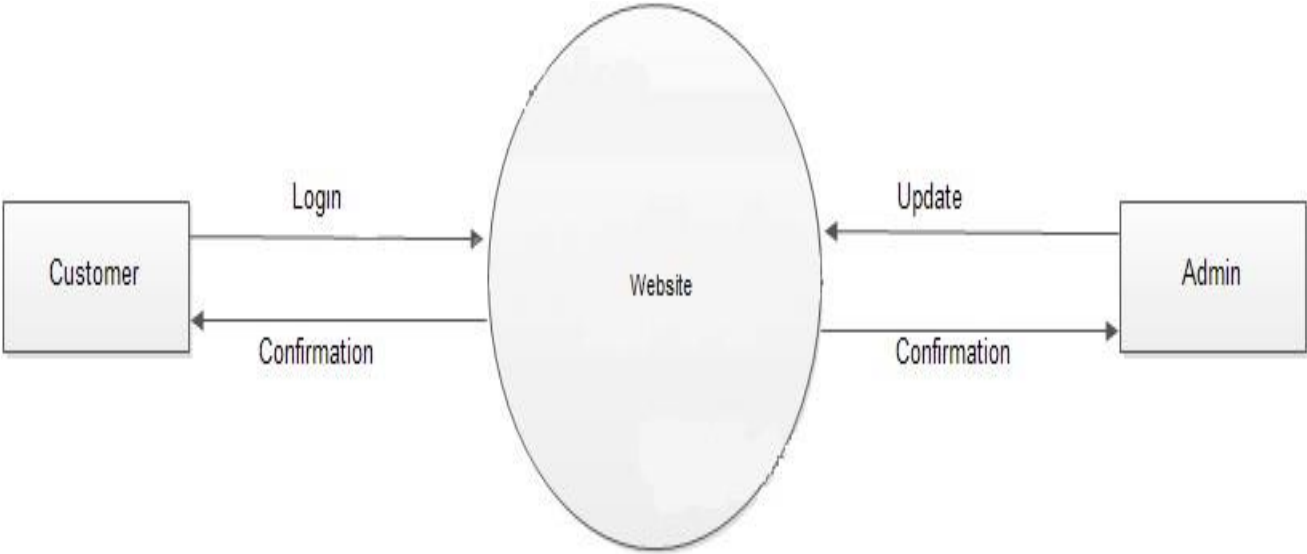
- Data flow diagram is graphical tool which is used to describe and analyze the movement of data through a system. They focus on the data flowing into the system, between processes and in & out of data stores.
- DFD is a graphical technique that detects information flow and transformation that are applied as data move from input and output.
- DFD is a central tool and the basis from which other components are developed.
- DFD provides mechanism for a final modeling as well as information flow modeling.
- DFD has very simple notation which are easily understood by the users & those who involved in the system.

## Symbol used for DFD

Symbol	Meaning
	External Entity as source Destination.
	Process or Function.
	Indicates the direction of data flow
	File Storage i.e. data is Stored for use by one or more.



# Data Flow Diagram



# Entity Relationship Diagram

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An ER-Diagram can express the overall logical structure of a database graphically. The Entity Relationship Diagram enable a software engineer to fully specify the data objects that are input from a system, the attributes that define the properties of these objects and the relationship between the objects.

- The ER model is one of the several semantic data models; the semantic aspect of the model lies in the attempt to represent meaning of the data.
- The ER model is extremely useful in mapping the meaning and interaction of real world enterprise into a conceptual schema.
- It is notable point that concept of ERD is totally different from DFD. The ER-Diagram is used to describe the logical organization of data.

