

THE BHOPAL SCHOOL OF SOCIAL SCIENCES
Project Report
On
Saloon Management
SUBMITTED TO
DEPARTMENT OF COMPUTER APPLICATIONS



IN PARTIAL FULLFILMENT
OF THE DEGREE OF
BACHELOR OF COMPUTER APPLICATIONS (BCA)
SESSION 2020-21
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Submitted to:-

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Introduction

Introduction to the System:

This project is aimed at developing a Web application that depicts online management of saloon parlour.

This software help website admin to see all detail in brief like total number of customer, Total number of appointment, Rejected Appointment, Accepted Appointment, Total Services,

This software helps user to take appointment with beauty parlor on particular date and time.

User views the services which are offer by beauty parlor User sees the details of beauty parlor and can contact with beauty parlor.

Problem Definition:

Managing your saloon parlour management system may seem tricky, but this is part of Customer Service System (application support direct contact with customer)

Aim:

“To manage online management of saloon parlour.”

Objective:

This software help website admin to see all detail in brief like total number of customer, Total number of appointment, Rejected Appointment, Accepted Appointment,

This software helps user to take appointment with beauty parlor on particular date and time. User views the service which is offer by beauty parlor User sees the details of beauty parlor and can contact with beauty parlor.

Goal:

The saloon parlours handle the entire advance table booking manually, which is very tedious and mismanaged.

The objective of our project is as follows:

To keep the information of customer.

To keep all detail in brief like total number of customer, Total number of appointment, Rejected Appointment, Accepted Appointment.

Need of the System:

There is always a need of a system that will perform online appointments in saloon parlours and manage customers and booking records.

This system will reduce the manual operation required to maintain all the records. And also generates the various reports for analysis.

Hardware and Software Requirements

Contents:

- Software requirement
- Hardware requirements

Hardware Requirement Specification

- Processor: Pentium-III (or) Higher
- Ram: 64MB (or) Higher
- Hard disk: 80GB (or) Higher

Software Requirement Specification

- Technology: XAMPP
- IDE : visual studio code
- Client Side Technologies: HTML, CSS, JavaScript , Bootstrap
- Server Side Technologies: PHP
- Data Base Server: MYSQL
- Operating System: Microsoft Windows/Linux

System Analysis

Contents:

- Purpose
- Project Scope
- Existing System
- Proposed System
- System Overview

Purpose:

To manage the online appointment in saloon parlour. It helps to customer to take appointment online from anywhere.

This project also helps in administrative work such as keep information of customers and appointment bookings.

Project Scope:

The project has a wide scope, as it is not intended to a particular organization. This project is going to develop generic software, which can be applied by any businesses organization. More over it provides facility to its customer. Also the software is going to provide a huge amount of summary data.

Proposed System:

The Online Saloon parlour Management system is available in the market that can serve

customers to take appointment and view our appointment status online.

System Overview:

Admin Modules

1. **Dashboard:** In this section admin can see all detail in brief like total number of customer, Total number of appointment, Rejected Appointment, Accepted Appointment.
2. **Appointment list:** In this section admin can view the detail of appointments and have right to reject and select appointment.
3. **Customer List:** In this section admin can view customer list and assign services and make invoices of services which is taken by customer.
4. **Ban/unban:** In this section admin can ban/unban users
5. **Search Appointment:** In this section admin can search appointment with the help of his/her appointment number, name and contact number.
6. **Search User:** In this section admin can search user with the help of his/her name. Admin can also update his profile, change password and recover password.

User (Customer) Modules

Home Page: User can take appointment with beauty parlor on particular date and time.

Services: User views the services which is offer by beauty parlor.

About Us: User sees the details of beauty parlor.

Contact Us: User can contact with beauty parlor.

Implementation issues

HTML

HTML (Hypertext Markup Language) is the set of markup symbols or codes inserted in a file intended for display on a World Wide Web browser page. The markup tells the Web browser how to display a Web page's words and images for the user. Each individual markup code is referred to as an element (but many people also refer to it as a tag). Some elements come in pairs that indicate when some display effect is to begin and when it is to end.

CASCADING STYLE SHEET (CSS)

Cascading Style Sheets (CSS) are a collection of rules we use to define and modify web pages. CSS are similar to styles in Word. CSS allow Web designers to have much more control over their pages look and layout. For instance, you could create a style that defines the body text to be Verdana, 10 point. Later on, you may easily change the body text to Times New Roman, 12 point by just changing the rule in the CSS. Instead of having to change the font on each page of your website, all you need to do is redefine the style on the style sheet, and it will instantly change on all of the pages that the style sheet has been applied to. With HTML styles, the font change would be applied to each instance of that font and have to be changed in each spot.

CSS can control the placement of text and objects on your pages as well as the look of those objects.

HTML information creates the objects (or gives objects meaning), but styles describe how the objects

should appear. The HTML gives your page structure, while the CSS creates the “presentation”. An external CSS is really just a text file with a .css extension. These files can be created with Dreamweaver, a CSS editor, or even Notepad.

The best practice is to design your web page on paper first so you know where you will want to use styles on your page. Then you can create the styles and apply them to your page.

RDBMS (Relational Database Management System)

A short definition of an RDBMS is a DBMS in which data is stored in tables and the relationships among the data are also stored in tables. The data can be accessed or reassembled in many different ways without having to change the table forms.

MySQL

MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack (and other 'AMP' stacks). LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python." Free-software-open source projects that require a fullfeatured database management system often use MySQL. MySQL can be built and installed manually from source code, but this can be tedious so it is more commonly installed from a binary package unless special customizations are required. On most Linux distributions the package management system can download and install MySQL with minimal effort, though further configuration is often required to adjust security and optimization settings. Though MySQL began as a low-end alternative to more powerful proprietary databases, it has gradually evolved to support higher-scale needs as well. It is still most commonly used in small to medium scale single-server deployments, either as a component in a LAMP-based web application or as a standalone database server. Much of MySQL's appeal originates in its relative simplicity and

ease of use, which is enabled by an ecosystem of open source tools such as phpMyAdmin. In the medium range, MySQL can be scaled by deploying it on more powerful hardware, such as a multi-processor server with gigabytes of memory. There are however limits to how far performance can scale on a single server ('scaling up'), so on larger scales, multi-server MySQL ('scaling out') deployments are required to provide improved performance and reliability. A typical high-end configuration can include a powerful master database which handles data write operations and is replicated to multiple slaves that handle all read operations. The master server synchronizes continually with its slaves so in the event of failure a slave can be promoted to become the new master, minimizing downtime. Further improvements in performance can be achieved by caching the results from database queries in memory using memcached, or breaking down a database into smaller chunks called shards which can be spread across a number of distributed server clusters.

Language: PHP

PHP is a scripting language designed to fill the gap between SSI (Server Side Includes) and Perl, intended for the web environment. Its principal application is the implementation of web pages having dynamic content. PHP has gained quite a following in recent times, and it is one of the frontrunners in the Open Source software movement. Its popularity derives from its C-like syntax, and its simplicity. PHP is currently divided into two major versions: PHP 4 and PHP 5, although PHP 4 is deprecated and is no longer developed or supplied with critical bug fixes. PHP 6 is currently under development. PHP was designed by Rasmus Lerdorf to display his resume online and to collect data from his visitors. PHP allows a static webpage to become dynamic. "PHP" is an acronym that stands for "PHP: Hypertext Preprocessor". The word "Preprocessor" means that PHP makes changes before the HTML page is created. This enables developers to create powerful applications which can publish a blog, remotely control hardware, or run a powerful website such as Wikipedia or Wikibooks. Of course, to accomplish something such as this, you need a database application such as

MySQL. PHP code is interpreted by a web server with a PHP processor module, which generates the resulting web page: PHP commands can be embedded directly into an HTML source document rather than calling an external file to process data. It has also evolved to include a interface capability and can be used in standalone graphical applications. The PHP language was originally implemented as an interpreter, and this is still the most popular implementation. Several compilers have been developed which decouple the PHP language from the interpreter. Advantages of compilation include better execution speed, static analysis, and improved interoperability with code written in other languages. PHP includes free and open source libraries with the core build. PHP is a fundamentally Internet-aware system with modules built in for accessing File Transfer Protocol (FTP) servers, many database servers, embedded SQL libraries such as embedded PostgreSQL, MySQL, Microsoft SQL Server and SQLite, LDAP servers, and others. Many functions familiar to C programmers such as those in the studio family are available in the standard PHP build.

Back End: PHP MyAdmin PHPMyAdmin is a free software tool written in PHP, intended to handle the administration of MySQL over the Web. PhpMyAdmin supports a wide range of operations on MySQL, Maria DB and Drizzle. Frequently used operations (managing databases, tables, columns, relations, indexes, users, permissions, etc.) can be performed via the user interface, while you still have the ability to directly execute any SQL statement

DATA FLOW DIAGRAM

A data flow diagram (DFD) or bubble chart is a graphical tool for structure analysis. DFD models a system by using external entities from which data flows to a process, which transforms the data and creates output data flows which go to other processes or external entities or files. Data in files may also flow to processes as inputs. DFDs can be hierarchically organized, which helps

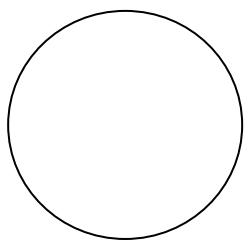
in partitioning and analysing large systems. As a first step, one dataflow diagram can depict an entire system which gives the overview. It is called as context diagram of level 0 DFD. The context diagram can be further expanded.

The DFD also known as bubble chart. It is a simple graphical formalism that can be used to represent a system in terms of the input data to the system, various processing carried out on these data and the output data generated by the system. The main reason why this DFD technique is so popular is probably because of the fact that DFD is a very simple formalism- it is simple to understand and use. A DFD model uses a very limited number of primitive symbols to represent the functions performed by a system and the data flow among these systems. Starting with a set of high level functions that a system performance of DFD model in hierarchically it represents various sub functions. The Data Flow Diagramming technique also follows a simple set of intuitive concepts and rules.

Data flow diagram (DFD) is used to show how data flows through the system and the processes that transform the input data into output. Data flow diagrams are a way of expressing system requirements in a graphical manner. DFD represents one of the most ingenious tools used for structured analysis

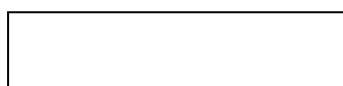
BASIC DFD SYMBOLS

Function Symbol:



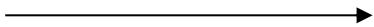
A function is represented using a circle. This symbol is called a process or a bubble. Bubbles are annotated with the names of corresponding functions.

External Entity Symbol:



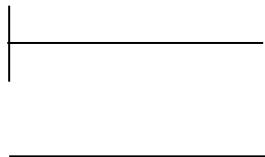
An external entity such as a user, project manager etc. is represented by a rectangle. The external entities are essentially those physical entities external to the application system, which interact with the system by inputting data to the system or by consuming the data produced by the system. In addition to the human users the external entity symbols can be used to represent external hardware and software such as application software.

Data Flow Symbol:



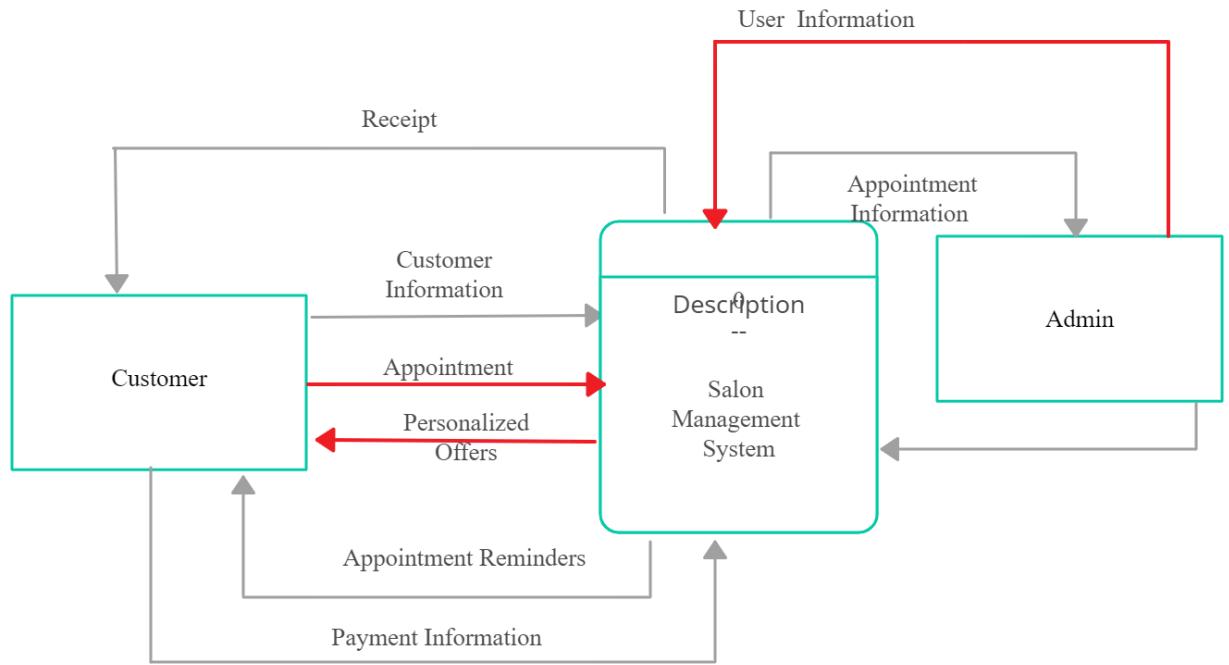
A directed arc or an arrow is used as a Data Flow Symbol. This represents the data flow occurring between two processes or between an external entity and a process; in direction of the Data Flow Arrow. Data flow Symbols are annotated with corresponding data names.

Data Store Symbol



A Data Store represents a logical file; it is represented using two parallel lines. A logical file can represent either Data Store Symbol, which can represent either data structure or a physical file on disk. Each data store is connected to a process by means of a Data Flow Symbol. The direction of the Data

Flow Arrow shows whether data is being read from or written into a Data Store. An arrow flowing in or out of a data store implicitly represents the entire area of the Data Store and hence arrows connecting to a data store need not be annotated with the names of the corresponding data items.



ENTITY RELATIONSHIP DIAGRAM

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The entity relationship model is a high level data model. It is based on a perception of a real world that consists of a collection of basic objects, called entities, and of relationship among these objects. It was developed to facilitate database design by allowing specification of an enterprise schema,

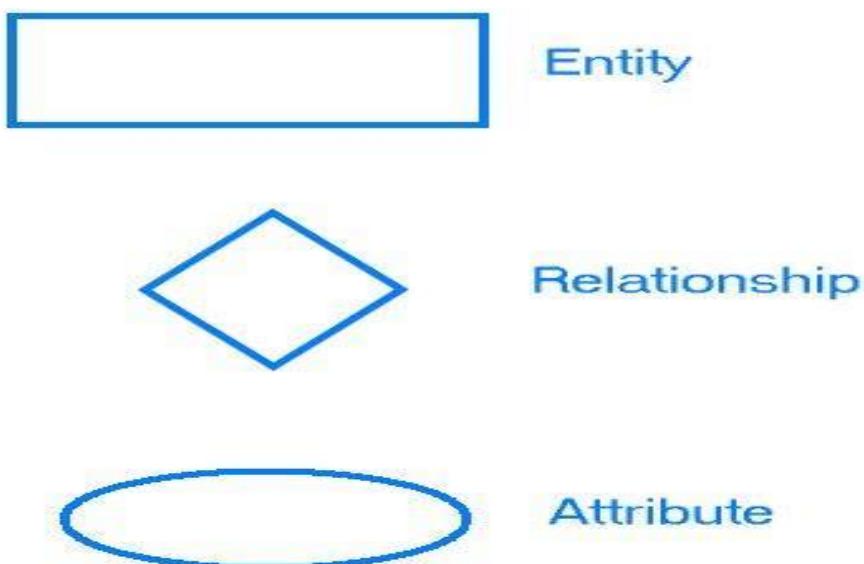
which represent the overall logical structure of a database.

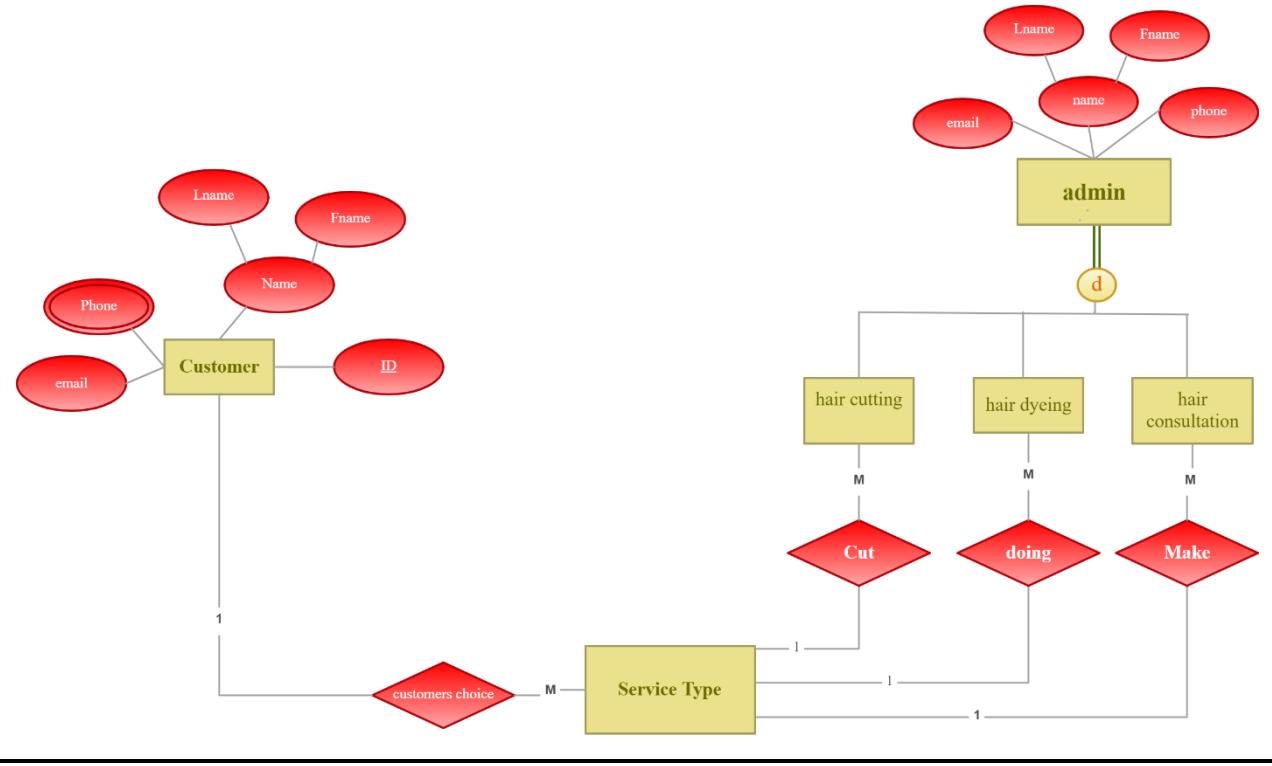
Entity: An entity is an object that has its existence in the real world. It includes all those —things! about which data is collected. An entity may be a tangible object such as a student, a place or a part. It may also be non-tangible such as an event, a job title or a customer account. For example, if we say that a customer buys goods, it means customer and goods are entities. Diagrammatically, entities are represented in rectangles.

An Entity Set: It is a set of entities of the same type that share the same properties, or attributes. The set of all persons who are customers at a given bank, example, can be defined as the entity set customer.

Attributes: Attributes are units that describe the characteristics or properties of entities. In a database, entities are represented by tables and attributes by columns. For example, a customer entity might have numerous attributes such as code, name and addresses.

Similarly, the goods entity may have attributes like code and price. They are drawn in elliptical shapes along with the entity rectangles.





TESTING

Testing is a process of executing a program with the interest of finding an error. A good test is one that has high probability of finding the yet undiscovered error. Testing should systematically uncover different classes of errors in a minimum amount of time with a minimum amount of efforts. Two classes of inputs are provided to test the process

1. A software configuration that includes a software requirement specification, a design specification and source code.
2. A software configuration that includes a test plan and procedure, any testing tool and test cases and their expected results.

Testing is divided into several distinct operations:

1. Unit Testing

Unit test comprises of a set tests performed by an individual program prior to the integration of the unit into large system. A program unit is usually the smallest free functioning part of the whole system. Module unit testing should be as exhaustive as possible to ensure that each representation handled by each module has been tested. All the units that makeup the system must be tested independently to ensure that they work as required.

During unit testing some errors were raised and all of them were rectified and handled well. The result was quiet satisfactory and it worked well.

2. Integration Testing

Integration testing is a system technique for constructing the program structure while at the same time conducting tests to uncover errors associated with interfacing. The objective is to take unit tested modules and build a program structure that has been dictated by design. Bottom-up integration is the traditional strategy used to integrate the components of a software system into functioning whole. Bottom-up integration consists

of unit test followed by testing of the entire system. A sub-system consists of several modules that communicated with other defined interface.

The system was done the integration testing. All the modules were tested for their compatibility with other modules .They test was almost successful. All the modules coexisted very well, with almost no bugs. All the modules were encapsulated very well so as to not hamper the execution of other modules.

3. Validation Testing

After validation testing, software is completely assembled as a package, interfacing errors that have been uncovered and corrected and the final series of software test; the validation test begins. Steps taken during software design and testing can greatly improve the probability of successful integration in the larger system. System testing is actually a series of different tests whose primary purpose is to fully exercise the compute –based system.

4. Recovery Testing

It is a system that forces the software to fail in a variety of ways and verifies that the recovery is properly performed.

5. Security Testing

It attempts to verify that protection mechanisms built into a system will in fact protect it from improper penetration. The system's security must of course be tested from in vulnerability form frontal attack.

6. Stress Testing

Stress tools are designed to confront programs with abnormal situations. Stress testing executes a system in a manner that demands resources in abnormal quantity and volume.

7. Black Box Testing

Black box testing is done to find out the following information as shown in below:

- Incorrect or missing functions.
- Interface errors.
- Errors or database access.
- Performance error.
- Termination error.

The mentioned testing is carried out successfully for this application according to the user's requirement specification.

8. Test Data Output

After preparing test data, the system under study is tested using the test data. While testing the system using test data, errors are again uncovered and corrected by using above testing and corrections are also noted for future use.