There are following four type of relationships diagram between entities given as follows:

1. One to One
2. One to Many
3. Many to One
4. Many to Many

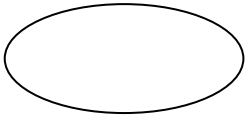
### **Symbol used for ERD**

**Symbol**

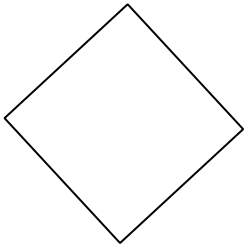
**Meaning**



Entity



Attribute

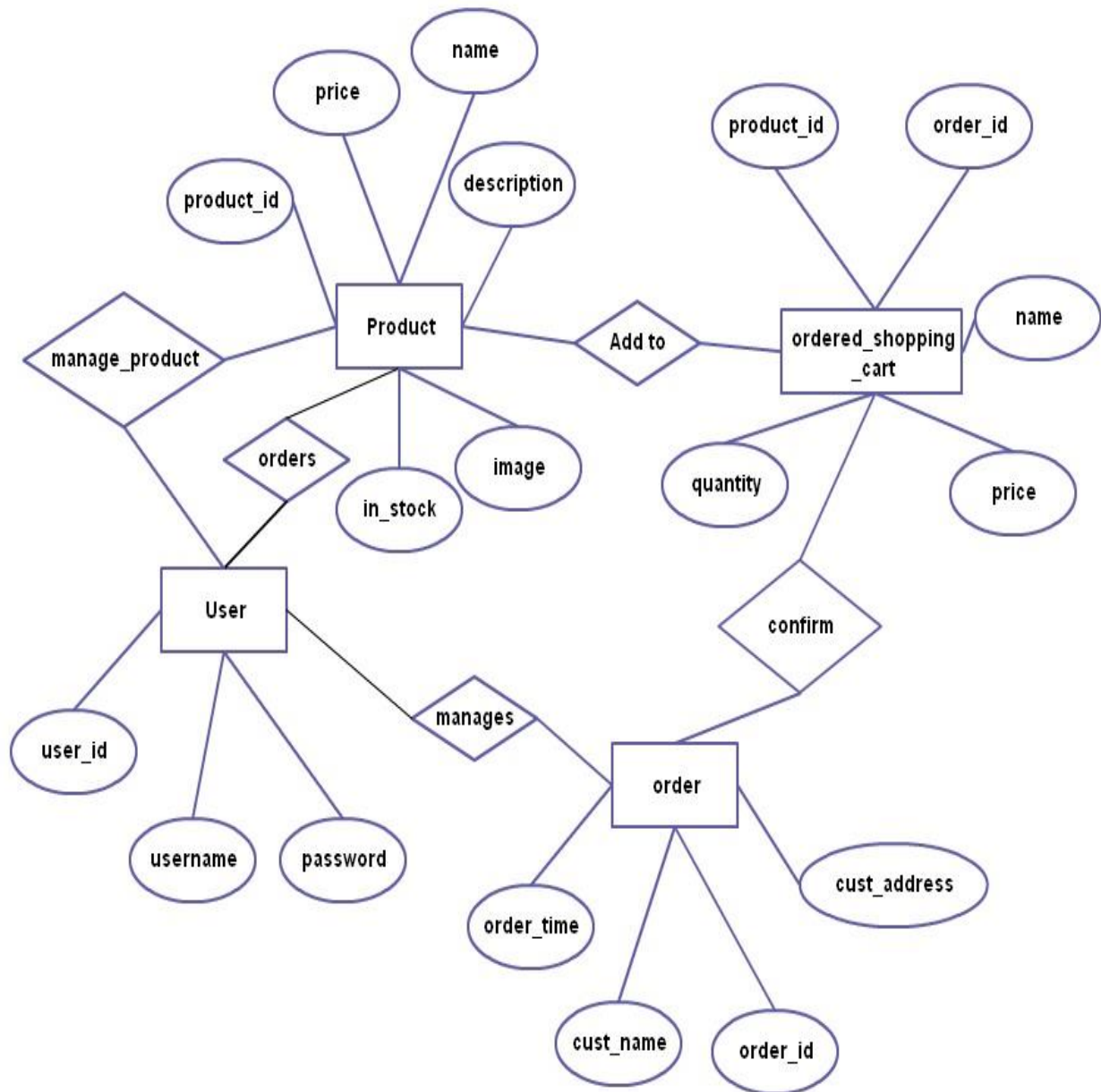


Relationship



Links

# Entity Relationship Diagram



## 8. TESTING TOOLS

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Testing is important from the point of view of accurate functioning of the project. There are many testing measures and tools available to test a project. Basic tools used to test this project are:

- 1) Black Box Testing.
- 2) White Box Testing
- 3) GUI Testing

### 1. Black Box Testing:

It is a method of software testing that tests the functionality of an application as opposed to its internal structures or workings. Specific knowledge of the application's code/internal structure and programming language in general is not required. The tester is only aware of what the software is supposed to do, but not how i.e. when he enters a certain input, he gets certain output; without being aware of how the output was produced. Tests cases are build around specifications and requirements, i.e., what the application is supposed to do. It uses external descriptions of the software, including specifications, requirements and designs to derive test cases. These test designer select valid and invalid inputs and determine the correct output. There is knowledge of the test object's internal structure.

This method of test can be applied to all levels of software testing: Unit, Integration, System and Acceptance. It typically comprises most if not all testing at higher levels, but can also dominate unit testing as well.

### The advantages of this type of testing include:

- The test is unbiased because the designer and the tester are independent of each other.

- The tester does not need knowledge of any specific programming languages.
- The test is done from the point of view of the user, not designer.

## **The disadvantages of this type of testing include:**

- The case can be redundant if the software designer has already run a test case.
- The test cases are difficult to design.

## **2. White Box Testing:**

White box testing is a method of testing software that tests internal structures or workings of an application, as opposed to its functionality. In white-box testing an internal perspective of the system, as well as programming skills, are required and used to design the test cases. The tester chooses input to exercise paths through the code and determine the appropriate outputs. While white-box testing can be applied at the unit, integration and system levels of the software testing process, it is usually done at unit level. It can test paths within a unit, paths between units during integration, and between subsystems during a system level test. Though this method of test design can uncover many errors or problems, it might not detect unimplemented parts of the specification or missing requirements.

### **White-Box test design techniques include:**

- Control flow Testing
- Data flow Testing
- Branch Testing
- Path Testing

For a complete software examination, both white box and black box tests are required.

## **3. Graphical User Interface Testing:** It is the process of testing a product's graphical user interface to ensure it meets its written specifications. This is normally done through the use of a variety of test cases. It checks only the user friendliness. The creation of the user interface is less time consuming for the user but more complex for the programmer. It must be tested for its sole purpose.

**This test must be carried out to ensure:**

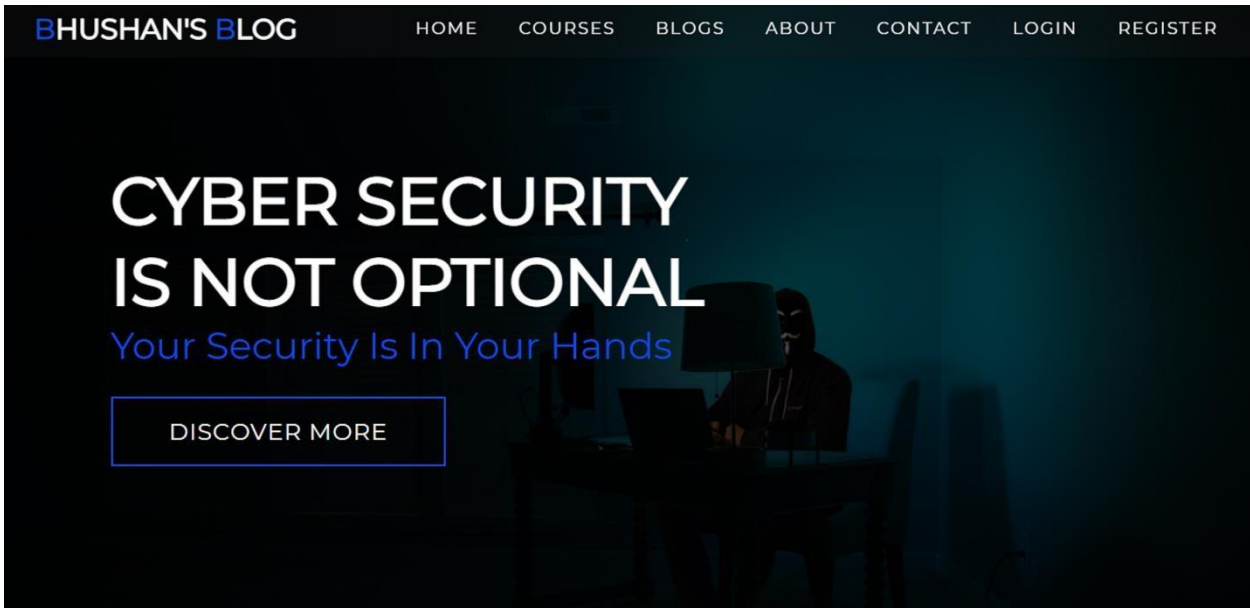
- Windows open properly.
- All data contents are properly addressable.
- All the graphical elements are available and displayed.