DATABASE TABLE DESIGN

Table	Action	Rows	Type	Collation	Size	Overhead
appointments		4	InnoDB	latin1_swedish_ci	32.0 KiB	-
inventories		12	InnoDB	latin1_swedish_ci	1.5 MiB	-
sales		8	InnoDB	latin1_swedish_ci	32.0 KiB	-
salesdetails		19	InnoDB	latin1_swedish_ci	32.0 KiB	-
users		10	InnoDB	latin1_swedish_ci	16.0 KiB	-
5 tables	Sum	53	InnoDB	utf8mb4_general_ci	1.6 MiB	0 B

+ Options										
	← T →	appointmentId	userId	appointmentDate	appointmentTime	typeOfServices	hairdresser	request	status	
<input type="checkbox"/>	Edit Copy Delete	7	4	2019-05-24	11:00 - 13:00	Hair-dyeing	Joanne Cheong	none	unfulfilled	
<input type="checkbox"/>	Edit Copy Delete	8	7	2020-04-11	15:00 - 17:00	Hair-cutting	David Cheam	hi	unfulfilled	
<input type="checkbox"/>	Edit Copy Delete	9	7	2020-04-12	09:00 - 11:00	Hair-dyeing	David Cheam	none	unfulfilled	
<input type="checkbox"/>	Edit Copy Delete	13	11	2021-04-27	13:00 - 15:00	Hair-cutting	Steven Lau	none	fulfilled	

+ Options														
	← T →	inventoryId	inventoryName	description	quantity	unitPrice	purchasingPrice	status	brand	manufacturer	image_name	mime	archive	gen
<input type="checkbox"/>	Edit Copy Delete	1	Hair-cutting	Hair cut	10000	50	50	In stock	None	None	[BLOB - 25.6 KiB]	image/png	No	Ma
<input type="checkbox"/>	Edit Copy Delete	2	Hair-dyeing	Hair dye	10000	80	80	In stock	None	None	[BLOB - 5.3 KiB]	image/png	No	Ma
<input type="checkbox"/>	Edit Copy Delete	3	Hair-consultation	Hair consultation	10000	50	50	In stock	None	None	[BLOB - 2.2 KiB]	image/png	No	Ma
<input type="checkbox"/>	Edit Copy Delete	92	Pureology	"Iâ€™m not the type of person to spend a lot of mo...	4	19.99	12.99	Limited stock	Pureology	Yokoso	[BLOB - 51.5 KiB]	image/jpeg	No	Ma
<input type="checkbox"/>	Edit Copy Delete	93	For Fine Hair	"I've been using this Adama brand for a couple yea...	10	19.99	15	In stock	Zion Health	Zion Health	[BLOB - 49.6 KiB]	image/jpeg	No	Fer
<input type="checkbox"/>	Edit Copy Delete	94	For Thin Hair	My longstanding favorite shampoo/conditioner combo...	20	74.5	50	In stock	Paul Mitchell	Paul Mitchell	[BLOB - 64.0 KiB]	image/jpeg	No	Uni
<input type="checkbox"/>	Edit Copy Delete	95	L Oreal Paris	Iâ€™ve been blessed with a full head of curly, kin...	99	29.99	24	In stock	L'Oreal Paris	Loreal	[BLOB - 402.0 KiB]	image/png	No	Fer

+ Options									
	← T →	salesId	staffId	salesAmount	dateOfSales				
<input type="checkbox"/>	Edit Copy Delete	93	1	19.99					2019-04-16
<input type="checkbox"/>	Edit Copy Delete	94	1	91.99					2019-05-01
<input type="checkbox"/>	Edit Copy Delete	95	1	98.99					2017-05-16
<input type="checkbox"/>	Edit Copy Delete	96	1	173.49					2018-05-16
<input type="checkbox"/>	Edit Copy Delete	97	6	41.99					2019-03-16
<input type="checkbox"/>	Edit Copy Delete	98	1	612					2019-05-16
<input type="checkbox"/>	Edit Copy Delete	99	6	265.49					2019-05-16
<input type="checkbox"/>	Edit Copy Delete	100	3	19.99					2019-05-16

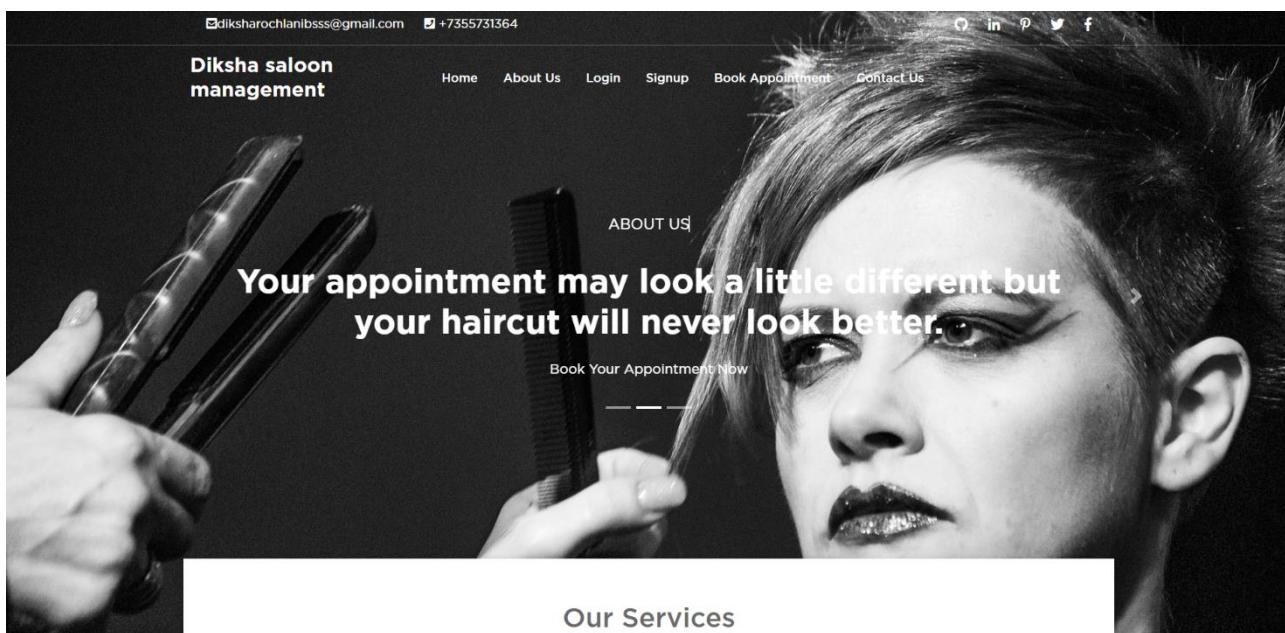
↑ Check all With selected: Edit Copy Delete Export

Options									
	← T →	salesId	inventoryId	itemAmount	dateOfSales				
<input type="checkbox"/>	Edit Copy Delete	93	92	1					
<input type="checkbox"/>	Edit Copy Delete	94	1	1					
<input type="checkbox"/>	Edit Copy Delete	94	92	1					
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<input type="checkbox"/>	Edit Copy Delete	95	93	1					
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<input type="checkbox"/>	Edit Copy Delete	98	96	6					
<input type="checkbox"/>	Edit Copy Delete	99	2	1					
<input type="checkbox"/>	Edit Copy Delete	99	92	1					
<input checked="" type="checkbox"/>	Edit Copy Delete	Console	01	1					

Options

	<input type="checkbox"/>	Edit	Copy	Delete	NULL	image_path	userId	email	contact	password	name	role	note	lastSignIn	forgotPasswordId	ba
	<input type="checkbox"/>	Edit	Copy	Delete	NULL		1	ngchinshu83@gmail.com		e10adc3949ba59abbe56e057f20f883e	Ng Chin Shu	manager		2019-05-16	NULL	NL
	<input type="checkbox"/>	Edit	Copy	Delete	NULL		2	ngchinsia@hotmail.com		b5ef261a75dce04c2b86ad4a0d3ea510		user		2019-04-15	NULL	NL
	<input type="checkbox"/>	Edit	Copy	Delete	NULL		3	bongjh@hotmail.com		e10adc3949ba59abbe56e057f20f883e	Bong Jin Hong	staff		2019-04-16	NULL	Ye
	<input type="checkbox"/>	Edit	Copy	Delete	NULL		4	ngyi@hotmail.com		e10adc3949ba59abbe56e057f20f883e	Ng Yi	user		2019-05-16	NULL	NL
	<input type="checkbox"/>	Edit	Copy	Delete	NULL		5	urumumgay@hotmail.com		e10adc3949ba59abbe56e057f20f883e	yoomumgay	user		2019-04-16	NULL	Ye
	<input type="checkbox"/>	Edit	Copy	Delete			6	ngyi07285@hotmail.com	012-3456789	e10adc3949ba59abbe56e057f20f883e	Ng Yi	staff		2019-05-16	NULL	NL
	<input type="checkbox"/>	Edit	Copy	Delete	NULL		7	kadamk33@gmail.com	012-7676351	d472b874222251a28bc0b2fd6fa7e2fe	Kishor Kadam	user		2020-04-12	NULL	NL
	<input type="checkbox"/>	Edit	Copy	Delete	NULL		8	f@gmail.com	561-515885	dd4b21e9ef71e1291183a46b913ae6f2	561-515885	user		2021-04-25	NULL	NL
	<input type="checkbox"/>	Edit	Copy	Delete	NULL		10	diksha@gmail.com	852-849456	dd4b21e9ef71e1291183a46b913ae6f2	diksha	manager		2021-04-27	NULL	NL
	<input type="checkbox"/>	Edit	Copy	Delete	NULL		11	diksharochlanibsss@gmail.com	858-528458	dd4b21e9ef71e1291183a46b913ae6f2	diksha	user		2021-04-27	NULL	NL

INPUT / OUTPUT SCREEN



Diksha saloon management

WE ARE
EXPERTS IN HAIR ARTISTRY

Enjoy the wonderful feeling with us

Our Services

Come experience the best haircut and color services

Hair-cutting Hair-dyeing Hair consultation

Inspired Style
YOU'VE GOT THE ATTITUDE, NOW GET THE LOOK!

We're known around town for our sexy and inventive hairstyles. Our team of professionals is always ready to provide you with an experience that will leave you satisfied and projecting confidence with your new look. The full customer experience we offer will match our clients' aspirations with proven techniques and artistry to bring wishes to reality. Providing the ultimate beauty service, we will have you shine with brilliance and perfection.

Why Us?

What Makes Us Best Saloon Services In The Market . Well This Are The Reasons

Won 552 Awards till date

5K + Customers

Best In The Market

Testimonial

97% of clients would refer friends and family to book Appointment

Raouth Samuel

The staff was friendly and courteous they ask the right questions and get me in on my appointment on time .

Andrew Samuel

My experience at Salon You is always a 5-star. I've been going for years and years and I love to see Terra for all things aesthetics and Emma for all things hair. They're both amazing at their jobs and I would definitely recommend both of them in a heartbeat.

Arun Kumar

Excellent experience with customer service staff and stylist. Love my new haircut!

Diksha saloon management

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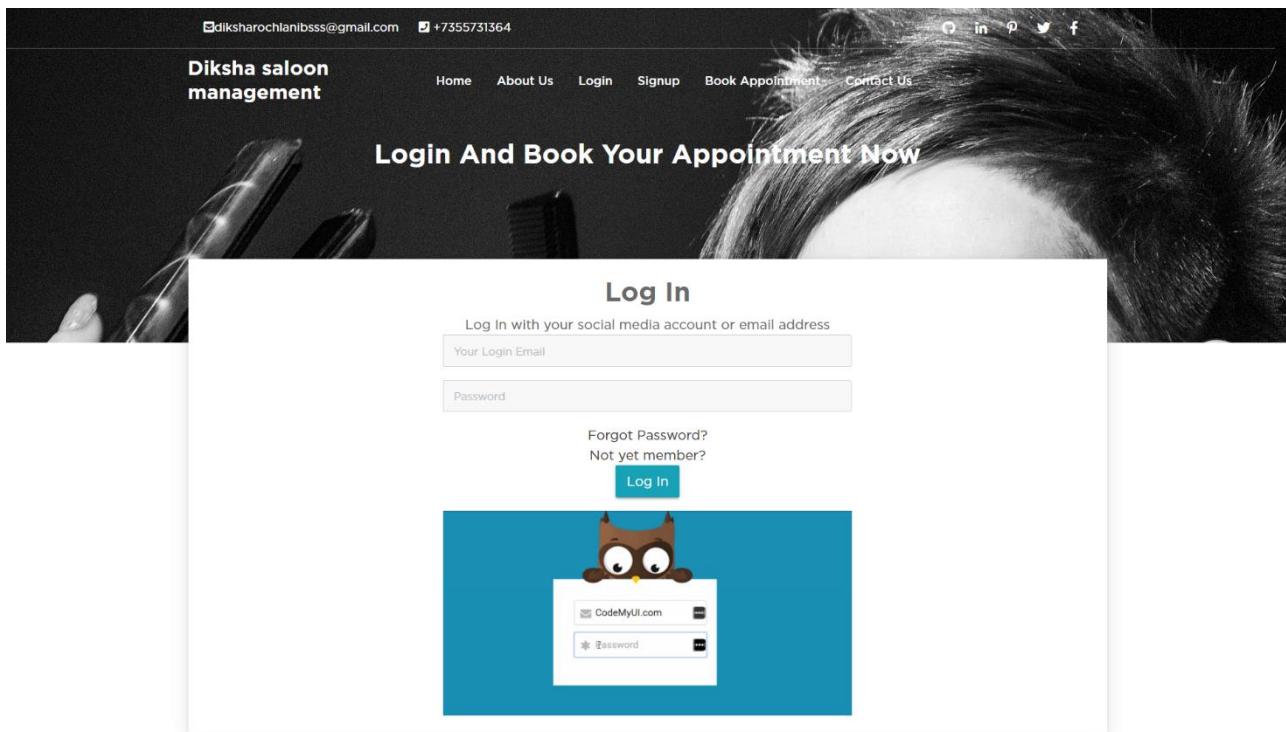
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diksharochlanibsss@gmail.com

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Sign Up

Sign Up with your email address

Your Name

Your Email

Your contact number

Password

Repeat your password

Register I am already member

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Contacts

+7355731364
Mehendi bagh near ram janki jhansi (UP)
diksharochlanibsss@gmail.com

Diksha saloon management
Enjoy the wonderful feeling with us

HOME APPOINTMENT diksha LOG OUT

diksha's Profile


Profile Image

No file chosen

Profile

Name: diksha

Email: diksharochlanibsss@gmail.com

Contact: 858-528458

[Edit Profile](#)

Upcoming Appointment history

Date	Time	Service	Action

Previous Appointments history

Date	Time	Service	Hairdresser
2021-04-27	13:00 - 15:00	Hair-cutting	Steven Lau

HOME APPOINTMENT diksha LOG OUT

Book Appointment

 Date & Time Personalize your time

 Services Choose your service

 Special Request We hear you

 Confirm Appointment

Date & Time

Date

Timeslot

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User management

No.	Email	Contact	Name	Note	Status	Last Online	Role	Actions	
1	ngchlnshu83@gmail.com		Ng Chin Shu		●	active 712 days ago	manager	<button>Edit</button>	<button>Ban</button>
2	ngchlnsla@hotmail.com				●	active 743 days ago	user	<button>Edit</button>	<button>Ban</button>
4	ngyi@hotmail.com		Ng Yi		●	active 712 days ago	user	<button>Edit</button>	<button>Ban</button>
6	ngyi07285@hotmail.com	012-3456789	Ng Yi		●	active 712 days ago	staff	<button>Edit</button>	<button>Ban</button>
7	kadamk33@gmail.com	012-7676351	Kishor Kadam		●	active 380 days ago	user	<button>Edit</button>	<button>Ban</button>
8	f@gmail.com	561-515885	561-515885		●	active 2 days ago	user	<button>Edit</button>	<button>Ban</button>
10	diksha@gmail.com	852-849456	diksha		●	active today	manager	<button>Edit</button>	<button>Ban</button>
11	diksharochlanibss@gmail.com	858-528458	diksha		●	active 2 days ago	user	<button>Edit</button>	<button>Ban</button>

1

Advantages & Limitations

Advantages of “Online Saloon parlour Management System”:

“Online Saloon parlour Management System” provides various features, which complement the information system and increase the productivity of the system. These features make the system easily usable and convenient. Some of the

Limitations of “Online Saloon parlour Management System”:

Besides the above achievements and the successful completion of the project, we still feel the project has some limitations, listed as below:

1. It is not a large scale system.
2. Only limited information provided by this system.
3. Since it is an online project, customers need internet connection.
4. People who are not familiar with computers can't use this software.

Future Scope

FUTURE SCOPE

This web application involves almost all the features of the online booking. The future implementation will be online help for the customers and chatting with website administrator.

CONCLUSION

The project entitled “Online Saloon parlour Management System” is developed using HTML , CSS and Bootstrap as front end and Php , mysql database in back end to computerize the process of

online management of customers and appointments of saloon parlour. This project covers only the basic features required.

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- <https://www.python.org/>
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THE BHOPAL SCHOOL OF SOCIAL SCIENCES

PROJECT REPORT

On

Online Examination System

SUBMITTED TO

DEPARTMENT OF COMPUTER APPLICATIONS



**IN PARTIAL FULLFILMENT
OF THE DEGREE OF
BACHELOR OF COMPUTER APPLICATIONS (BCA)
SESSION (2020-21)**

By

Name: Himanshi Mourya

Name: Megha Paliwal

Roll No: 18031019

Roll No: 18031024

Enrollment No: R190190270012

Enrollment No: R190190270017

**Under the Guidance of
Mr. Zeeshan
Assistant Professor
BSSS, Bhopal**

CERTIFICATE OF ORIGINALITY

This is to certify that the project report entitled “ONLINE EXAMINATION SYSTEM” Submitted to The Bhopal School of Social Sciences, in partial fulfillment of the requirement for the award of the degree of Bachelor in Computer Applications (BCA), is an original work carried out by

Ms. Megha Paliwal, Enrollment No.: R190190270017, Roll No.: 18031024 and

Ms. Himanshi Mourya, Enrollment No.: R190190270012, Roll No.: 18031019

The matter embodied in this project is a genuine work done by the students and has not been submitted whether to this University or to any other University / Institute for the fulfillment of the requirement of any course of study.

Signature of the Guide

Name: Mr. Zeeshan Ahmed Siddiqui

Designation: Assistant Professor

Address of the Guide: BSSS, Bhopal

DECLARATION

We do hereby declare that the project work entitled “Online Examination system” submitted by us for the partial fulfillment of the requirement for the award of Bachelor in Computer Applications (BCA), is an authentic work completed by us. The report being submitted has not been submitted earlier for the award of any degree or diploma to any Institute or University.

Date:

Signature:

Name: Himanshi Mourya

Roll No: 18031019

Signature:

Name: Megha Paliwal

Roll No: 18031024

ACKNOWLEDGEMENT

We convey our sincere gratitude to for giving us the opportunity to prepare our project work in online examination system. We express our sincere thanks to all the Staff members of department of computer.

We are thankful to Mr. Zeeshan Ahmed Siddiqui for his guidance during our project work and sparing his valuable time for the same.

We express our sincere obligation and thanks to the Principal and all Faculties of the Department of Computer Applications, The Bhopal School of Social Sciences, for providing us with guidance, help, motivation and valuable advice at every stage for completing the project work successfully.

Signature:

Name: Himanshi Mourya

Roll No: 18031019

Signature:

Name: Megha Paliwal

Roll No: 18031024

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Introduction & Objectives

These days, *Online examination system* is a web-based examination system where examinations are given online. either through the internet or intranet using computer system. The main goal of this online examination system is to effectively evaluate the student thoroughly through a totally automated system that not only reduce the required time but also obtain fast and accurate results.

The online examination system is an electronic application. This framework will help the college/institution to access the inquiry have different alternatives with one right reply. These days Online Examination System is considered a fast-developing examination method because of its speed, accuracy and also because of pandemic(covid19). Virtually all organizations today, are managing their exams by online examination system, meanwhile it reduces student's time in examinations. It is also needed less manpower to handle the examination. Therefore, of this, the result is calculated in less time. It also helps diminishing the need for paper. Online examination project in PHP is very beneficial to learn it, according to today's requirement Online examination system is significantly important to the educational institution to prepare the exams, saving the time and effort that is required to check the exam papers and to prepare the results reports. Online examination system helps the educational institutions to monitor their students and keep eyes

on their progress. The best use of this system in Academic Institute like school, college and training centers because it helps in managing the exams and get the results in easy and an efficient manner.

- ⊕ Online examination will diminish the rushed occupation of estimating the answers given by the applicants physically.
- ⊕ Being a coordinated online examination framework, it will decrease paper work.
- ⊕ To permit workforce to make exams and answer key.
- ⊕ To permit programmed reviewing and manual evaluating which can be recorded per test.
- ⊕ Responses by the candidates will be checked automatically.
- ⊕ It reduces time consumption.

Features

Admin Side-

- ⊕ Admin Can Create New Online Exam with Edit and Delete Feature.
- ⊕ Admin Can Add Question in Exam which has been define at the time of create exam.
- ⊕ Admin Can View All Exam Question with Edit and Delete Operation.
- ⊕ Admin Can view all user data who has register for online examination system.
- ⊕ Admin can view all user who has enrol for particular exam.
- ⊕ Admin can view individual user exam result on web page and in PDF format.
- ⊕ Admin can view combine result of exam with user rank on web

page and in PDF format.

User Side-

- New User Registration for Online Examination with Confirmation Email Feature.
- User can Login into System using Email ID and Password
- User can manage his or her profile details.
- User can change his or her password.
- User can view available examination list.
- User can enrol into examination.
- User can attend online examination at the define date and time.
- User can view the history of exam which he or she had enrol.
- User can view the exam result on Web page and in PDF format also.

TOOLS / ENVIRONMENT USED

Those tools that we are concentrates to design the system are

Back-end design tool:

MySQL software of the database system will be used in developing and managing the back end of the system for permanent storage of records.

MySQL, the most popular open-Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.

MySQL is a database management system.

A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or the vast amounts of information in a corporate network. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play

a central role in computing, as standalone utilities, or as parts of other applications.

MySQL databases are relational.