Multiple or incorrect mouse click do not produce side effects

## 9. Onscreen Views

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### Home Page





# About me Page

BHUSHAN'S BLOG

[HOME](#) [COURSES](#) [BLOGS](#) [ABOUT](#) [CONTACT](#) [LOGIN](#) [REGISTER](#)



## ABOUT ME

Bhushan Chauhdari

A web developer with an open source enthusiast. An undergraduate BCA student from MJ college, Jalgaon. I also love the logic & structure of coding and always strive to write elegant & efficient code, whether it be Html, CSS, Java, Javascript and more. Currently I'm looking for new career opportunities

[DOWNLOAD RESUME](#)

# Blogs page-1

BHUSHAN'S BLOG

[HOME](#)

[COURSES](#)

[BLOGS](#)

[ABOUT](#)

[CONTACT](#)

[LOGIN](#)

[REGISTER](#)

## BLOGS

### What is Networking and How it works

**Computer** networks connect nodes like computers, routers, and switches using cables, fiber optics, or wireless signals. These connections allow devices in a network to communicate and share information and resources. Networks follow protocols, which define how communications are sent and received.



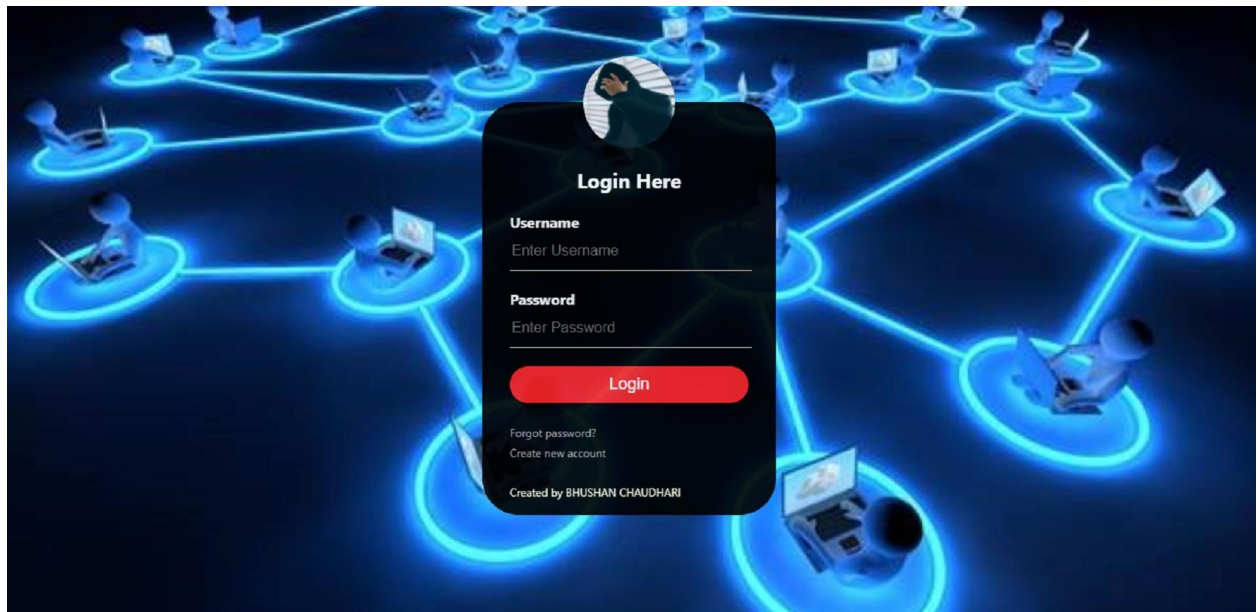
### What is Social Engineering ? and How It work