A relational database stores data in separate tables rather than putting all the data in one big storeroom. The database structures are organized into physical files optimized for speed. The logical model, with objects such as databases, tables, views, rows, and columns, offers a flexible programming environment. You set up rules governing the relationships between different data fields, such as one-to-one, one-to-many, unique, required or optional, and “pointers” between different tables.

The SQL part of “MySQL” stands for “Structured Query Language”. SQL is the most common standardized language used to access databases. Depending on your programming environment, you might enter SQL directly (for example, to generate reports), embed SQL statements into code written in another language, or use a language-specific API that hides the SQL syntax.

MySQL software is Open Source.

Open-Source means that it is possible for anyone to use and modify the software. Anybody can download the MySQL software from the Internet and use it without paying anything. If you wish, you may

study the source code and change it to suit your needs. The MySQL software uses the GPL to define what you may and may not do with the software in different situations.

MySQL Server works in client/server or embedded systems.

The MySQL Database Software is a client/server system that consists of a multithreaded SQL server that supports different back ends, several different client programs and libraries, administrative tools, and a wide range of application programming interfaces (APIs).

The MySQL Database Server is very fast, reliable, scalable, and easy to use.

MySQL Server was originally developed to handle large databases much faster than existing solutions and has been successfully used in highly demanding production environments for several years. Although under constant development, MySQL Server today offers a rich and useful set of functions. Its connectivity, speed, and security make MySQL Server highly suited for accessing databases on the Internet.

- **Front end design tool:**

The user interface will be developed using php integrated development environment. Is a server-side scripting

language that designed for web development, as well as used for general purpose language.

PHP is a server-side scripting language. that is used to develop Static websites or Dynamic websites or Web applications. PHP stands for Hypertext Pre-processor, that earlier stood for Personal Home Pages. A script is a set of programming instructions that is interpreted at runtime. A scripting language is a language that interprets scripts at runtime. Scripts are usually embedded into other software environments. The purpose of the scripts is usually to enhance the performance or perform routine tasks for an application. Server-side scripts are interpreted on the server while client-side scripts are interpreted by the client application. Most web hosting servers support PHP by default unlike other languages such as ASP that need IIS. This makes PHP a cost-effective choice.

- PHP is regularly updated to keep abreast with the latest technology trends.
- Other benefit that you get with PHP is that it's a server-side scripting language; this means you only need to install it on
- The server and client computers requesting for resources from the server do not need to have PHP installed; only a web browser

would be enough.

Other tools used in the system includes

- Microsoft office 2007 for documenting.

Microsoft Office 2007 is a version of Microsoft office, a family of office suites and productivity software for Windows, developed and published by Microsoft.

- Notepad++ or Sublime text 3 or Vs code

Sublime Text has a powerful, Python API that allows plugins to augment built-in functionality. Package control can be installed via the command palette, providing simple access to thousands of packages built by the community.

- Adobe Photoshop: for editing image.

The best photo editing software for spectacular photos and graphics.

- **Methodology of the project:**

In developing this system some methods will be applied in order to accomplish in an effective manner.

➤ Data collection methodology

Data collection is one of the important tasks to analyze how the activities can be done in the proposed system.

- **Interview:** we use this technique to get direct information to those who run the traditional system, the principal of the school and other related persons who have knowledge of alumni.
- **Practical Observation:** we observe physically the current existing system done manually to collect additional information and analysing their difficulties and we observe other social Medias like face book.

ANALYSIS

Data Flow Diagrams (DFD)

- DFD, Data flow diagrams are used to graphically represent the flow of data in a business information system. DFD describes the

processes that are involved in a system to transfer data from the input to the file storage and reports generation.

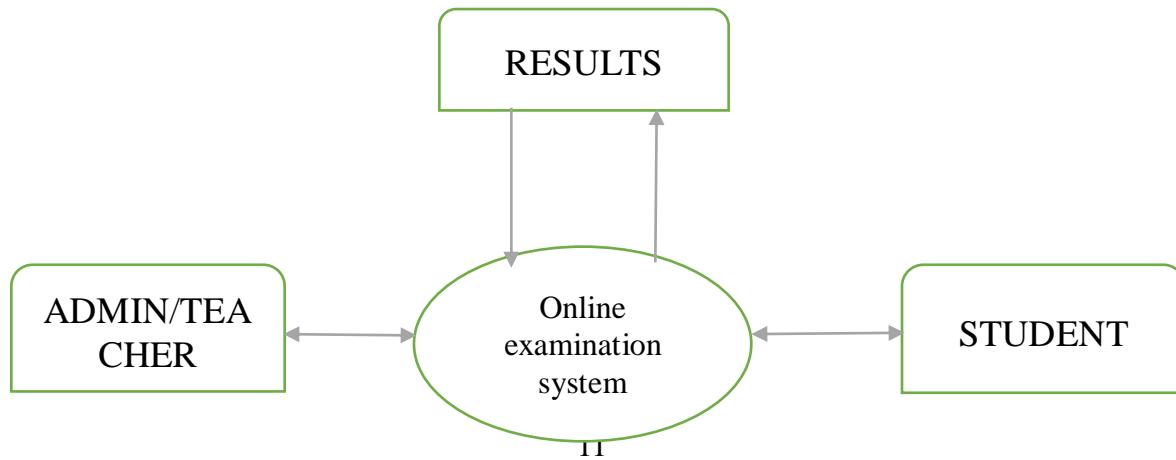
- Data flow diagrams can be divided into logical and physical. The logical data flow diagram describes flow of data through a system to perform certain functionality of a business. The physical data flow diagram describes the implementation of the logical data flow.
 - DFD graphically representing the functions, or processes, which capture, manipulate, store, and distribute data between a system and its environment and between components of a system. The visual representation makes it a good communication tool between User and System designer. Structure of DFD allows starting from a broad overview and expands it to a hierarchy of detailed diagrams.
-
- In Software engineering DFD (data flow diagram) can be drawn to represent the system of different levels of abstraction. Higher level DFDs are partitioned into low levels-hacking more
 - Information and functional elements. Levels in DFD are numbered 0, 1, 2 or beyond. Here, we will see mainly 3 levels in data flow

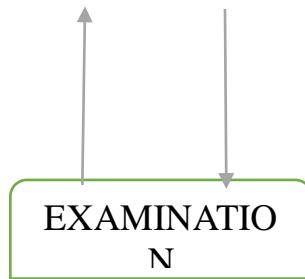
diagram, which are: 0-level DFD, 1-level DFD, and 2-level DFD.

Levels in Data Flow Diagrams (DFD)

- **0-level DFD:**

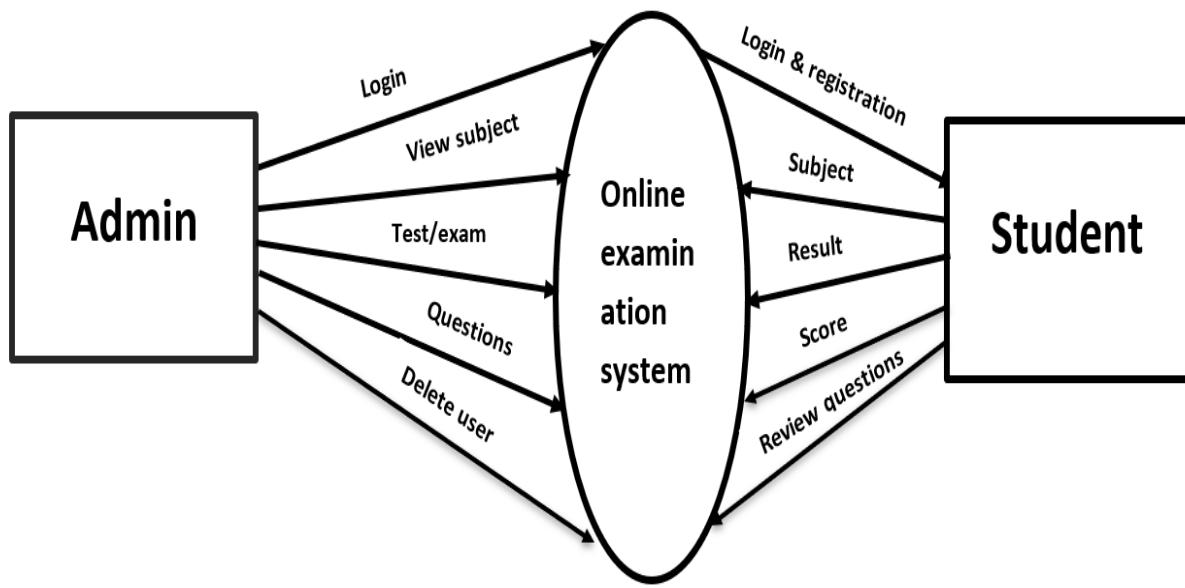
It is also known as context diagram. It's designed to be an abstraction view, showing the system as a single process with its relationship to external entities. It represents the entire system as single bubble with input and output data indicated by incoming/outgoing arrows.





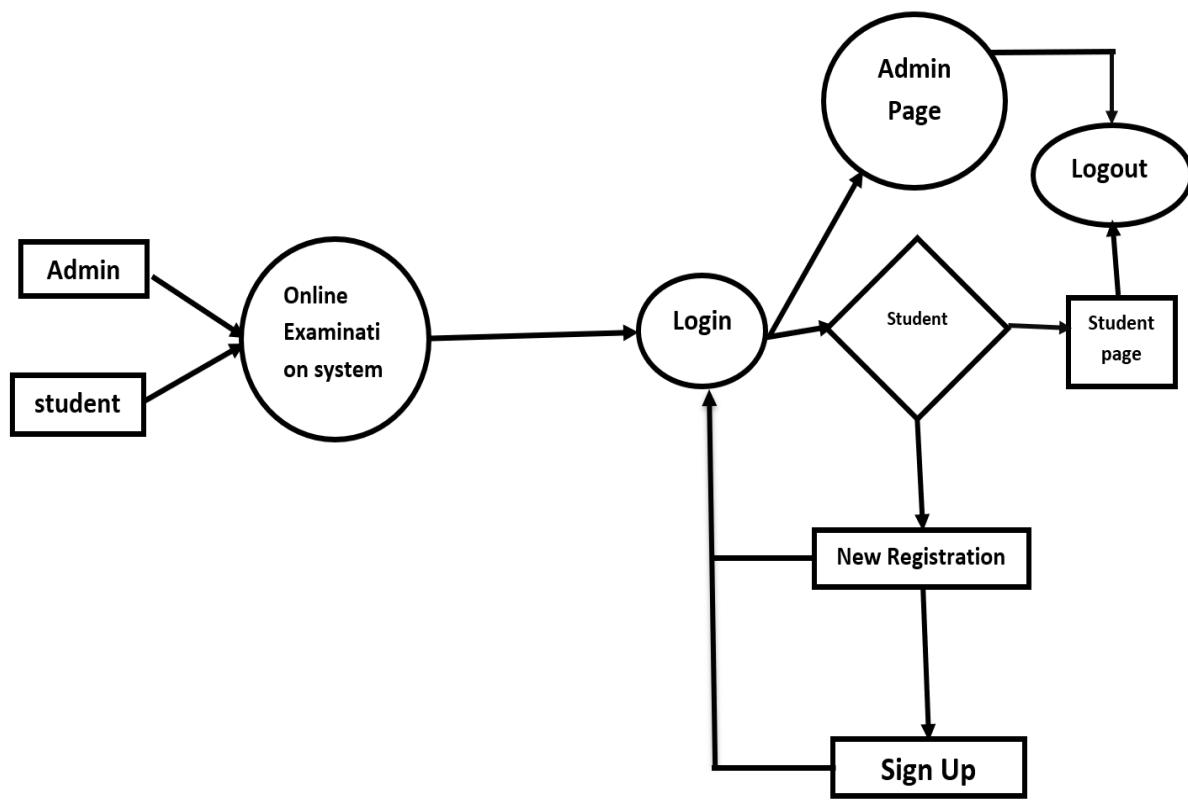
- **1-level DFD:**

In 1-level DFD, context diagram is decomposed into multiple bubbles/processes. in this level we highlight the main functions of the system and breakdown the high-level process of o-level DFD into sub processes.



- **2-level DFD:**

2-level DFD goes one step deeper into parts of 1-level DFD. It can be used to plan or record the specific/necessary detail about the system's functioning.



- **ER Diagram**

Entity relationship diagram displays the relationships of entity set stored in a database. In other words, we can say that ER diagrams help you to explain the logical structure of databases. At first look, an ER diagram looks very similar to the flowchart. However, ER Diagram includes many specialized symbols, and its meanings make this model unique.

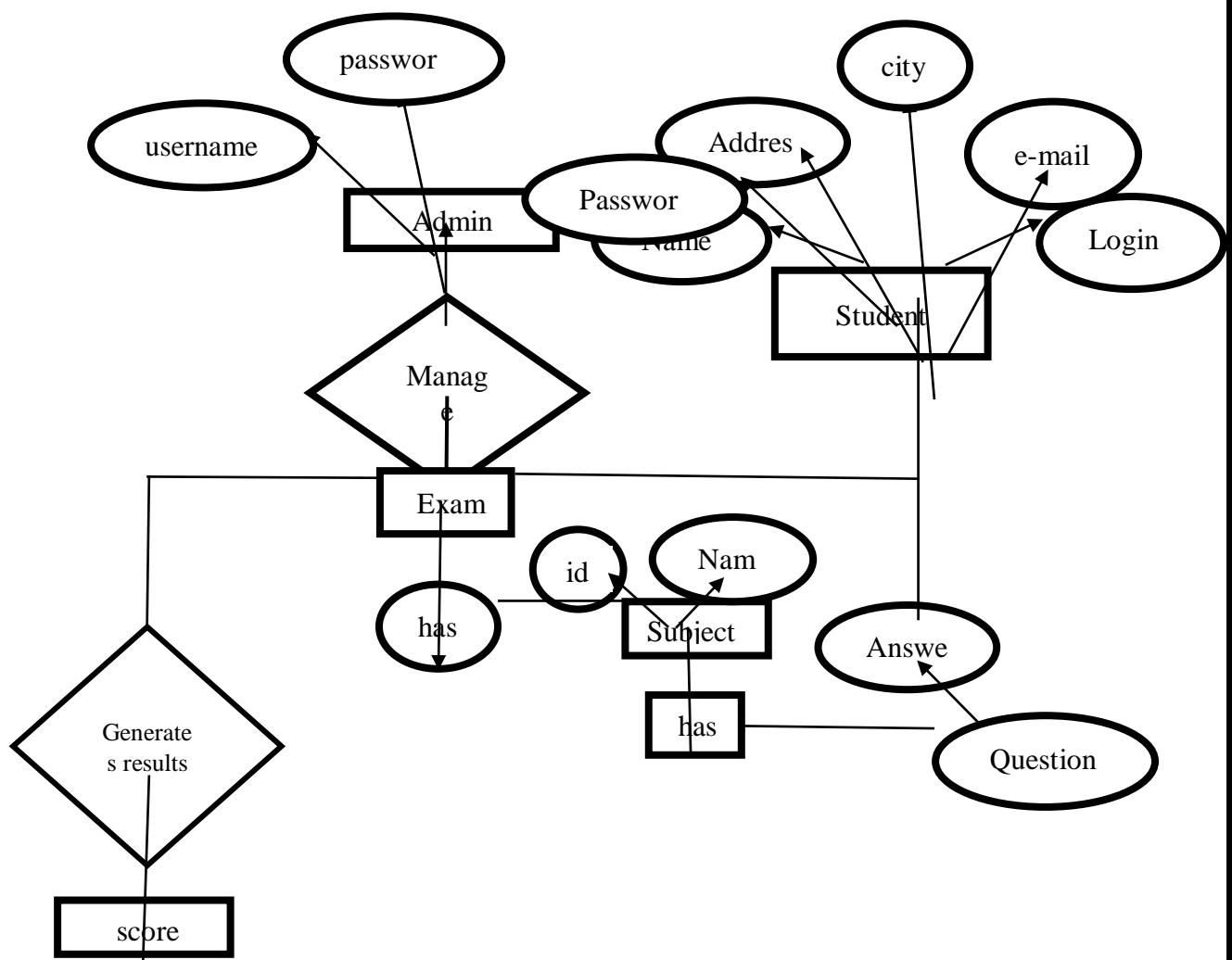
- **Components of the ER Diagram**

This model is based on three basic concepts: Entities, Attributes, Relationships

- **ENTITY RELATIONAL (ER) MODEL**

Is a high-level conceptual data model diagram. ER modeling helps us to analyze data requirements systematically to produce a well-designed database. The Entity-Relation model represents real-world entities and the relationship between them. It is considered a best practice to complete ER modeling before implementing one's database.

- It displays the relationships of entity set stored in a database. In other words, we can say that ER diagrams help us to explain the logical structure of databases. At first look, an ER diagram looks very similar to the flowchart. However, ER Diagram includes many specialized symbols, and its meanings make this model unique. The purpose of ER Diagram is to represent the entity framework infrastructure.



DESIGN

The purpose of designing is to show how the system is built and to obtain clear and enough information needed to make the actual implementation of the system. It is based on understanding of the model the software built on. The objectives of design are to model the system with high quality.

Implementing of high-quality system depend on the nature of design created by the designer. If one want to changes to the system after it has been put in to operation depends on the quality of the system design. So if the system is design effectively, it will be easy to make changes to it.

During system design, we focus on the processes, data structures, and software and hardware components necessary to implement it. The challenge of system design is that many conflicting criteria and constraints need to be met when decomposing the system.

1.1. Class type architecture

The architecture which will be used for the proposed system is a two-tier architecture where the first tier is the client or the user side is a web browser containing user interfaces like data entry interfaces; it is used to display information to the user. User

directly interacts with the system through the interfaces on this layer. The second layer is the storage layer (server side) which is the MySQL database that stores the data. This increase the extensibility, maintainability and portability of the new system. This class type architecture includes interface class, controller class, business class, system class, and persistence class and

persistence store.

Interface classes: - These classes initiate access to the logic of our system and this interface class is the UI classes that provide people access to our system. An example of interface class is login interface class.

Business classes: - These classes implement the concepts and focusing on the data aspects of the business objects, plus behaviors specific to individual objects of the system. Examples:-Record new member, uploading file, delivering information and generate discussion forum.

Controller classes: - These classes implement business logic that involves collaborating with several domain classes or even other process classes.

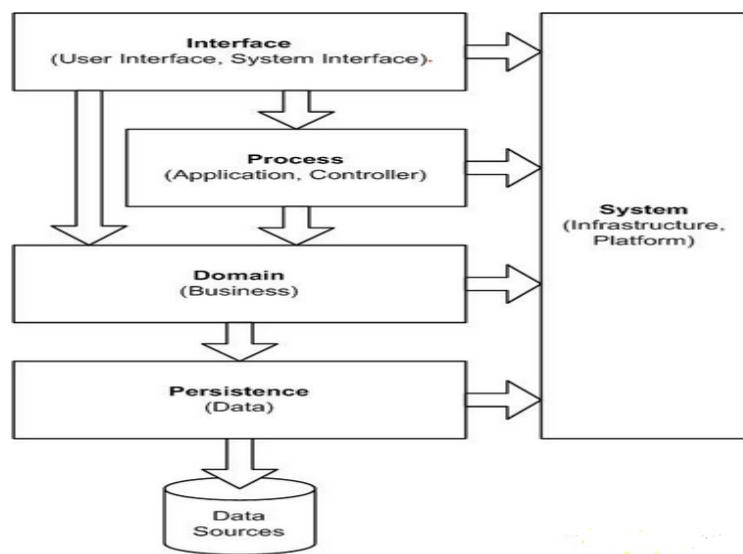
Examples of Controller classes are password, user name and account type.

Persistence classes: - These classes can be used to the capability of store, retrieve, and delete objects permanently without revealing details of the underlying storage technology.

Example of this class is database class.

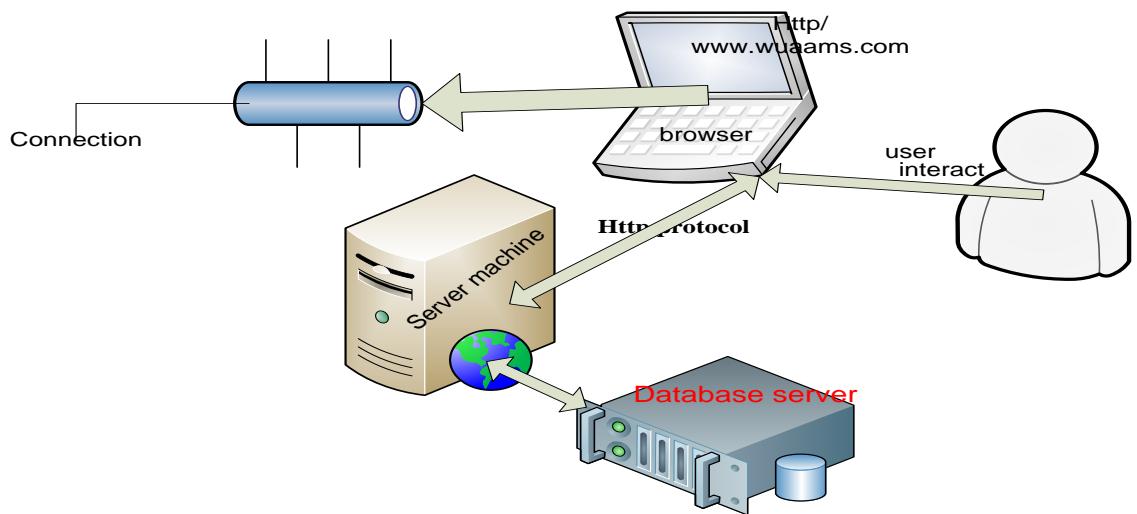
System classes: - These classes provide operating-system-specific functionality for your applications, isolating your software from the operating system (OS) by initiating OS-specific features, increasing the portability of your application.

Persistence store: -These classes can be used to store data permanently on the database that we can retrieve by other classes.



All types of classes interact with system classes. This is because new systems layer implements fundamental software features.

Architecture of the system



TESTING

- **UNIT TESTING**

Unit testing is a level of software testing where individual units/components of software are tested. The purpose is to validate that each unit of the software performs as designed. A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output. In procedural programming, a unit may be an individual program, function, procedure, etc. in object-oriented programming, the smallest unit is a method,

which may belong to a base/ super class, abstract class or derived/ child class. (Some treat a module of an application as a unit. It is concerned with functional correctness of the standalone modules. The main aim is to isolate each unit of the system to identify, analyze and fix the defects. A unit test is a way of testing a unit – the smallest piece of code that can be logically isolated in a system. In most programming languages, that is a function, a subroutine, a method or property. The isolated part of the definition is important.

Unit Testing Techniques:

- **Black Box Testing** - Using which the user interface, input and output are tested.
- **White Box Testing** - used to test each one of those functions behaviors is tested.

- **Gray Box Testing** - Used to execute tests, risks and assessment methods.
- **Integration Testing**

Integration Testing is a level of software testing where individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units. Test drivers and test stubs are used to assist in Integration Testing. It is defined as a type of testing where software modules are integrated logically and tested as a group. A typical software project consists of multiple software modules, coded by different programmers. The purpose of this level of testing is to expose defects in the interaction between these software modules when they are Integrated. Integration Testing focuses on checking data communication amongst these modules. Hence it is also termed as '**I & T**' (Integration and Testing), '**String Testing**' and sometimes '**Thread Testing**'.

Approaches, Strategies, Methodologies of Integration Testing

Software Engineering defines variety of strategies to execute Integration testing, viz.

- Big Bang Approach
- Incremental Approach: which is further divided into the

following

- Top-Down Approach
- Bottom-Up Approach
- Sandwich Approach - Combination of Top Down and Bottom Up

System Testing

System Testing is a level of testing that validates the complete and fully integrated software product. The purpose of a system test is to evaluate the end-to-end system specifications. Usually, the software is only one element of a larger computer-based system. Ultimately, the software is interfaced with other software/hardware systems. System Testing is actually a series of different tests whose sole purpose is to exercise the full computer-based system.

System Testing is carried out on the whole system in the context of either system requirement specifications or functional requirement specifications or in the context of both. System testing tests the design and behavior of the system and also the expectations of the customer. It is performed to test the system beyond the bounds mentioned in the software requirements specification (SRS).

In system testing, integration testing passed components are taken as input. The goal of integration testing is to detect any irregularity between the units that are integrated together. System testing detects defects within both the integrated units and the whole system. The result of system testing is the observed behavior of a component or a system when it is tested. System Testing is basically performed by a testing team that is independent of the development team that helps to test the quality of the system impartial. It has both functional and non-functional testing. System Testing is a black-box testing. It is performed after the integration testing and before the acceptance testing.

Types of System Testing

- Performance Testing:**

Performance Testing is a type of software testing that is carried out to test the speed, scalability, stability and reliability of the software product or application.

- Load Testing:**

Load Testing is a type of software Testing which is carried out to determine the behavior of a system or software product

under extreme load.

- **Stress Testing:**

Stress Testing is a type of software testing performed to check the robustness of the system under the varying loads.

- **Scalability Testing:**

Scalability Testing is a type of software testing which is carried out to check the performance of a software application or system in terms of its capability to scale up or scale down the number of user request load.

System testing is important since:

- a) In Software Development Life Cycle the System Testing is perform as the first level of **testing** where the System is tested as a whole.
- b) System Testing enables you to test, validate and verify both the Application Architecture and Business requirements.

In our project we are testing whether the student is authorized or not. When student want to register themselves, it will check whether the student id and name entered is the same as in the database. If authorized student has login, they can register themselves. If not authorized then, back to main page. We are also checking the admin login whether it is authorized or not. Only authorized admin can login. No one can register themselves as admin. Admin can change username and password in admin page only. Member login is also verified from the database values.

Input and Output

LOGIN PAGE



LOGIN ID

admin

ENTER PASSWORD

.....

Login

New user ? click here



Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

Your Login ID himanshi Created Sucessfully

Please Login using your Login ID to take Quiz

[Login](#)

Activate Windows
Go to Settings to activate Windows.



LOGIN ID himansi

Password

Confirm Password

Name himansi mourya

Address bhopal

City bhopal

Phone 1234567893

E-mail himashi@gmail.com

Signup

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

Welcome to Online Exam



Subject for Quiz



Result

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

[Home](#) | [Signout](#)

Select Subject to Give Quiz

VB

Oracle

Java

PHP

Computer Fundamental

Networking

mysql

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

[Home](#) | [Signout](#)

Que 1: Which of the following contexts are available in the add watch window?

- Project
- Module
- Procedure
- All

[Next Question](#)

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

[Home](#) | [Signout](#)

Result

Total Question 5

True Answer 1

Wrong Answer 4

Review Question

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

[Home](#) | [Signout](#)

Review Test Question

Que 1: Which of the following contexts are available in the add watch window?

Project

Module

Procedure

All

[Next Question](#)

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Exmination Portal

[Home](#) | [Signout](#)

Result

Test Name	Total Question	Score
Essentials of VB	5	1

Activate Windows
Go to Settings to activate Windows.

Welcome to Online Exam localhost / 127.0.0.1 / quiz localhost / 127.0.0.1 | php New tab Welcome to Online Exam

Activate Windows
Go to Settings to activate Windows.

Welcome to Online Quiz



Welcome to Online exam. This Site will provide the quiz for various subject of interest. You need to login for the take the online exam.

LOGIN PAGE



Activate Windows
Go to Settings to activate Windows.

Type here to search O File Explorer Edge Chrome File History Firefox ENG 9:37 PM 3/31/2021

Online Examination Portal

Online Exmination Portal

view Subject view Test View Question view user Admin Home Signout

Adminstrative Login

Login ID
Password

Login

Online Examination Portal

Online Exmination Portal

view Subject view Test View Question view user Admin Home Signout

Add Subject

ID	name	Update	Delete
1	VB		
2	Oracle		
3	Java		
4	PHP		
5	Computer Fundamental		
6	Networking		
7	mysql		

Online Examination Portal				
Online Examination Portal				
view Subject		view Test	View Question	view user
Add Test				
ID	name	Total question	Update	Delete
8	VB Basic Test	3		
9	Essentials of VB	5		
10	Creating User Services	5		
11	function	5		

Online Examination Portal				
Online Examination Portal				
view Subject		view Test	View Question	view user
Add Question				
ID	Question		Update	Delete
16	What Default Data Type ?			
17	What is Default Form Border Style ?			
18	Which is not type of Control ?			
19	Which of the following contexts are available in the add watch window?			
20	Which window will allow you to halt the execution of your code when a variable changes?			
22	How can you print the object name associated with the last VB error to the Immediate window?			
23	How can you print the object name associated with the last VB error to the Immediate window?			
24	What function does the TabStop property on a command button perform?			
25	You application creates an instance of a form. What is the first event that will be triggered in the from?			
26	Which of the following is Hungarian notation for a menu?			
27	You are ready to run your program to see if it works. Which key on your keyboard will start the program?			
28	Which of the following snippets of code will unload a form named frmF00m from memory?			
29	You want the text in text box named txtMyText to read My Text in which property will you place this string?			
30	how to use date() in mysql ?			
31	how to use date() in mysql ?			

Online Examination Portal				
Online Examination Portal				
view Subject		view Test	View Question	view user
Registered User Detail				
UserID	Name	Email	Delete User	
raj	Rajen	raj@yahoo.com		
ashish	ashish	ashish@yahoo.com		
Dhaval123	a	dhaval@yahoo.com		

Database

Server: 127.0.0.1 » Database: quiz_new » Table: mst_admin

The screenshot shows the MySQL Workbench interface for the 'mst_admin' table. The table has three columns: id, loginid, and pass. The 'id' column is defined as int(11) with AUTO_INCREMENT, 'loginid' as varchar(50), and 'pass' as varchar(50). All columns have a collation of latin1_swedish_ci.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	loginid	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
3	pass	varchar(50)	latin1_swedish_ci		No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Server: 127.0.0.1 » Database: quiz_new » Table: mst_question

The screenshot shows the MySQL Workbench interface for the 'mst_question' table. The table has nine columns: que_id, test_id, que_desc, ans1, ans2, ans3, ans4, true_ans, and a primary key que_id. The 'que_id' column is int(5) with AUTO_INCREMENT, 'test_id' is int(5), 'que_desc' is varchar(150), and 'true_ans' is int(1). The other four answer columns (ans1, ans2, ans3, ans4) are varchar(75).

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	que_id	int(5)			No	None		AUTO_INCREMENT	Change Drop More
2	test_id	int(5)			Yes	NULL			Change Drop More
3	que_desc	varchar(150)	latin1_swedish_ci		Yes	NULL			Change Drop More
4	ans1	varchar(75)	latin1_swedish_ci		Yes	NULL			Change Drop More
5	ans2	varchar(75)	latin1_swedish_ci		Yes	NULL			Change Drop More
6	ans3	varchar(75)	latin1_swedish_ci		Yes	NULL			Change Drop More
7	ans4	varchar(75)	latin1_swedish_ci		Yes	NULL			Change Drop More
8	true_ans	int(1)			Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Server: 127.0.0.1 » Database: quiz_new » Table: mst_result

The screenshot shows the MySQL Workbench interface for the 'mst_result' table. The table has four columns: login, test_id, test_date, and score. The 'login' column is varchar(20), 'test_id' is int(5), 'test_date' is date, and 'score' is int(3).

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	login	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More
2	test_id	int(5)			Yes	NULL			Change Drop More
3	test_date	date			Yes	NULL			Change Drop More
4	score	int(3)			Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Server: 127.0.0.1 » Database: quiz_new » Table: mst_subject

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 sub_id	int(5)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 sub_name	varchar(25)	latin1_swedish_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Server: 127.0.0.1 » Database: quiz_new » Table: mst_test

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 test_id	int(5)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 sub_id	int(5)			Yes	NULL			Change Drop More
<input type="checkbox"/>	3 test_name	varchar(30)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	4 total_que	varchar(15)	latin1_swedish_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Server: 127.0.0.1 » Database: quiz_new » Table: mst_user

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 user_id	int(5)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 login	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	3 pass	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	4 username	varchar(30)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	5 address	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	6 city	varchar(15)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	7 phone	int(10)			Yes	NULL			Change Drop More
<input type="checkbox"/>	8 email	varchar(30)	latin1_swedish_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	sess_id	varchar(80)	latin1_swedish_ci		Yes	NULL		Change	Drop More
2	test_id	int(11)			Yes	NULL		Change	Drop More
3	que_des	varchar(200)	latin1_swedish_ci		Yes	NULL		Change	Drop More
4	ans1	varchar(50)	latin1_swedish_ci		Yes	NULL		Change	Drop More
5	ans2	varchar(50)	latin1_swedish_ci		Yes	NULL		Change	Drop More
6	ans3	varchar(50)	latin1_swedish_ci		Yes	NULL		Change	Drop More
7	ans4	varchar(50)	latin1_swedish_ci		Yes	NULL		Change	Drop More
8	true_ans	int(11)			Yes	NULL		Change	Drop More
9	your_ans	int(11)			Yes	NULL		Change	Drop More

With selected: Check all Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

ADVANTAGES OF ONLINE EXMINATION SYSTEM:

- Online Examination System is a computerized system which gives instant results and also saves time.
- It fully automates the previous manual process of taking written exams.
- It is implemented by web based online examination software or through Intranet variance. It decreases the need of supervision during the exam is being examine or taken using web based Online Examination System gives a high level of clarity as opposite of traditional method. Most of Online Examination System gives the result and instantly.
- In high school, Online Examination System is able to reduce the workload of teachers by using automated test paper exams and marking schemes.
- Students can study independently for example at home or any

place.

- The amount of time given at a particular question gives you the ability of “Quick Learning Quick Thinking.”
- The data in Online Examination System is regenerated repeatedly so that students have access to new data.
- In current scenario, because of COVID-19 we can use “online examination system”.

DISADVANTAGES OF ONLINE EXAMINATION SYSTEM:

- The question and answers may be tricky and confusing as there are multiple choices for answers.
- Lack of interaction between the teacher and student.
- Network problems may arise in Online Examination System, test may be postponed or cancel.
- As India is not a fully developed country problem may arise in rural areas where there is deficiency of computers or where computers are not yet discovered.
- Hackers can easily manage to achieve confidential data through fake online application or websites.
- While attempting online exams we can easily manage to open another window on existing computer.
- Teaching techniques of an instructor or teacher may vary from online exam questions.

FUTURE SCOPE OF ONLINE EXAMINATION SYSTEM:

- Online Examination System is widely used as compared to other exams. Online examination system can be used in private institutes as well as educational institution.
- It is user friendly web base application it can be used anywhere and anytime.
- The main purpose of the system is to efficiently evaluate the candidate thoroughly through a fully automated system that not only saves a lot of time but also gives fast result and saves paper.
- The faculty prepares the tests and question for each exam.
- The question are shuffled in a random order so that possibility for getting questions in the same order for the student how are beside, it is very less.

Feasibility Study

- **Technical Feasibility**

Building this system is technically feasible. The hardware and software needed are all available, it not difficult to get them. Brief I can say the necessary resources needed for the development and maintenance of the system are available. I am going to use “PHP

and MySQL".

- **Operationally Feasibility**

The project I am developing is operationally feasible as there is no need for users to have good knowledge in computer before using it. The user can learn and use the system with easiness; he just needs to read the manual or tutorial from the developers.

- **Economic Feasibility**

Besides being technically feasible, developing this system is economically feasible as well. The development of the system does not require the developers to spend a lot of money. The tools I will be using to develop the system are not expensive and the software's are open source. All I need is time. Even the maintenance of the system will not be expensive. The system is indeed economically feasible.

Security

Online examination system as an important part of the assessment of student's learning outcomes, which needs to be confidential to the examinee and the related questions. The related data and operation must ensure the safety of the whole system. For system operators, admin need to assigns different operating authority. Before operating, the system needs to authenticate the user's access. Only an operator with corresponding rights is allowed to related operations, otherwise, his operations are refused. In addition, the system interfaces of the user are not allowed to access or operate are hidden. In order to ensure the data security of the system, it is necessary to strengthen the security of database management system, preventing illegal data destruction and loss of important data. In database security, mandatory access control and custom access

control need to be implemented. The system assigns different user roles for different database users, and grants the permissions for user. In addition, the system needs to strengthen the management of user access permissions. Only a specific permission operator can do the corresponding operation. The system needs to adopt two methods of access control and network control, ensuring no unauthorized access to the whole system and no illegal use to each function.

Limitation of project

- In case of any type of problem in student verification no functionality is define in a system to correct it or intercommunication among user are also not available.
- Online examination system is restricted to multiple choice question which can be inefficient in assessing a student's topic Mastery. Exams in the form of debates, essays, case-based questions and oral exams are difficult to conduct online.
- Online examination system does not support for adding images with question so questions containing diagram can not be saved in the system.
- It has no real existence in internet just tested on localhost.
- Skip of questions is not possible and the question is not displayed randomly.
- There is no negative marking and there is no fixed time and

date for online exam, It can lead to excessive cheating.

- Not suitable for collaborative evaluations or group project.
- There are subject like mathematics, economic, science, that are difficult to attempt online as include formulae

Conclusion

Online Examination System is significantly superior among the other exams. We have come to result that the problems can be solved by introducing new security systems using biometrics, we can identify the student's true identity by analyzing digital signature or by finger print mechanism and also by providing web cameras in the examination hall. Although web cameras sometimes gets failed, if supposed a candidate is giving exam and facing downwards in such case Iris recognition and face recognition must be used. We conclude that no mechanism is ideal. Each mechanism has some restriction on its own. Key concepts are to develop paperless environment and to convert all the documentation in digital form. With the completion of this project, we conclude that it has achieved its purpose. The whole project provides a base for students to take their exam using software and allow teacher to add questions and answers into the system. The system is developed using PHP and MySQL are saved in the database. Online examination system for introduction to management course is the best compared to paper-based exam. The automated system helps students and lecturers to save time and makes the process faster. It saves space since answers papers will not be used. With a user-friendly system that has security, integrity and the database is neither inconsistent nor redundant.

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www.irjet.net
www.ijariie.com

THE BHOPAL SCHOOL OF SOCIAL SCIENCES

PROJECT REPORT

On

Online Examination System

SUBMITTED TO

DEPARTMENT OF COMPUTER APPLICATIONS



IN PARTIAL FULLFILMENT
OF THE DEGREE OF
BACHELOR OF COMPUTER APPLICATIONS (BCA)
SESSION (2020-21)

By

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CERTIFICATE OF ORIGINALITY

This is to certify that the project report entitled “ONLINE EXAMINATION SYSTEM” Submitted to The Bhopal School of Social Sciences, in partial fulfillment of the requirement for the award of the degree of Bachelor in Computer Applications (BCA), is an original work carried out by

Ms. Megha Paliwal, Enrollment No.: R190190270017, Roll No.: 18031024 and

Ms. Himanshi Mourya, Enrollment No.: R190190270012, Roll No.: 18031019

The matter embodied in this project is a genuine work done by the students and has not been submitted whether to this University or to any other University / Institute for the fulfillment of the requirement of any course of study.

Signature of the Guide

Name: Mr. Zeeshan Ahmed Siddiqui

Designation: Assistant Professor

Address of the Guide: BSSS, Bhopal

DECLARATION

We do hereby declare that the project work entitled “Online Examination system” submitted by us for the partial fulfillment of the requirement for the award of Bachelor in Computer Applications (BCA), is an authentic work completed by us. The report being submitted has not been submitted earlier for the award of any degree or diploma to any Institute or University.

Date:

Signature:

Name: Himanshi Mourya

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Signature:

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Signature:

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Signature:

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Introduction & Objectives

These days, *Online examination system* is a web-based examination system where examinations are given online. either through the internet or intranet using computer system. The main goal of this online examination system is to effectively evaluate the student thoroughly through a totally automated system that not only reduce the required time but also obtain fast and accurate results.

The online examination system is an electronic application. This framework will help the college/institution to access the inquiry have different alternatives with one right reply. These days Online Examination System is considered a fast-developing examination method because of its speed, accuracy and also because of pandemic(covid19). Virtually all organizations today, are managing their exams by online examination system, meanwhile it reduces student's time in examinations. It is also needed less manpower to handle the examination. Therefore, of this, the result is calculated in less time. It also helps diminishing the need for paper. Online examination project in PHP is very beneficial to learn it, according to today's requirement Online examination system is significantly important to the educational institution to prepare the exams, saving the time and effort that is required to check the exam papers and to prepare the results reports. Online examination system helps the educational institutions to monitor their students and keep eyes

on their progress. The best use of this system in Academic Institute like school, college and training centers because it helps in managing the exams and get the results in easy and an efficient manner.

- ⊕ Online examination will diminish the rushed occupation of estimating the answers given by the applicants physically.
- ⊕ Being a coordinated online examination framework, it will decrease paper work.
- ⊕ To permit workforce to make exams and answer key.
- ⊕ To permit programmed reviewing and manual evaluating which can be recorded per test.
- ⊕ Responses by the candidates will be checked automatically.
- ⊕ It reduces time consumption.

Features

Admin Side-

- ⊕ Admin Can Create New Online Exam with Edit and Delete Feature.
- ⊕ Admin Can Add Question in Exam which has been define at the time of create exam.
- ⊕ Admin Can View All Exam Question with Edit and Delete Operation.
- ⊕ Admin Can view all user data who has register for online examination system.
- ⊕ Admin can view all user who has enrol for particular exam.
- ⊕ Admin can view individual user exam result on web page and in PDF format.
- ⊕ Admin can view combine result of exam with user rank on web

page and in PDF format.

User Side-

- New User Registration for Online Examination with Confirmation Email Feature.
- User can Login into System using Email ID and Password
- User can manage his or her profile details.
- User can change his or her password.
- User can view available examination list.
- User can enrol into examination.
- User can attend online examination at the define date and time.
- User can view the history of exam which he or she had enrol.
- User can view the exam result on Web page and in PDF format also.

TOOLS / ENVIRONMENT USED

Those tools that we are concentrates to design the system are

Back-end design tool:

MySQL software of the database system will be used in developing and managing the back end of the system for permanent storage of records.

MySQL, the most popular open-Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.

MySQL is a database management system.

A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or the vast amounts of information in a corporate network. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play

a central role in computing, as standalone utilities, or as parts of other applications.

MySQL databases are relational.

A relational database stores data in separate tables rather than putting all the data in one big storeroom. The database structures are organized into physical files optimized for speed. The logical model, with objects such as databases, tables, views, rows, and columns, offers a flexible programming environment. You set up rules governing the relationships between different data fields, such as one-to-one, one-to-many, unique, required or optional, and “pointers” between different tables.

The SQL part of “MySQL” stands for “Structured Query Language”. SQL is the most common standardized language used to access databases. Depending on your programming environment, you might enter SQL directly (for example, to generate reports), embed SQL statements into code written in another language, or use a language-specific API that hides the SQL syntax.

MySQL software is Open Source.

Open-Source means that it is possible for anyone to use and modify the software. Anybody can download the MySQL software from the Internet and use it without paying anything. If you wish, you may

study the source code and change it to suit your needs. The MySQL software uses the GPL to define what you may and may not do with the software in different situations.

MySQL Server works in client/server or embedded systems.

The MySQL Database Software is a client/server system that consists of a multithreaded SQL server that supports different back ends, several different client programs and libraries, administrative tools, and a wide range of application programming interfaces (APIs).

The MySQL Database Server is very fast, reliable, scalable, and easy to use.

MySQL Server was originally developed to handle large databases much faster than existing solutions and has been successfully used in highly demanding production environments for several years. Although under constant development, MySQL Server today offers a rich and useful set of functions. Its connectivity, speed, and security make MySQL Server highly suited for accessing databases on the Internet.

- **Front end design tool:**

The user interface will be developed using php integrated development environment. Is a server-side scripting

language that designed for web development, as well as used for general purpose language.

PHP is a server-side scripting language. that is used to develop Static websites or Dynamic websites or Web applications. PHP stands for Hypertext Pre-processor, that earlier stood for Personal Home Pages. A script is a set of programming instructions that is interpreted at runtime. A scripting language is a language that interprets scripts at runtime. Scripts are usually embedded into other software environments. The purpose of the scripts is usually to enhance the performance or perform routine tasks for an application. Server-side scripts are interpreted on the server while client-side scripts are interpreted by the client application. Most web hosting servers support PHP by default unlike other languages such as ASP that need IIS. This makes PHP a cost-effective choice.

- PHP is regularly updated to keep abreast with the latest technology trends.
- Other benefit that you get with PHP is that it's a server-side scripting language; this means you only need to install it on
- The server and client computers requesting for resources from the server do not need to have PHP installed; only a web browser

would be enough.

Other tools used in the system includes

- Microsoft office 2007 for documenting.