**Social engineering** is the term used for a broad range of malicious activities accomplished through human interactions. It uses psychological manipulation to trick users into making security mistakes or giving away sensitive information. Social engineering attacks happen in one or more steps.

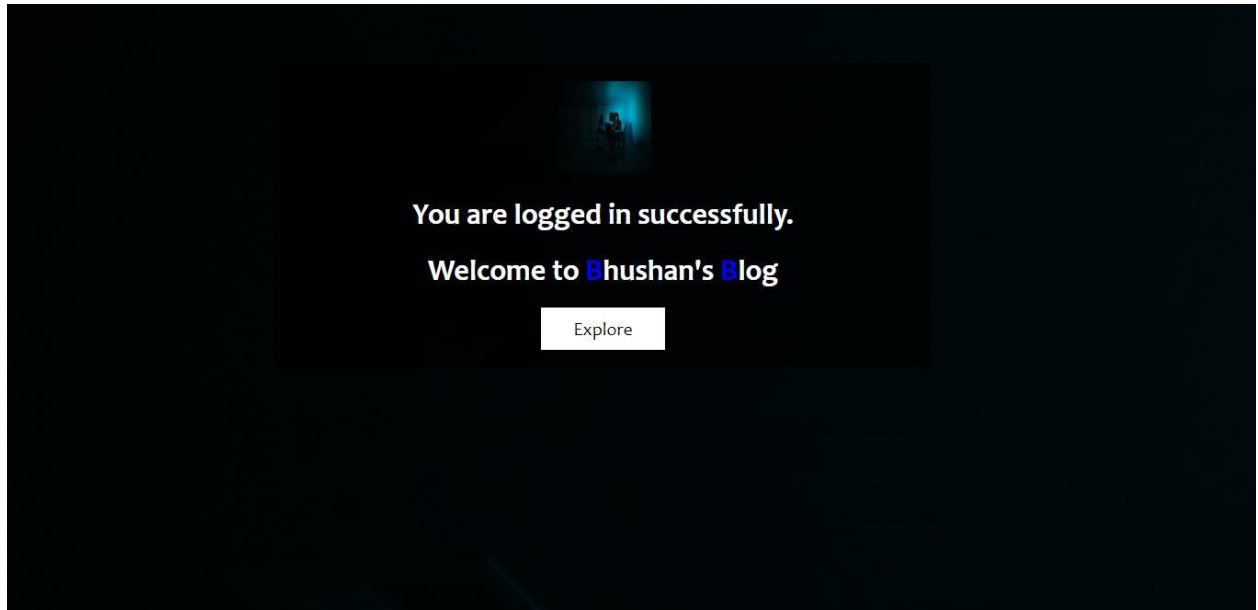
## Blogs page-2



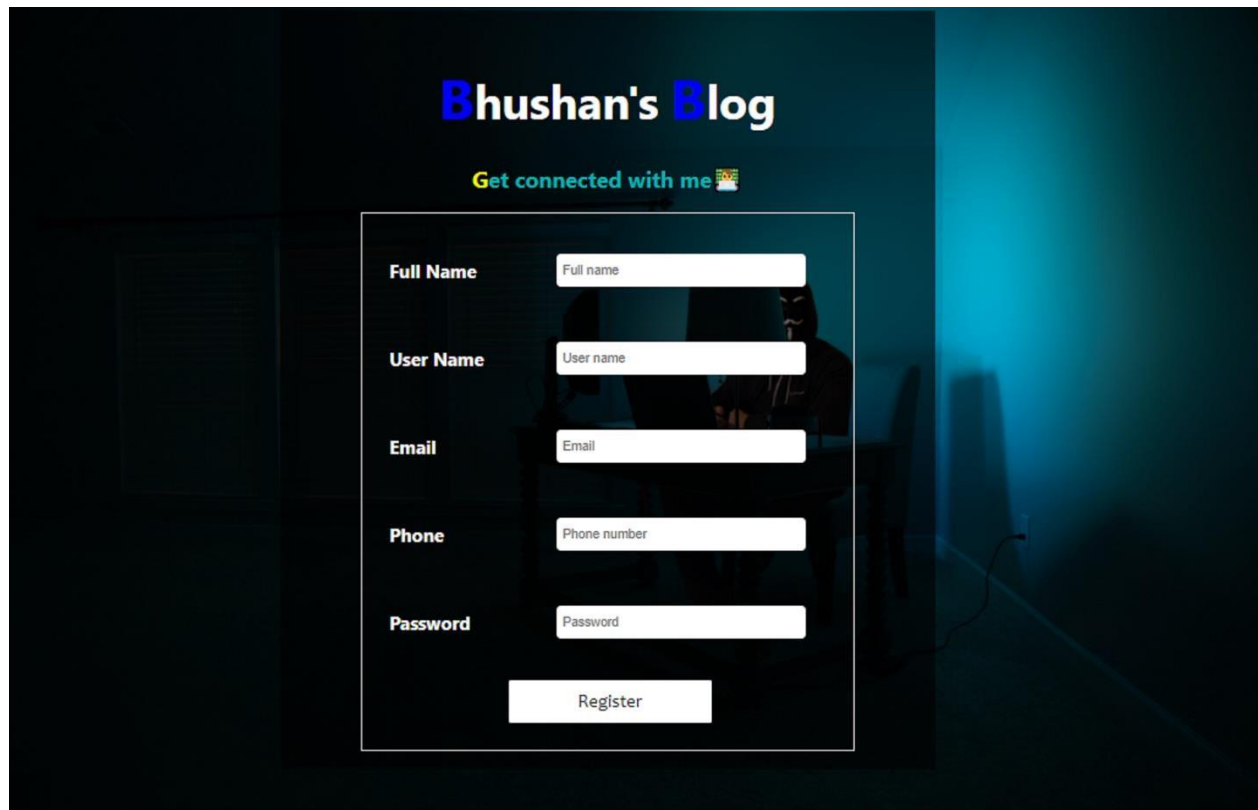
# Login Page



# Login Database



# Register Page



The image shows a registration form for 'Bhushan's Blog'. The form is centered on a dark background with a blue light effect on the right. It includes input fields for Full Name, User Name, Email, Phone, and Password, each with a placeholder text. A 'Register' button is at the bottom.