Microsoft Office 2007 is a version of Microsoft office, a family of office suites and productivity software for Windows, developed and published by Microsoft.

- Notepad++ or Sublime text 3 or Vs code

Sublime Text has a powerful, Python API that allows plugins to augment built-in functionality. Package control can be installed via the command palette, providing simple access to thousands of packages built by the community.

- Adobe Photoshop: for editing image.

The best photo editing software for spectacular photos and graphics.

- **Methodology of the project:**

In developing this system some methods will be applied in order to accomplish in an effective manner.

➤ Data collection methodology

Data collection is one of the important tasks to analyze how the activities can be done in the proposed system.

- **Interview:** we use this technique to get direct information to those who run the traditional system, the principal of the school and other related persons who have knowledge of alumni.
- **Practical Observation:** we observe physically the current existing system done manually to collect additional information and analysing their difficulties and we observe other social Medias like face book.

ANALYSIS

Data Flow Diagrams (DFD)

- DFD, Data flow diagrams are used to graphically represent the flow of data in a business information system. DFD describes the

processes that are involved in a system to transfer data from the input to the file storage and reports generation.

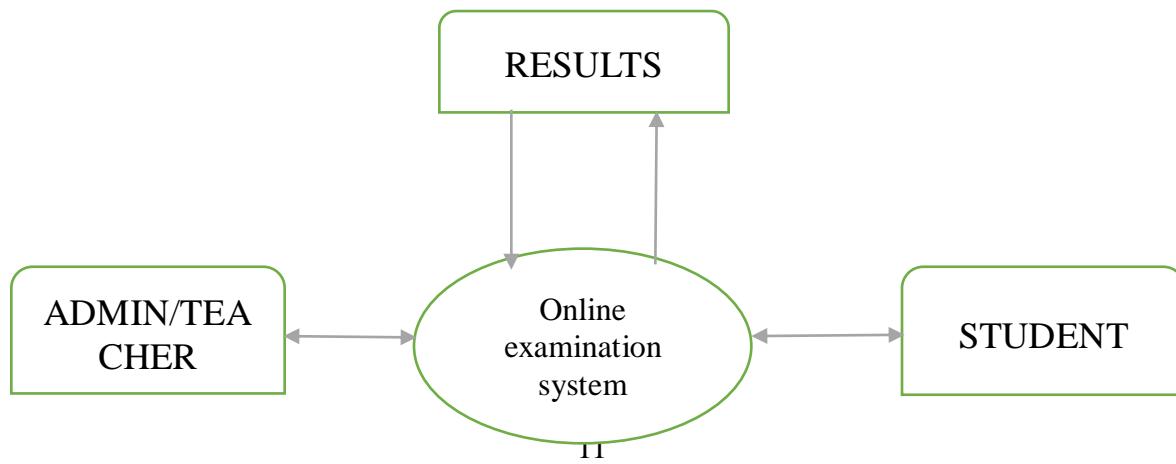
- Data flow diagrams can be divided into logical and physical. The logical data flow diagram describes flow of data through a system to perform certain functionality of a business. The physical data flow diagram describes the implementation of the logical data flow.
 - DFD graphically representing the functions, or processes, which capture, manipulate, store, and distribute data between a system and its environment and between components of a system. The visual representation makes it a good communication tool between User and System designer. Structure of DFD allows starting from a broad overview and expands it to a hierarchy of detailed diagrams.
-
- In Software engineering DFD (data flow diagram) can be drawn to represent the system of different levels of abstraction. Higher level DFDs are partitioned into low levels-hacking more
 - Information and functional elements. Levels in DFD are numbered 0, 1, 2 or beyond. Here, we will see mainly 3 levels in data flow

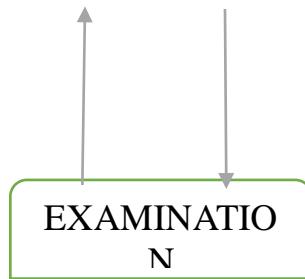
diagram, which are: 0-level DFD, 1-level DFD, and 2-level DFD.

Levels in Data Flow Diagrams (DFD)

- **0-level DFD:**

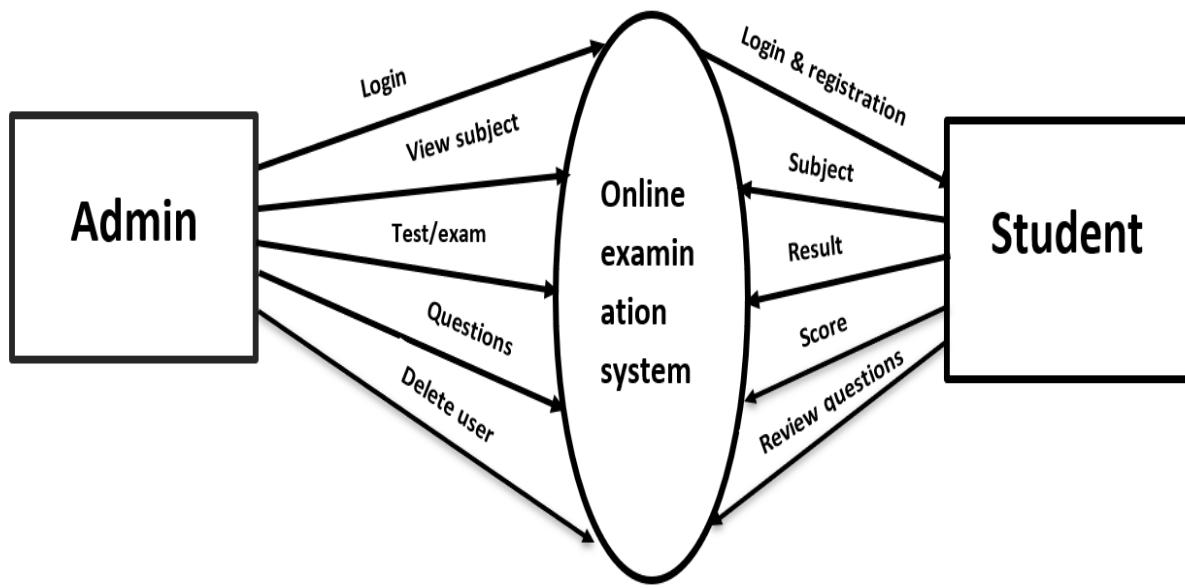
It is also known as context diagram. It's designed to be an abstraction view, showing the system as a single process with its relationship to external entities. It represents the entire system as single bubble with input and output data indicated by incoming/outgoing arrows.





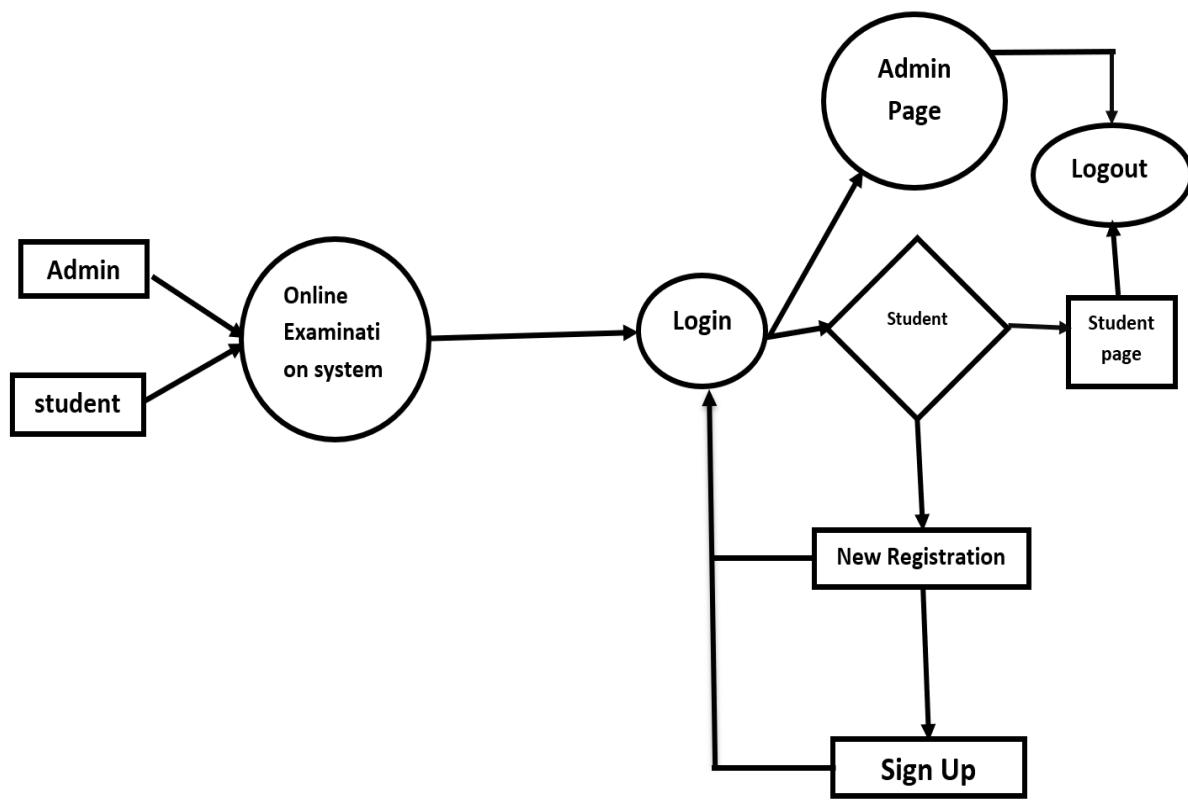
- **1-level DFD:**

In 1-level DFD, context diagram is decomposed into multiple bubbles/processes. in this level we highlight the main functions of the system and breakdown the high-level process of o-level DFD into sub processes.



- **2-level DFD:**

2-level DFD goes one step deeper into parts of 1-level DFD. It can be used to plan or record the specific/necessary detail about the system's functioning.



- **ER Diagram**

Entity relationship diagram displays the relationships of entity set stored in a database. In other words, we can say that ER diagrams help you to explain the logical structure of databases. At first look, an ER diagram looks very similar to the flowchart. However, ER Diagram includes many specialized symbols, and its meanings make this model unique.

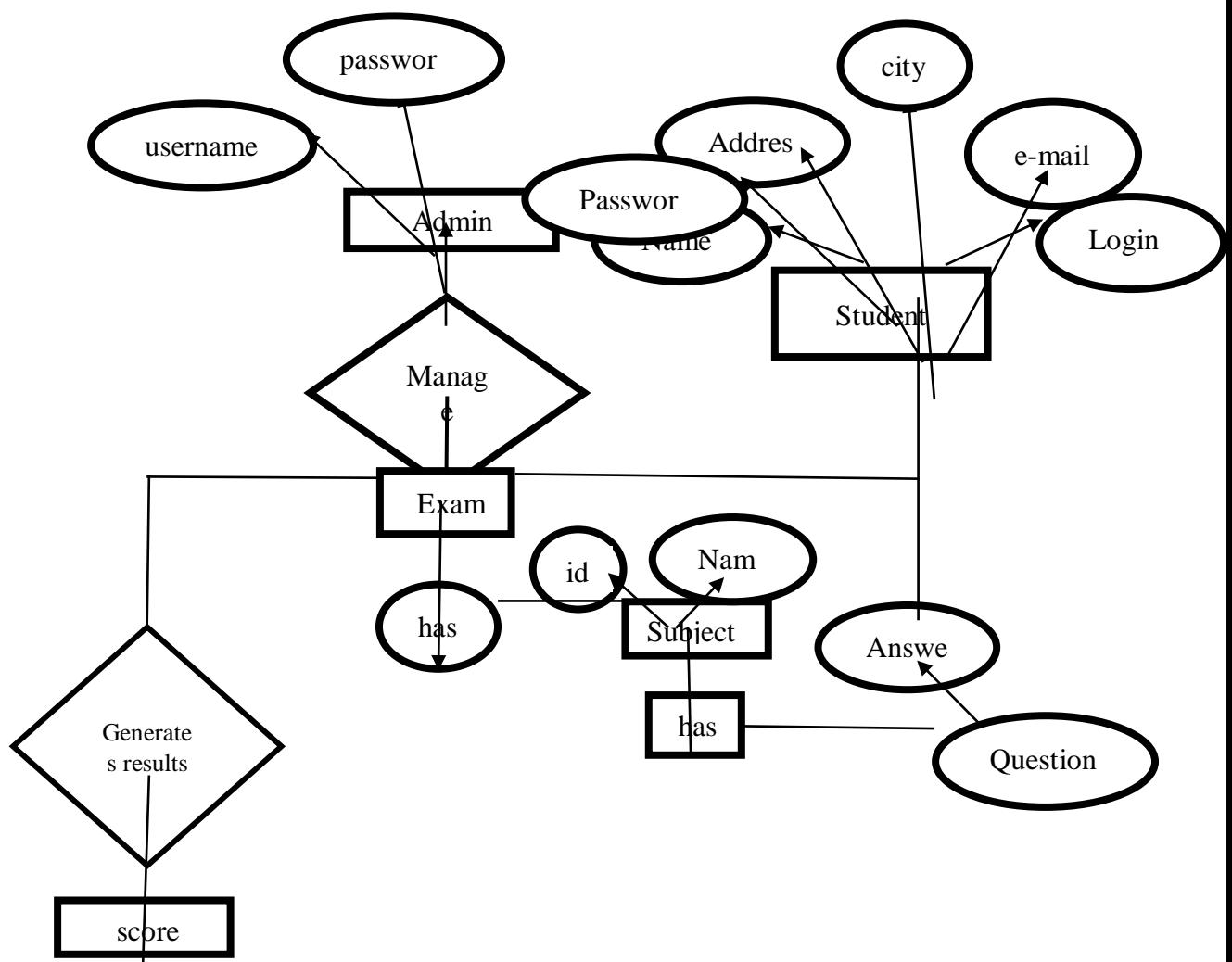
- **Components of the ER Diagram**

This model is based on three basic concepts: Entities, Attributes, Relationships

- **ENTITY RELATIONAL (ER) MODEL**

Is a high-level conceptual data model diagram. ER modeling helps us to analyze data requirements systematically to produce a well-designed database. The Entity-Relation model represents real-world entities and the relationship between them. It is considered a best practice to complete ER modeling before implementing one's database.

- It displays the relationships of entity set stored in a database. In other words, we can say that ER diagrams help us to explain the logical structure of databases. At first look, an ER diagram looks very similar to the flowchart. However, ER Diagram includes many specialized symbols, and its meanings make this model unique. The purpose of ER Diagram is to represent the entity framework infrastructure.



DESIGN

The purpose of designing is to show how the system is built and to obtain clear and enough information needed to make the actual implementation of the system. It is based on understanding of the model the software built on. The objectives of design are to model the system with high quality.

Implementing of high-quality system depend on the nature of design created by the designer. If one want to changes to the system after it has been put in to operation depends on the quality of the system design. So if the system is design effectively, it will be easy to make changes to it.

During system design, we focus on the processes, data structures, and software and hardware components necessary to implement it. The challenge of system design is that many conflicting criteria and constraints need to be met when decomposing the system.

1.2. Class type architecture

The architecture which will be used for the proposed system is a two-tier architecture where the first tier is the client or the user side is a web browser containing user interfaces like data entry interfaces; it is used to display information to the user. User

directly interacts with the system through the interfaces on this layer. The second layer is the storage layer (server side) which is the MySQL database that stores the data. This increase the extensibility, maintainability and portability of the new system. This class type architecture includes interface class, controller class, business class, system class, and persistence class and

persistence store.

Interface classes: - These classes initiate access to the logic of our system and this interface class is the UI classes that provide people access to our system. An example of interface class is login interface class.

Business classes: - These classes implement the concepts and focusing on the data aspects of the business objects, plus behaviors specific to individual objects of the system. Examples:-Record new member, uploading file, delivering information and generate discussion forum.

Controller classes: - These classes implement business logic that involves collaborating with several domain classes or even other process classes.

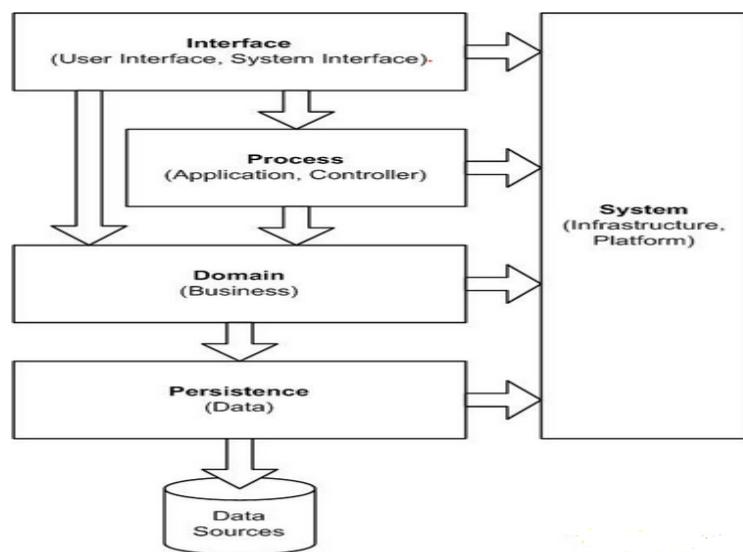
Examples of Controller classes are password, user name and account type.

Persistence classes: - These classes can be used to the capability of store, retrieve, and delete objects permanently without revealing details of the underlying storage technology.

Example of this class is database class.

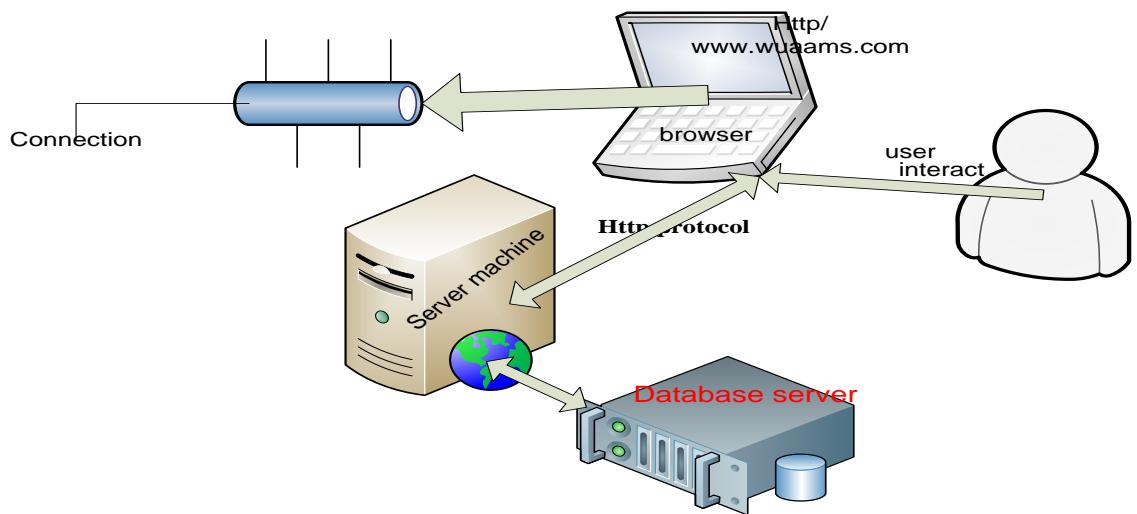
System classes: - These classes provide operating-system-specific functionality for your applications, isolating your software from the operating system (OS) by initiating OS-specific features, increasing the portability of your application.

Persistence store: -These classes can be used to store data permanently on the database that we can retrieve by other classes.



All types of classes interact with system classes. This is because new systems layer implements fundamental software features.

Architecture of the system



TESTING

- UNIT TESTING

Unit testing is a level of software testing where individual units/components of software are tested. The purpose is to validate that each unit of the software performs as designed. A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output. In procedural programming, a unit may be an individual program, function, procedure, etc. in object-oriented programming, the smallest unit is a method,

which may belong to a base/ super class, abstract class or derived/ child class. (Some treat a module of an application as a unit. It is concerned with functional correctness of the standalone modules. The main aim is to isolate each unit of the system to identify, analyze and fix the defects. A unit test is a way of testing a unit – the smallest piece of code that can be logically isolated in a system. In most programming languages, that is a function, a subroutine, a method or property. The isolated part of the definition is important.

Unit Testing Techniques:

- **Black Box Testing** - Using which the user interface, input and output are tested.
- **White Box Testing** - used to test each one of those functions behaviors is tested.

- **Gray Box Testing** - Used to execute tests, risks and assessment methods.
- **Integration Testing**

Integration Testing is a level of software testing where individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units. Test drivers and test stubs are used to assist in Integration Testing. It is defined as a type of testing where software modules are integrated logically and tested as a group. A typical software project consists of multiple software modules, coded by different programmers. The purpose of this level of testing is to expose defects in the interaction between these software modules when they are Integrated. Integration Testing focuses on checking data communication amongst these modules. Hence it is also termed as '**I & T**' (Integration and Testing), '**String Testing**' and sometimes '**Thread Testing**'.

Approaches, Strategies, Methodologies of Integration Testing

Software Engineering defines variety of strategies to execute Integration testing, viz.

- Big Bang Approach
- Incremental Approach: which is further divided into the

following

- Top-Down Approach
- Bottom-Up Approach
- Sandwich Approach - Combination of Top Down and Bottom Up

System Testing

System Testing is a level of testing that validates the complete and fully integrated software product. The purpose of a system test is to evaluate the end-to-end system specifications. Usually, the software is only one element of a larger computer-based system. Ultimately, the software is interfaced with other software/hardware systems. System Testing is actually a series of different tests whose sole purpose is to exercise the full computer-based system.

System Testing is carried out on the whole system in the context of either system requirement specifications or functional requirement specifications or in the context of both. System testing tests the design and behavior of the system and also the expectations of the customer. It is performed to test the system beyond the bounds mentioned in the software requirements specification (SRS).

In system testing, integration testing passed components are taken as input. The goal of integration testing is to detect any irregularity between the units that are integrated together. System testing detects defects within both the integrated units and the whole system. The result of system testing is the observed behavior of a component or a system when it is tested. System Testing is basically performed by a testing team that is independent of the development team that helps to test the quality of the system impartial. It has both functional and non-functional testing. System Testing is a black-box testing. It is performed after the integration testing and before the acceptance testing.

Types of System Testing

- Performance Testing:**

Performance Testing is a type of software testing that is carried out to test the speed, scalability, stability and reliability of the software product or application.

- Load Testing:**

Load Testing is a type of software Testing which is carried out to determine the behavior of a system or software product

under extreme load.

- **Stress Testing:**

Stress Testing is a type of software testing performed to check the robustness of the system under the varying loads.

- **Scalability Testing:**

Scalability Testing is a type of software testing which is carried out to check the performance of a software application or system in terms of its capability to scale up or scale down the number of user request load.

System testing is important since:

- a) In Software Development Life Cycle the System Testing is perform as the first level of **testing** where the System is tested as a whole.
- b) System Testing enables you to test, validate and verify both the Application Architecture and Business requirements.

In our project we are testing whether the student is authorized or not. When student want to register themselves, it will check whether the student id and name entered is the same as in the database. If authorized student has login, they can register themselves. If not authorized then, back to main page. We are also checking the admin login whether it is authorized or not. Only authorized admin can login. No one can register themselves as admin. Admin can change username and password in admin page only. Member login is also verified from the database values.

Input and Output

LOGIN PAGE



LOGIN ID

admin

ENTER PASSWORD

.....

Login

New user ? click here



Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

Your Login ID himanshi Created Sucessfully

Please Login using your Login ID to take Quiz

[Login](#)

Activate Windows
Go to Settings to activate Windows.



LOGIN ID himansi

Password

Confirm Password

Name himansi mourya

Address bhopal

City bhopal

Phone 1234567893

E-mail himashi@gmail.com

Signup

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

Welcome to Online Exam



Subject for Quiz



Result

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

[Home](#) | [Signout](#)

Select Subject to Give Quiz

VB

Oracle

Java

PHP

Computer Fundamental

Networking

mysql

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

[Home](#) | [Signout](#)

Que 1: Which of the following contexts are available in the add watch window?

- Project
- Module
- Procedure
- All

[Next Question](#)

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

[Home](#) | [Signout](#)

Result

Total Question 5

True Answer 1

Wrong Answer 4

Review Question

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Examination Portal

[Home](#) | [Signout](#)

Review Test Question

Que 1: Which of the following contexts are available in the add watch window?

Project

Module

Procedure

All

[Next Question](#)

Activate Windows
Go to Settings to activate Windows.



Online Examination Portal

Online Exmination Portal

[Home](#) | [Signout](#)

Result

Test Name	Total Question	Score
Essentials of VB	5	1

Activate Windows
Go to Settings to activate Windows.

Welcome to Online Exam localhost / 127.0.0.1 / quiz localhost / 127.0.0.1 | php New tab Welcome to Online Exam

Activate Windows
Go to Settings to activate Windows.

Welcome to Online Quiz



Welcome to Online exam. This Site will provide the quiz for various subject of interest. You need to login for the take the online exam.

LOGIN PAGE



Activate Windows
Go to Settings to activate Windows.

Type here to search O File Explorer Edge Chrome File History Firefox ENG 9:37 PM 3/31/2021

Online Examination Portal

Online Exmination Portal

Admin Home Signout

Adminstrative Login

Login ID
Password

Login

Online Examination Portal

Online Exmination Portal

view Subject view Test View Question view user Admin Home Signout

Add Subject

ID	name	Update	Delete
1	VB		
2	Oracle		
3	Java		
4	PHP		
5	Computer Fundamental		
6	Networking		
7	mysql		

Online Examination Portal				
Online Examination Portal				
view Subject view Test View Question view user				Admin Home Signout
Add Test				
ID	name	Total question	Update	Delete
8	VB Basic Test	3		
9	Essentials of VB	5		
10	Creating User Services	5		
11	function	5		

Online Examination Portal				
Online Examination Portal				
view Subject view Test View Question view user				Admin Home Signout
Add Question				
ID	Question		Update	Delete
16	What Default Data Type ?			
17	What is Default Form Border Style ?			
18	Which is not type of Control ?			
19	Which of the following contexts are available in the add watch window?			
20	Which window will allow you to halt the execution of your code when a variable changes?			
22	How can you print the object name associated with the last VB error to the Immediate window?			
23	How can you print the object name associated with the last VB error to the Immediate window?			
24	What function does the TabStop property on a command button perform?			
25	You application creates an instance of a form. What is the first event that will be triggered in the from?			
26	Which of the following is Hungarian notation for a menu?			
27	You are ready to run your program to see if it works. Which key on your keyboard will start the program?			
28	Which of the following snippets of code will unload a form named frmFO0m from memory?			
29	You want the text in text box named txtMyText to read My Text in which property will you place this string?			
30	how to use date() in mysql ?			
31	how to use date() in mysql ?			

Online Examination Portal				
Online Examination Portal				
view Subject view Test View Question view user				Admin Home Signout
Registered User Detail				
UserID	Name	Email	Delete User	
raj	Rajen	raj@yahoo.com		
ashish	ashish	ashish@yahoo.com		
Dhaval123	a	dhaval@yahoo.com		

Database

Server: 127.0.0.1 » Database: quiz_new » Table: mst_admin

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	loginid	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
3	pass	varchar(50)	latin1_swedish_ci		No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Server: 127.0.0.1 » Database: quiz_new » Table: mst_question

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	que_id	int(5)			No	None		AUTO_INCREMENT	Change Drop More
2	test_id	int(5)			Yes	NULL			Change Drop More
3	que_desc	varchar(150)	latin1_swedish_ci		Yes	NULL			Change Drop More
4	ans1	varchar(75)	latin1_swedish_ci		Yes	NULL			Change Drop More
5	ans2	varchar(75)	latin1_swedish_ci		Yes	NULL			Change Drop More
6	ans3	varchar(75)	latin1_swedish_ci		Yes	NULL			Change Drop More
7	ans4	varchar(75)	latin1_swedish_ci		Yes	NULL			Change Drop More
8	true_ans	int(1)			Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Server: 127.0.0.1 » Database: quiz_new » Table: mst_result

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	login	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More
2	test_id	int(5)			Yes	NULL			Change Drop More
3	test_date	date			Yes	NULL			Change Drop More
4	score	int(3)			Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Server: 127.0.0.1 » Database: quiz_new » Table: mst_subject

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 sub_id	int(5)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 sub_name	varchar(25)	latin1_swedish_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Server: 127.0.0.1 » Database: quiz_new » Table: mst_test

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 test_id	int(5)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 sub_id	int(5)			Yes	NULL			Change Drop More
<input type="checkbox"/>	3 test_name	varchar(30)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	4 total_que	varchar(15)	latin1_swedish_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

Server: 127.0.0.1 » Database: quiz_new » Table: mst_user

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 user_id	int(5)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 login	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	3 pass	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	4 username	varchar(30)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	5 address	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	6 city	varchar(15)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	7 phone	int(10)			Yes	NULL			Change Drop More
<input type="checkbox"/>	8 email	varchar(30)	latin1_swedish_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	sess_id	varchar(80)	latin1_swedish_ci		Yes	NULL		Change	Drop More
2	test_id	int(11)			Yes	NULL		Change	Drop More
3	que_des	varchar(200)	latin1_swedish_ci		Yes	NULL		Change	Drop More
4	ans1	varchar(50)	latin1_swedish_ci		Yes	NULL		Change	Drop More
5	ans2	varchar(50)	latin1_swedish_ci		Yes	NULL		Change	Drop More
6	ans3	varchar(50)	latin1_swedish_ci		Yes	NULL		Change	Drop More
7	ans4	varchar(50)	latin1_swedish_ci		Yes	NULL		Change	Drop More
8	true_ans	int(11)			Yes	NULL		Change	Drop More
9	your_ans	int(11)			Yes	NULL		Change	Drop More

With selected: Check all Change Drop Primary Unique Index Spatial Fulltext

Add to central columns Remove from central columns

ADVANTAGES OF ONLINE EXMINATION SYSTEM:

- Online Examination System is a computerized system which gives instant results and also saves time.
- It fully automates the previous manual process of taking written exams.
- It is implemented by web based online examination software or through Intranet variance. It decreases the need of supervision during the exam is being examine or taken using web based Online Examination System gives a high level of clarity as opposite of traditional method. Most of Online Examination System gives the result and instantly.
- In high school, Online Examination System is able to reduce the workload of teachers by using automated test paper exams and marking schemes.
- Students can study independently for example at home or any

place.

- The amount of time given at a particular question gives you the ability of “Quick Learning Quick Thinking.”
- The data in Online Examination System is regenerated repeatedly so that students have access to new data.
- In current scenario, because of COVID-19 we can use “online examination system”.

DISADVANTAGES OF ONLINE EXAMINATION SYSTEM:

- The question and answers may be tricky and confusing as there are multiple choices for answers.
- Lack of interaction between the teacher and student.
- Network problems may arise in Online Examination System, test may be postponed or cancel.
- As India is not a fully developed country problem may arise in rural areas where there is deficiency of computers or where computers are not yet discovered.
- Hackers can easily manage to achieve confidential data through fake online application or websites.
- While attempting online exams we can easily manage to open another window on existing computer.
- Teaching techniques of an instructor or teacher may vary from online exam questions.

FUTURE SCOPE OF ONLINE EXAMINATION SYSTEM:

- Online Examination System is widely used as compared to other exams. Online examination system can be used in private institutes as well as educational institution.
- It is user friendly web base application it can be used anywhere and anytime.
- The main purpose of the system is to efficiently evaluate the candidate thoroughly through a fully automated system that not only saves a lot of time but also gives fast result and saves paper.
- The faculty prepares the tests and question for each exam.
- The question are shuffled in a random order so that possibility for getting questions in the same order for the student how are beside, it is very less.

Feasibility Study

- **Technical Feasibility**

Building this system is technically feasible. The hardware and software needed are all available, it not difficult to get them. Brief I can say the necessary resources needed for the development and maintenance of the system are available. I am going to use “PHP

and MySQL".

- **Operationally Feasibility**

The project I am developing is operationally feasible as there is no need for users to have good knowledge in computer before using it. The user can learn and use the system with easiness; he just needs to read the manual or tutorial from the developers.

- **Economic Feasibility**

Besides being technically feasible, developing this system is economically feasible as well. The development of the system does not require the developers to spend a lot of money. The tools I will be using to develop the system are not expensive and the software's are open source. All I need is time. Even the maintenance of the system will not be expensive. The system is indeed economically feasible.

Security

Online examination system as an important part of the assessment of student's learning outcomes, which needs to be confidential to the examinee and the related questions. The related data and operation must ensure the safety of the whole system. For system operators, admin need to assigns different operating authority. Before operating, the system needs to authenticate the user's access. Only an operator with corresponding rights is allowed to related operations, otherwise, his operations are refused. In addition, the system interfaces of the user are not allowed to access or operate are hidden. In order to ensure the data security of the system, it is necessary to strengthen the security of database management system, preventing illegal data destruction and loss of important data. In database security, mandatory access control and custom access

control need to be implemented. The system assigns different user roles for different database users, and grants the permissions for user. In addition, the system needs to strengthen the management of user access permissions. Only a specific permission operator can do the corresponding operation. The system needs to adopt two methods of access control and network control, ensuring no unauthorized access to the whole system and no illegal use to each function.

Limitation of project

- In case of any type of problem in student verification no functionality is define in a system to correct it or intercommunication among user are also not available.
- Online examination system is restricted to multiple choice question which can be inefficient in assessing a student's topic Mastery. Exams in the form of debates, essays, case-based questions and oral exams are difficult to conduct online.
- Online examination system does not support for adding images with question so questions containing diagram can not be saved in the system.
- It has no real existence in internet just tested on localhost.
- Skip of questions is not possible and the question is not displayed randomly.
- There is no negative marking and there is no fixed time and

date for online exam, It can lead to excessive cheating.

- Not suitable for collaborative evaluations or group project.
- There are subject like mathematics, economic, science, that are difficult to attempt online as include formulae

Conclusion

Online Examination System is significantly superior among the other exams. We have come to result that the problems can be solved by introducing new security systems using biometrics, we can identify the student's true identity by analyzing digital signature or by finger print mechanism and also by providing web cameras in the examination hall. Although web cameras sometimes gets failed, if supposed a candidate is giving exam and facing downwards in such case Iris recognition and face recognition must be used. We conclude that no mechanism is ideal. Each mechanism has some restriction on its own. Key concepts are to develop paperless environment and to convert all the documentation in digital form. With the completion of this project, we conclude that it has achieved its purpose. The whole project provides a base for students to take their exam using software and allow teacher to add questions and answers into the system. The system is developed using PHP and MySQL are saved in the database. Online examination system for introduction to management course is the best compared to paper-based exam. The automated system helps students and lecturers to save time and makes the process faster. It saves space since answers papers will not be used. With a user-friendly system that has security, integrity and the database is neither inconsistent nor redundant.

Reference

- ☞ [Software Testing Tutorial - Tutorials point](#)
- ☞ <https://www.geeksforgeeks.org/>
- ☞ <https://www.w3schools.com/>
- ☞ <https://programmer2programmer.net>
- ☞ <https://projectworld.in>
- ☞ <https://1000projects.org>
- ☞ <https://www.academia.edu>
- ☞ Search papers:
www.irjet.net
www.ijariie.com

THE BHOPAL SCHOOL OF SOCIAL SCIENCES



ROLL NO. = 18031021

CLASS = BCA 3rd YEAR

SUBJECT = PHP PROJECT REPORT

Submitted by: Jyoti pal Submitted to: Zeeshan sir

Title of the proposed project
(online flight booking services)

5 .Introduction to the proposed title -

First of all i would like to let you all know that There is a very important reason behind choosing this topic.

As we all know, that we are living in the Internet's generations & everything has became very easy now, The use of internet and online websites is increasing day by day , Specially in the field of online booking services . There are so many benefits/advantages that internet & technology gives us, such as:

Connectivity , communication, and sharing .we can do anything with just one click by just sitting at our homes .

The **airline reservation system** is a web-based booking solution that helps in consolidating data from all **airlines** through the use of global distribution systems. The **system** provides inventory and rates in real time to customers as well as travel agents.

So, now lets move on to the introduction part :

Basically, it is going to be an online flight booking system. At its most

basic, an **online booking** system is software which allows a potential customer to **book** and pay for an activity or service directly through the website.

A. **Online booking** is a convenient way of **booking** the travel over the **internet**. Customers can **Book** a **flight** and pay **online** for their travel. And also they can Request for a particular seat, special meal or service according to their comfort .

6. Objectives of our proposed project title - As we all know an online flight booking services websites are becoming increasingly popular in. The **online** travel portal integrates with GDS/CRS (Global Distribution System) and Non GDS suppliers like direct integration with **Airline** companies and other travel **service** suppliers. The Travel Portal provides **online booking** facilities to customers or end users visiting their website.

In our website, we will regularly add new information to improve interaction with existing and potential customers or viewers.

- To improve efficiency and effectiveness towards the online services .
- To improve user accessibility & time flexibility
- To save the time & money of our customers.
- To engage our costumers in the online booking services & facilities.

We are going to provide an online booking facility to be used by the client of the company as a method of delivering services to the airlines company's clients . we will also try to provide a secured online booking facility to be used by the airline authorized employee to manage the reservation and ticketing system that will be able to give the best service regarding to : Accuracy , usability, speed and user friendly by implementing the newest techniques and technology in the website.

7. Tools / environment used

- **Atom.** Atom is relatively a new kid on the block of **code editors** . . .
- **Sublime Text.** The Sublime is among the most popular text **code editors** out there. . .
- **Notepad++** Notepad++ is a powerful open source text editor, which only works on Windows. . .

- **Visual Code Studio.**
- **Ftp (file transfer protocol)**

Software requirements:

- Operating System: Windows 7 or 10.
- Web Technologies: Html, JavaScript, CSS, PHP, MYSQL
- Web Server: Tomcat 7.0, web browser (internet explorers)
- Database: Oracle 10g Express Edition
- Software 's: JDK 7
- XAMPP
- BOOTSTAP

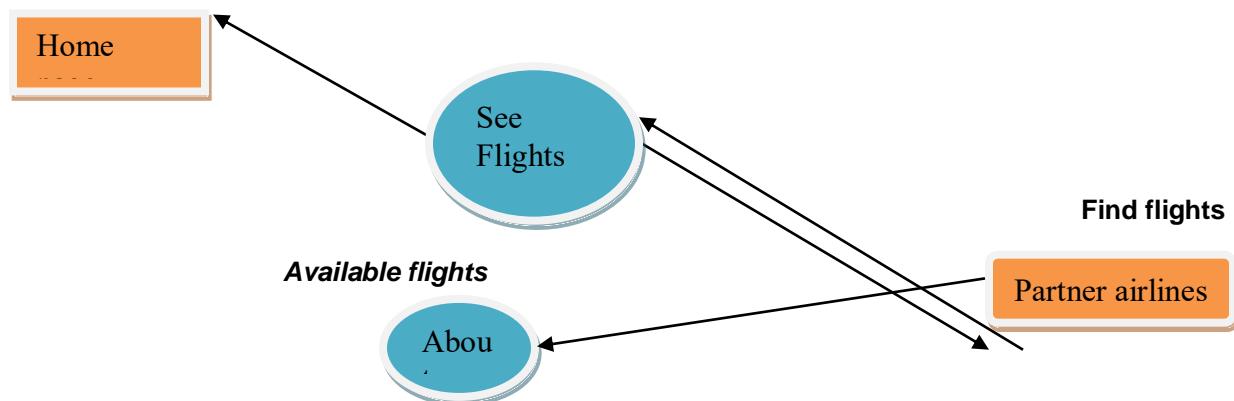
Hardware requirements:

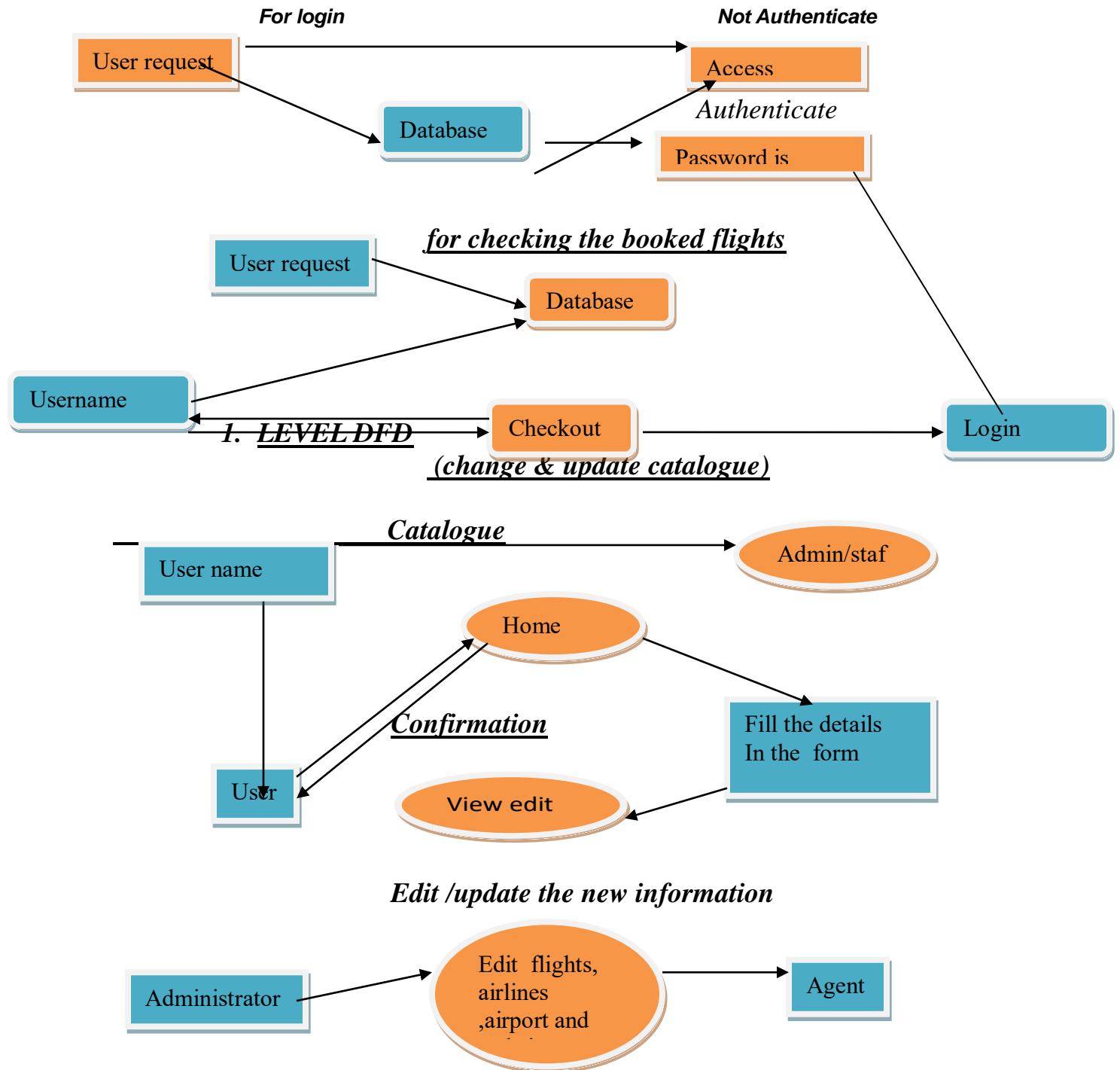
- Hardware: Pentium based systems with a minimum of P4
- RAM: 1 GB (minimum)
- Display device
- Standard keyboard
- Modem/ LAN card for internet connection
- Mouse or pointing device

8.ANALYSIS Document : (Data flow diagram, ER diagram,)As per the software requirements.