**Bhushan's Blog**

Get connected with me 📧

**Full Name**

**User Name**

**Email**

**Phone**

**Password**

# Register Database

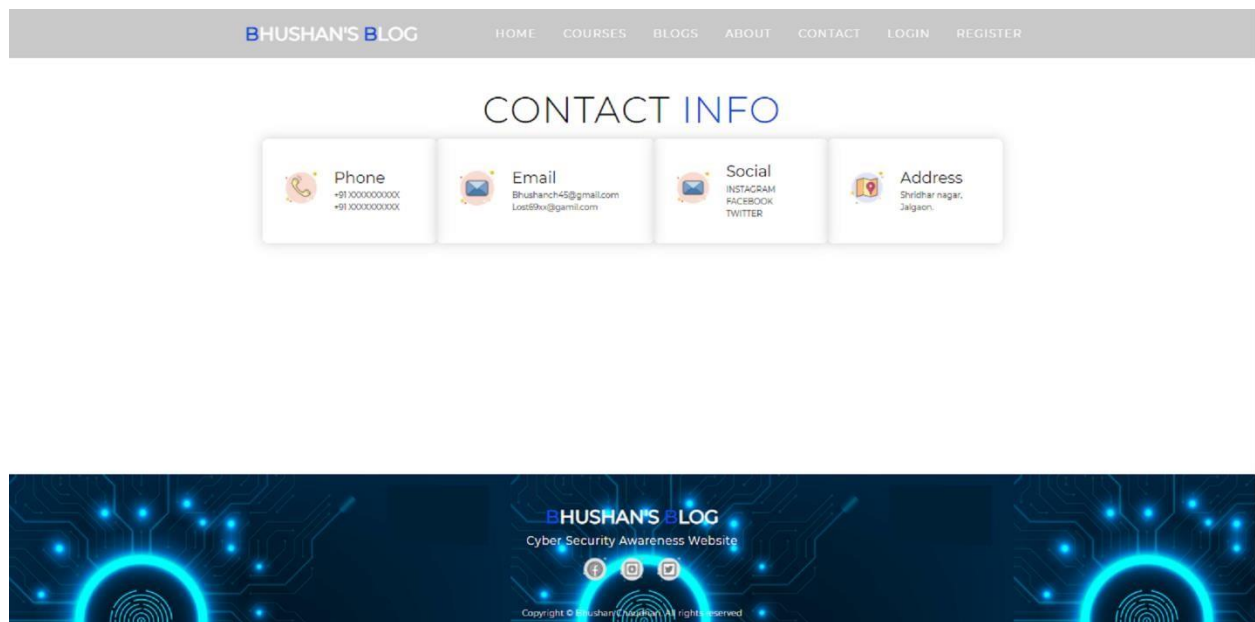


Your registration details stored successfully.

Welcome to Bhushan's Blog

Explore

## Contact Info and Footer Page





## 10.LIMITATION

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- Cannot see design page preview like .html page. Every time want to run the website to see the design.
- Understanding flow of website is very easy one. But , It is little bit of complex to implement and not suitable for small level website.
- Its deployment is little bit hard one.
- Complex Pages with Performance issues
- The managed code can be slower than native code
- Migrating applications to HTML5 can be expensive

## 11. CONCLUSION

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The website quality depends upon the phases included in the system. An application website should be easy to operate & understand. A high Quality website product satisfies the user requirements regarding design specification & maintains flexibility as well .These aspects are accomplished in designing and developing this Particular websites “**Cyber Security Awareness**”.

The

system is-

- **User Friendly**- The system is totally user friendly & easy to operate & understand.
- **Duplicity**- As data is completely normalized, so that no duplicate entries exists
- **Menu driven**- This system is totally menu driven for the best result.

## 12. USER MANUAL

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### **USER REQUIREMENTS:**

Every user interacts with the system with some needs and requirement such as:-

- 1) Basic knowledge of computer should be required.
- 2) User should know basic knowledge about the computerized Courier Services i.e. which are the modules of the computerized system, what is the function of each module.
- 3) Comprehensive information accessing and retrieving so as to provide valuable report and figures.
- 4) Data security and priority is not to be ignored.
- 5) At the time of generating the reports, where the corresponding reports are to be set in the computerized system.
- 6) Every user must know the function of each Master entry, Transaction entry and Reports.
- 7) The format, field within a format, data types, what type of data is to be entered, what is the maximum size of each entry module. The user must know each thing.
- 8) In short, operating environment about the computerized “Silver Jewellery Management System “must be familiar to the user.
- 9) Every Text Box should be filled with Data .If data is not available put at list ‘.’(DOT) for character, as well as for numeric data’0’ (ZERO) should be placed.

## 13. REFERENCES

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- 2) Full web development
- 3) Code with harry
- 4) Geeks for Geeks
- 5) Tech21

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- 2) [asp.net-tutorials.com](http://asp.net-tutorials.com)
- 3) [www.w3schools.com](http://www.w3schools.com)
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