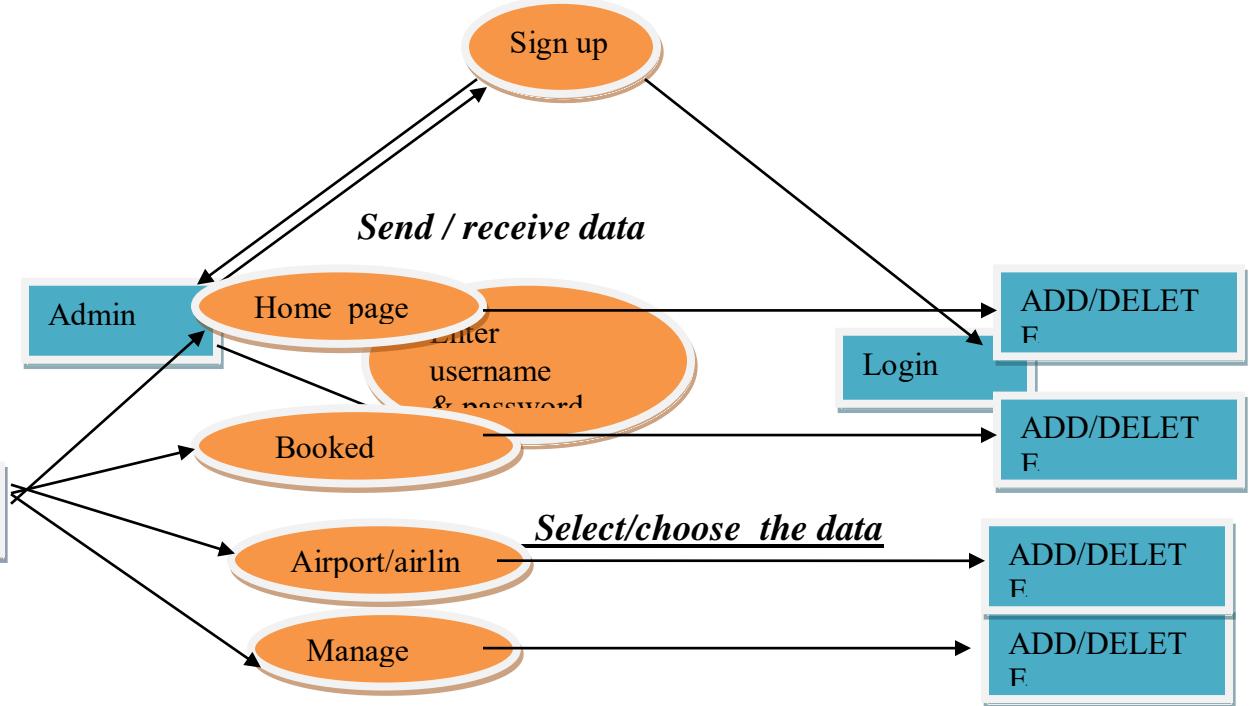
**0 level DFD
For registration**

Select / choose the flights as per your comfort

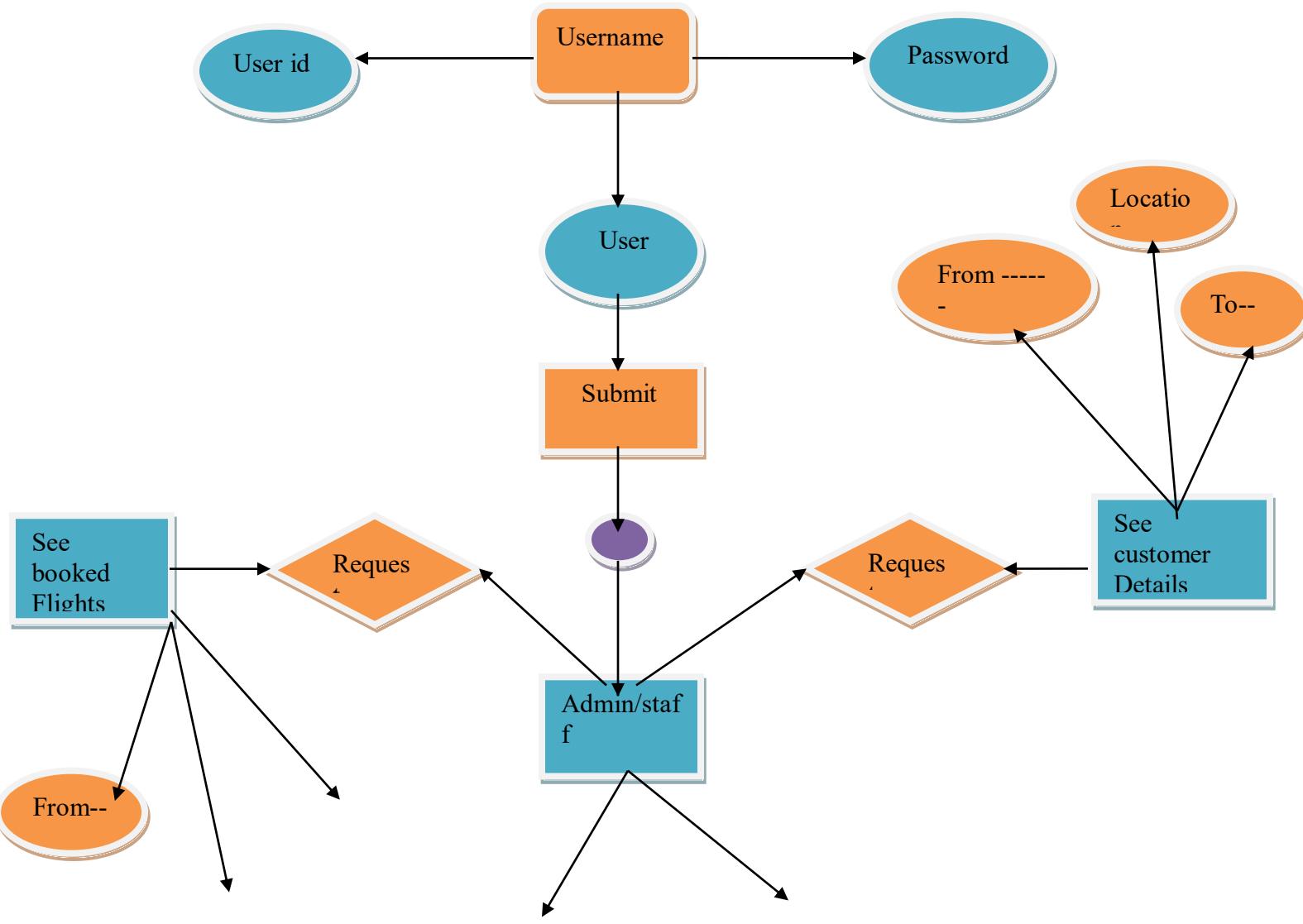


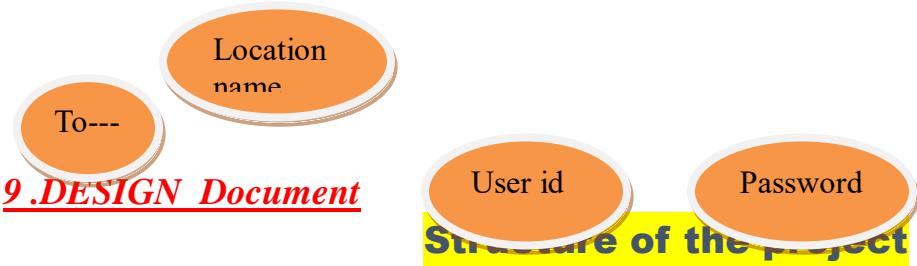


1. level DFD



ER DIAGRAM





9 .DESIGN Document

- **Before login**
 - Home
 - > login
 - > Register
 - > Forgot password
 - Flight lists
 - > Administrator login
 - > About us
 - > Contact us

- **After Administrator login**
 - *Home
 - *Add/remove Flights
 - *Add Airports
 - *Add Airlines
 - *Manage users
 - *Site Setting

- See reserved customers
- Total booked flights
- See passenger details
- Remove users
- logout

- **After user login (Welcome to online Flight booking service)**
 - *fill the details and find the flights
 - *Available Flights lists
 - *Partner airlines
 - *About
 - Checkout
 - Logout

11. TESTING :-

Our testing process will involve these step by step processes, It includes:

- #Test strategy
- #test plan
- #test design
- #test execution
- #test closure

The following testing methodologies are to be used in chronological order:

- 1 functionality testing for: cookie testing, validation html, CSS, GUI testing
- 2 usability testing for : validation, content, easy to use, look and feel.
- 3 interface testing for: web server, application server & database server interface
- 4 capability testing for : operating system, mobile browsing, printing option
- 5 performance testing for : mainly consists of web load testing
- 6 Acceptance testing for: beta testing

Our testing process will be done with the help of these following key points

Basic functionality testing :-we will Begin by making sure that every button on every screen works. We will also need to ensure that we can enter simple text into each field without crashing the software. We don't have to try out all the different combinations of clicks and characters, or edge conditions.

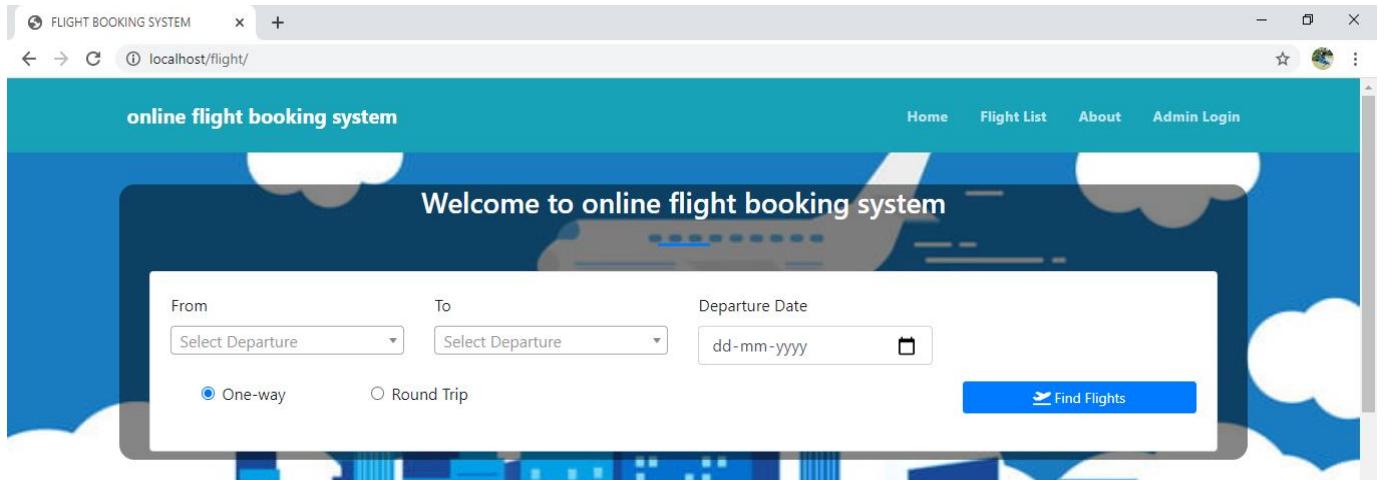
Code review :- Another pair of our eyes looking at the source code can uncover a lot of problems .If our coding methodology requires peer review. We will perform this step before our hand the code over for testing

Static coding analysis :- There are tools that can perform analysis on source code or byte code without executing it .These static code analysis tools can look for many weaknesses in the source code and Security vulnerabilities.

Unit testing :- Basically developers will write unit tests to make sure that the unit (be it a method, class, or component) is working as expected and test across a range of valid and invalid inputs

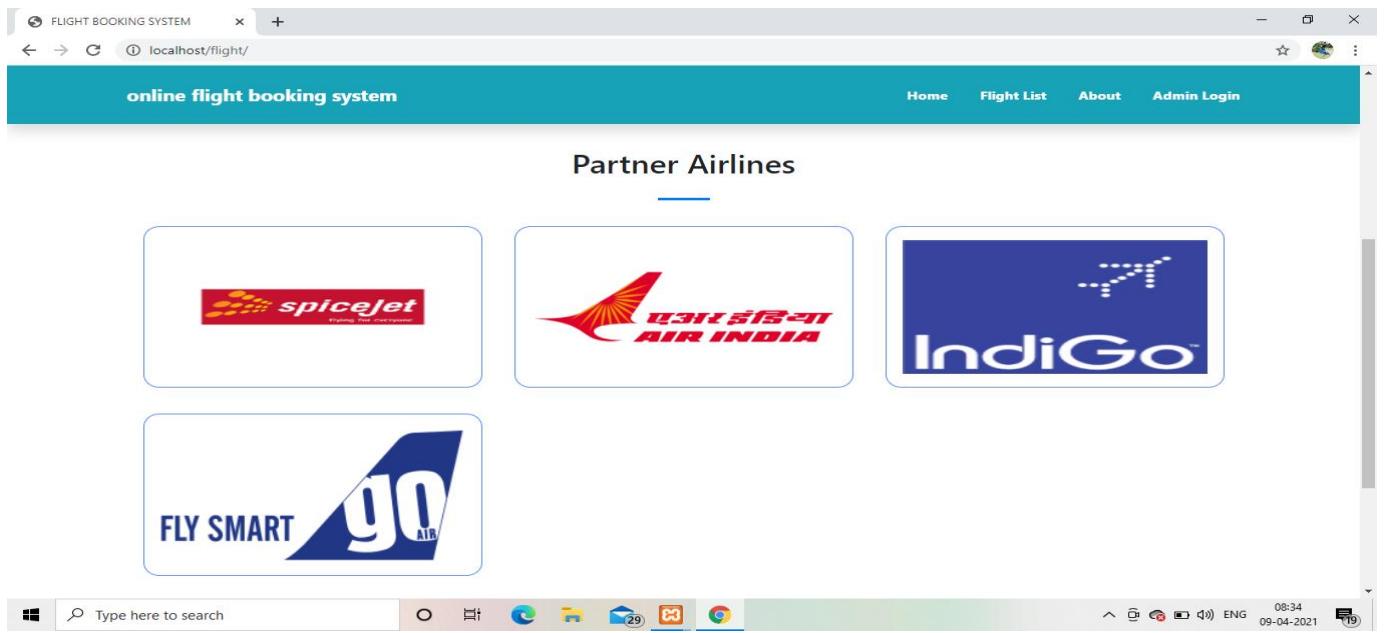
12. INPUT AND OUTPUT SCREENS

HOME PAGE :

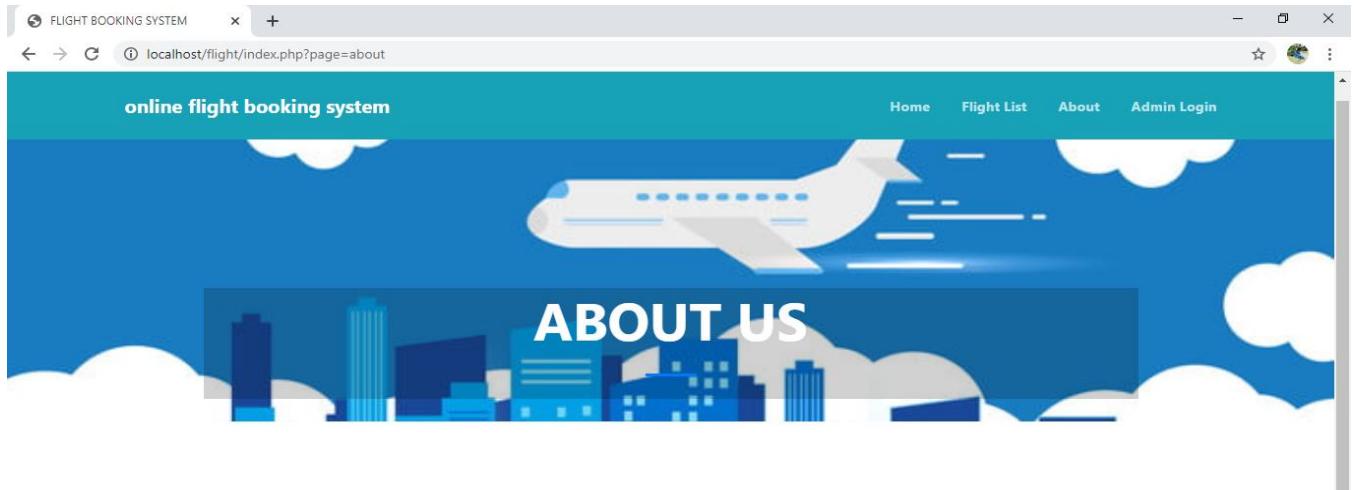


Partner Airlines

PARTNER AIRLINES :



About us :

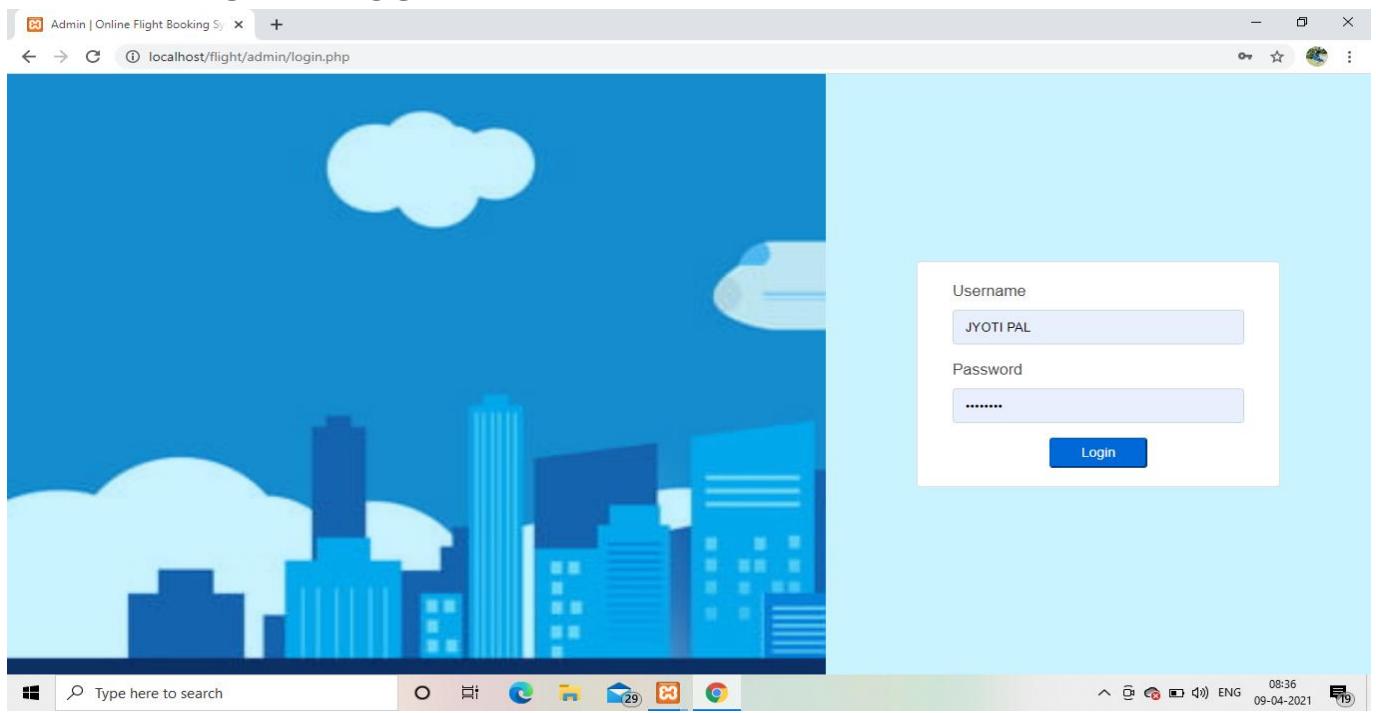


This is the online flight booking service .At its most basic, an **online booking system** is software which allows a potential customer to **book** and pay for an activity or service directly through the website.

A. **Online booking** is a convenient way of **booking** the travel over the **internet**. Customers can **Book a flight** and pay **online** for their travel. And also they can Request for a particular seat, special meal or service according to their comfort .



ADMIN AND STAFF LOGIN :



Welcome back admin :

Admin | Online Flight Booking S x +

localhost/flight/admin/index.php?page=home

Online Flight Booking System

Welcome back Administrator!

Administrator

- Home
- Booked
- Flights
- Airport
- Airlines
- Users
- Site Settings

Type here to search

08:36 09-04-2021

This screenshot shows the Admin Home page of the Online Flight Booking System. The title bar indicates the user is an administrator. A welcome message 'Welcome back Administrator!' is displayed. The left sidebar contains links for Home, Booked, Flights, Airport, Airlines, Users, and Site Settings. The main content area is currently empty.

See booked flights :

Admin | Online Flight Booking S x +

localhost/flight/admin/index.php?page=booked

Online Flight Booking System

Administrator

Booked Flights List

Show 10 entries Search:

#	Information	Flight Info	Action
1	Name :yug Contact # :6264788449 Address :vindhya valley	Airline :AIR INDIA Plane :543 Airline :AIR INDIA Location :GWALIOR AIRPORT, GWALIOR - RAJA BHOJ AIRPORT, BHOPAL, M.P. Departure :Mar 26,2021 05:12 AM Arrival :Mar 25,2021 06:00 AM	
2	Name :jyoti pal Contact # :9039815700 Address :house no. 16 new karariya farm ,nishatpura,bhopal	Airline :AIR INDIA Plane :543 Airline :AIR INDIA Location :GWALIOR AIRPORT, GWALIOR - RAJA BHOJ AIRPORT, BHOPAL, M.P. Departure :Mar 26,2021 05:12 AM Arrival :Mar 25,2021 06:00 AM	
		Airline :SPICEJET	

Type here to search

08:37 09-04-2021

This screenshot shows the Booked Flights List page. It displays two flight records. Each record includes the passenger's name, contact number, address, and flight details such as airline, plane number, location, and departure/arrival times. There are edit and delete buttons for each record.

Edit , add or delete new or exist flights

Online Flight Booking System		Administrator						
Home Booked Flights Airport Airlines Users Site Settings		Flight List + New Flight						
		Show 10 entries Search: <input type="text"/>						
Date	Information	Seats	Booked	Available	Price	Action		
Mar 24,2021	 Airline : AIR INDIA Airline : AIR INDIA Location : RAJA BHOJ AIRPORT, BHOPAL, M.P. - JAIPUR INTERNATIONAL AIRPORT, JAIPUR , RAJESTHAN Departure Mar 24,2021 05:00 AM Arrival :Mar 24,2021 07:00 AM	6	0	6	2,100.00	 		
	 Airline : SPICEJET Airline : SPICEJET Location : JAIPUR INTERNATIONAL AIRPORT, JAIPUR							

Fill Data Form to add New flights

Online Flight Booking System		Administrator						
Home Booked Flights Airport Airlines Users Site Settings		New Flight + New Flight						
		Show 10 entries Search: <input type="text"/>						
Date	Information	Seats	Booked	Available	Price	Action		
Apr 09,2021	Airline : Please select here Plane No : <input type="text"/> Departure Location : Please select here Arrival Location : Please select here Departure Data/Time : <input type="text"/> Arrival Data/Time : <input type="text"/> Seats : <input type="text"/> Price : <input type="text"/>	3	0	3	2,300.00	 		

Airport (edit or delete)

Admin | Online Flight Booking System

localhost/flight/admin/index.php?page=airport

Online Flight Booking System

Administrator

- [Home](#)
- [Booked](#)
- [Flights](#)
- [Airport](#)
- [Airlines](#)
- [Users](#)
- [Site Settings](#)

Airport's Form

Airport

Location

[Save](#) [Cancel](#)

#	Airport	Locoation	Action
1	RAJA BHOJ AIRPORT	BHOPAL, M.P.	Edit Delete
2	GWALIOR AIRPORT	GWALIOR	Edit Delete
3	INDIRA GANDHI INTERNATIONAL AIRPORT	NEW DELHI , INDIA	Edit Delete
4	JAIPUR INTERNATIONAL AIRPORT	JAIPUR , RAJESTHAN	Edit Delete
5	Mumbai international airport	Mumbai, Maharashtra	Edit Delete

Type here to search

08:37 09-04-2021

Airlines (edit or delete)

Admin | Online Flight Booking System

localhost/flight/admin/index.php?page=airlines

Online Flight Booking System

Administrator

- [Home](#)
- [Booked](#)
- [Flights](#)
- [Airport](#)
- [Airlines](#)
- [Users](#)
- [Site Settings](#)

Airlines Form

Airlines

Logo

[Save](#) [Cancel](#)

#	Image	Name	Action
1		AIR INDIA	Edit Delete
2		INDIGO	Edit Delete
3		SPICEJET	Edit Delete
4		GoAir	Edit Delete

Type here to search

08:37 09-04-2021

Manage users :

#	Name	Username	Action
1	Administrator	JYOTI PAL	Action
2	damini	Damini	Action
3	nitu	Nitu	Action
4	sanskar	Sanskar	Action
5	Shalini Singh	shalu	Action
6	tanu	Tanu	Action
7	YUG	yug	Action

Site setting :

System Name
online flight booking system

Email
jyotipal4050@gmail.com

Contact
6264788449

About Content

This is the online flight booking service website .At its most basic, an **online booking system** is software which allows a potential customer to book and pay for an activity or service directly through the website.
A. **Online booking** is a convenient way of booking the travel over the internet. Customers can **book a flight** and **pay online** for their travel. And also they can Request for a particular seat, special meal or service according to their comfort .

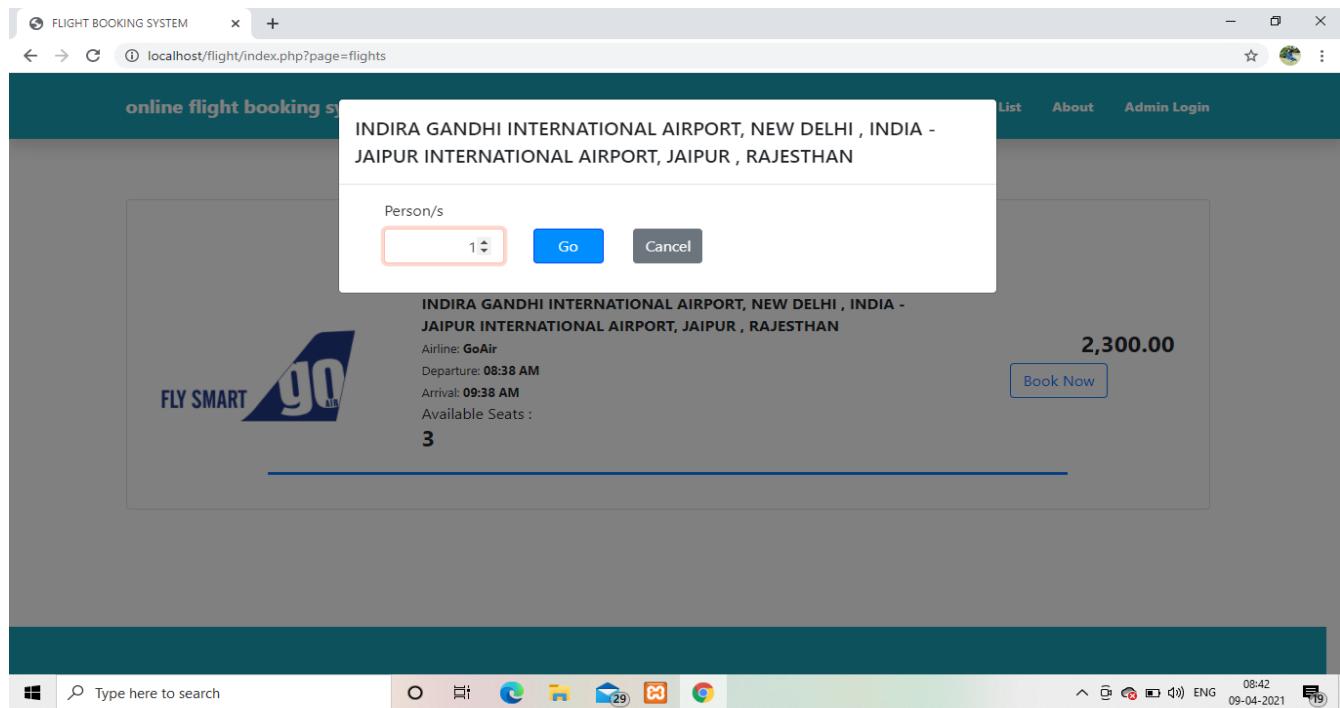
For customers or visitors : [see available flight list]

The screenshot shows a web browser window titled "FLIGHT BOOKING SYSTEM" with the URL "localhost/flight/index.php?page=flights". The page header includes "online flight booking system" and navigation links for "Home", "Flight List", "About", and "Admin Login". The main content area displays a flight search result for a flight from "INDIRA GANDHI INTERNATIONAL AIRPORT, NEW DELHI, INDIA - JAIPUR INTERNATIONAL AIRPORT, JAIPUR, RAJESTHAN" operated by "GoAir". The flight details are: Departure: 08:38 AM, Arrival: 09:38 AM, Available Seats: 3. The price is listed as "2,300.00" with a "Book Now" button. The GoAir logo is visible on the left.

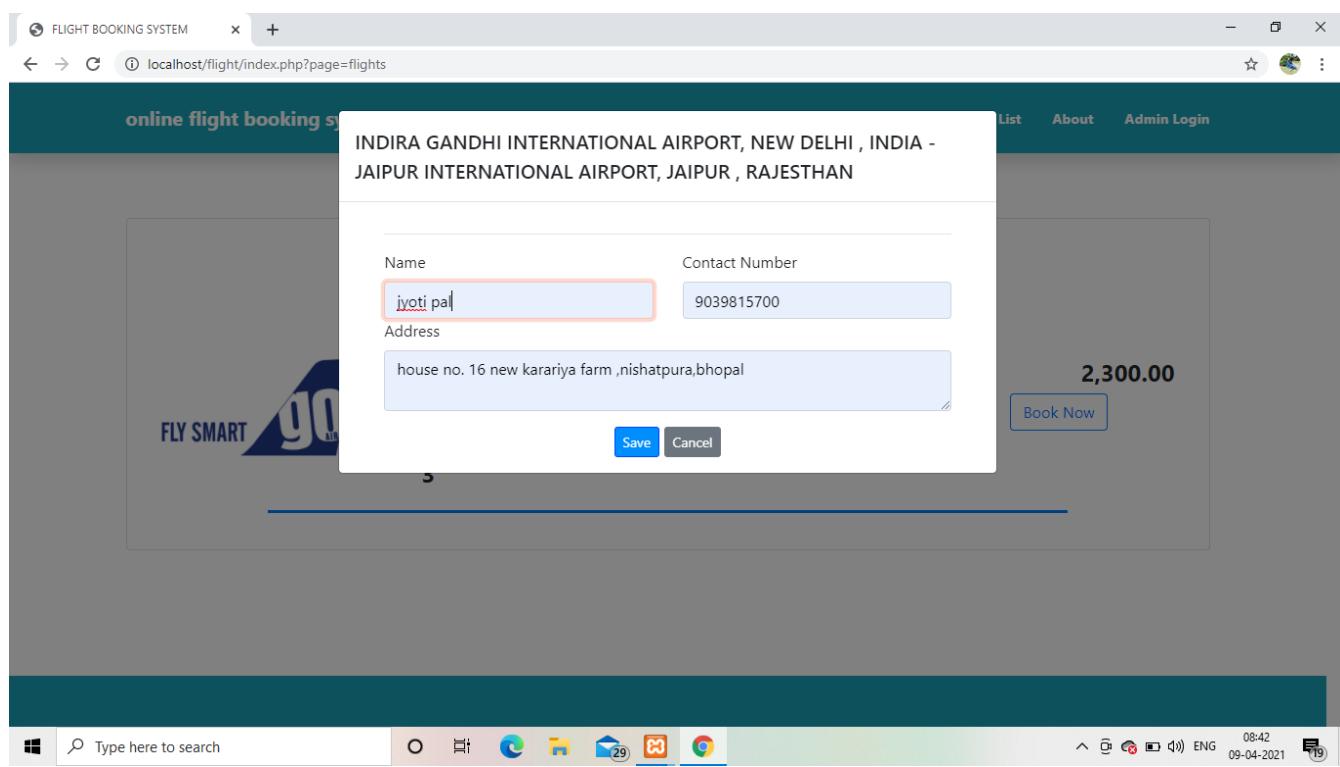
Search and Book flight as per your comfort :

The screenshot shows a web browser window titled "FLIGHT BOOKING SYSTEM" with the URL "localhost/flight/index.php?page=flights". The page header includes "online flight booking system" and navigation links for "Home", "Flight List", "About", and "Admin Login". A search modal is open, showing fields for "From" (NEW DELHI, INDIA, IN), "To" (JAIPUR, RAJESTHAN, IN), "Departure Date" (10-04-2021), and "One-way" selected. A "Find Flights" button is visible. Below the modal, the search results are displayed under the heading "Searched Flight results...". The results show the same flight information as the previous screenshot: INDIRA GANDHI INTERNATIONAL AIRPORT, NEW DELHI, INDIA - JAIPUR INTERNATIONAL AIRPORT, JAIPUR, RAJESTHAN, GoAir, 08:38 AM departure, 09:38 AM arrival, 3 available seats, and a price of 2,300.00 with a "Book Now" button. The GoAir logo is visible on the left. The taskbar at the bottom shows various application icons and the date/time as 09-04-2021 08:41.

Fill the details to book the flight



Conform your reservation



14. Future scope & further enhancement :-

Those days are gone , when one used to call multiple travel agents to know about the holiday packages and plan a tour

With the advent of worlds wide web, air ticketing industry has seen much developed in recent times. Also , online airline flight booking plays a major role in travel and tourism .there has been a significant good future scope of air reservation business .

- Air ticketing is very dynamic & booming work sphere with great future scope on global level. This is one of the largest and most profitable industries in the world and contribute substantially to the foreign exchange earned .
- A report published by travel and tourism council could add another RS 8,50,000 CR to GDP .it can provide and create millions of new job for unemployed people .

So , Definitely , having no doubts , to say that online services has made everybody's life easier now, so that everyone can easily work from home . and it has so much scope in future

THE BHOPAL SCHOOL OF SOCIAL SCIENCES



PROJECT REPORT ON

<LIBRARY MANAGEMENT SYSTEM>

By:

Muniba Zarrin

RollNo:18031025

Enrollment No:R190190270054

Under the guidance of:

Mr.Zeeshan Ahmed Siddiqui Sir

ACKNOWLEDGEM

ENT

I convey my sincere gratitude to MR.Zeeshan Sir for Giving me the opportunity to prepare my project work in PHP.

I express my sincere obligation and thanks to the principal and all the faculties of the Department of Computer Applications,THE BHOPAL SCHOOL OF SOCIAL SCIENCES,for providing me with the guidance,help,motivation and valuable advice at every stage for completing the project work successfully.

Name:Muniba Zarrin

Roll No:18031025

DECLARATION

I do hereby that the project work entitled “Library Management System” submitted by me for the partial fulfilment of the requirement for the award of Bachelor in Computer Applications(BCA),is an authentic work completed by me. The report being submitted has not been submitted earlier for the award of any degree or diploma to any institute or university.

CERTIFICATE OF ORIGINALITY

This is to certify that the project report entitled “Library Management System” submitted to the Bhopal School Of Social Sciences, in partial fulfillment of the requirement for the award of the degree of Bachelor in computer applications (BCA),is an original work carried out by Ms.Muniba Zarrin.

Enrollment No.:R190190270054

Roll No.:18031025

The matter embodied in this project is a genuine work done by the student and has not been submitted whether to this University or to any other University/Institute for the fulfilment of the requirement of any course of study.

**LIBRARY MANAGEMENT
SYSTEM** Project by:-Muniba Zarrin

Nowadays the library has become an indispensable part of daily life. But the library storage and the business volume are huge, the traditional accounts management is merely not feasible. Library management system comes into being and becomes an important part of information construction gradually. The implementation of electronic book management can help human resource officials free themselves from the heavy deskwork to complete some more important work.

The history of the library management system could date back to the late 1960s. At that time, computer technology had entered the practical stage. Meanwhile in most large scale libraries, it's very time-consuming and easy to make mistakes to find books or statistical information manually.

The revolutionary change in the library management system occurred in the late 1990s. With the information explosion and the era of knowledge-driven economy, individuals, units and social had a higher demand on library management system. In the meantime, due to proliferation of database technology, customer or server technology, specially internet or intranet technology, the third generation of books borrowing management system had become inevitable.

Objectives

1. The objectives and scope of library management system is to record the details various activities of user.

2. It will simplifies the task and reduce the paper work.
3. During implementation every user will be given appropriate training to suit their specific needs.
4. Specific support will also be provided at key points within the academic calender.
5. Training will be provided on a timely basis, and you will be trained as the new library management system rolled out to your area of responsibility.
6. This system for the college has been designed to remove all the deficiency from which the present system is suffering and to ensure.

Benefits

1. Simple and easy to use:-The Library Management System is simple, user-friendly and can be easily integrated with your existing system.
2. Increased library engagement:-Avoid frustration and tediousness by providing students with anytime access to library resources.
3. Efficient cloud data management:-Automate, simplify and deploy library database seamlessly to make it easy.
4. Highly secure, scalable and reliable:-College libraries benefit from scalable infrastructure, role based secure access, high performance and reliable to ensure seamless access to library database.
5. Mobile access:-The library management system provides mobile access to search the library catalog, schedules, books and resources from anywhere, at any given time via smartphones and tablets.
6. Dynamic reports:-Maximize the performance of

libraries with dynamic reports,charts and graphs to review and track the progress for better decision-making.

7.Error-free:-The automated library software is user friendly,powerful and developed for easy entry of data,makes library operations free from errors.

8.Innovation:-Students can search,write articles,upload photos and videos,manage email,send messages,chat,social media,etc.

9.Fully customizable:-The library automation system is fully customizable and adaptable to the needs of educational institutions to provide fast,reliable data.

10.Cost-effective:-Embracing sophisticated technologies is cost-effective and a viable choice for education.

SOFTWARE REQUIREMENT SPECIFICATION

GENERAL DESCRIPTION

PRODUCT DESCRIPTION:

Library Management System is a computerized system which helps

user(librarian) to manage the library daily activity in electronic format. It reduces the risk of paper work such as file lost, file damaged and time consuming.

It can help user to manage the transaction or record

more effectively and timesaving.

PROBLEM STATEMENT:

The problem occurred before having computerized system includes:

- File lost

When computerized system is not implemented file is always lost because of human environment. Some times due to some human error there may be a loss of records.

- File damaged When a computerized system is not there file is always lost due to some accident like spilling of water by some member on file accidentally.

Besides some natural disaster like floods or fires may also damage the files.

- Difficult to search record

When there is no computerized system there is always a difficulty in searching of records if the records are large in number .

- Space consuming

After the number of records become large the space for physical storage of file and records also increases if no computerized system is implemented.

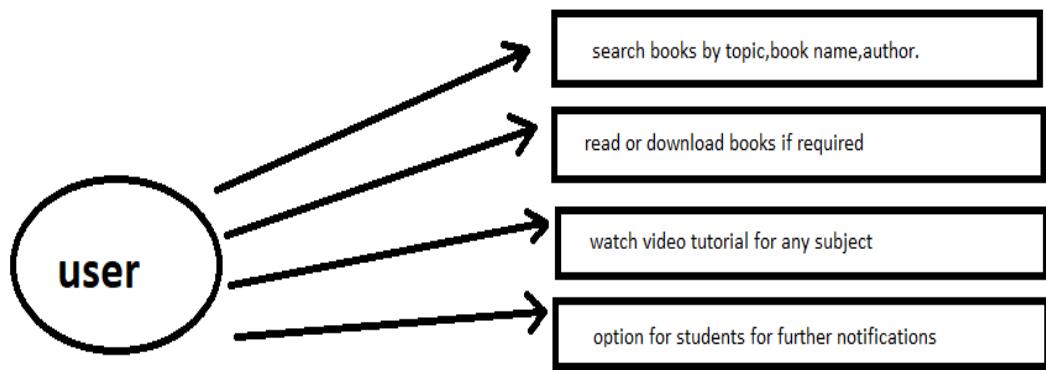
- Cost consuming

As there is no computerized system the to add each record paper will be needed which will increase the cost for the management of library.

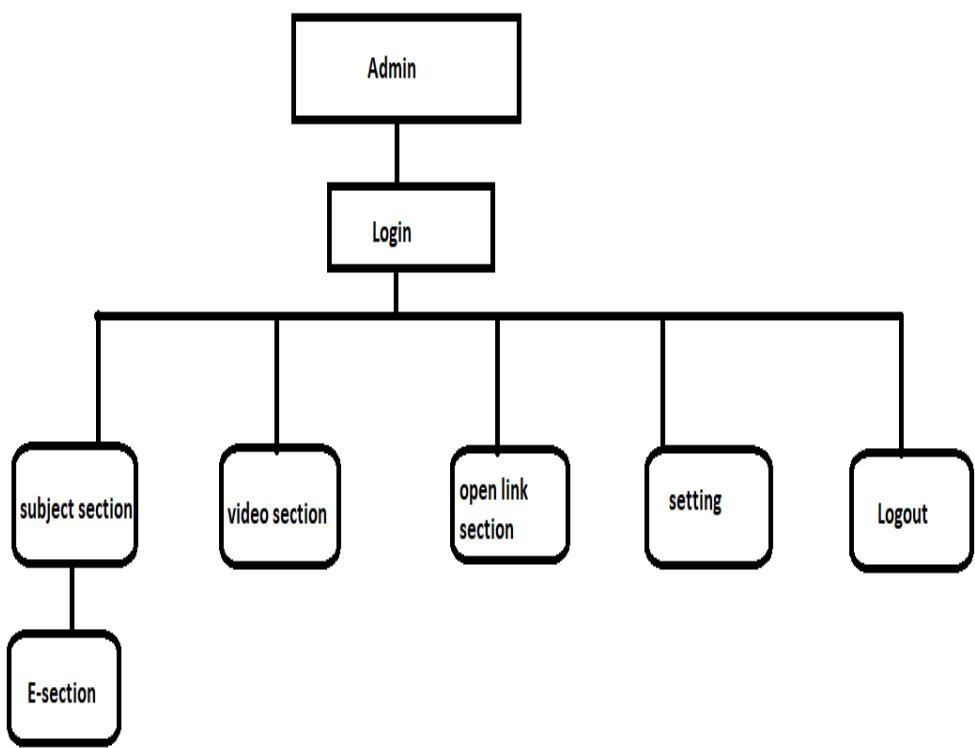
System Design

Library management system includes software requirement specification(SRS).The functional and non-functional are included in SRS part to provide complete description and overview of system requirement before the developing process is carried out.

Case Diagram For User

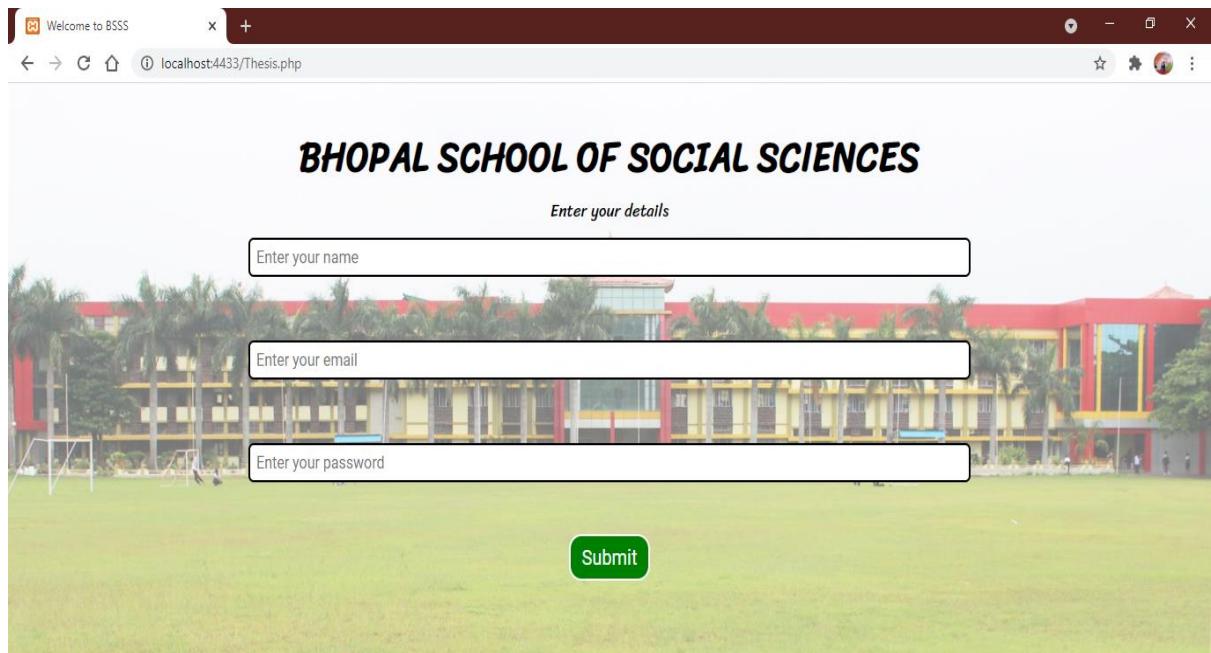


Case Diagram For Admin

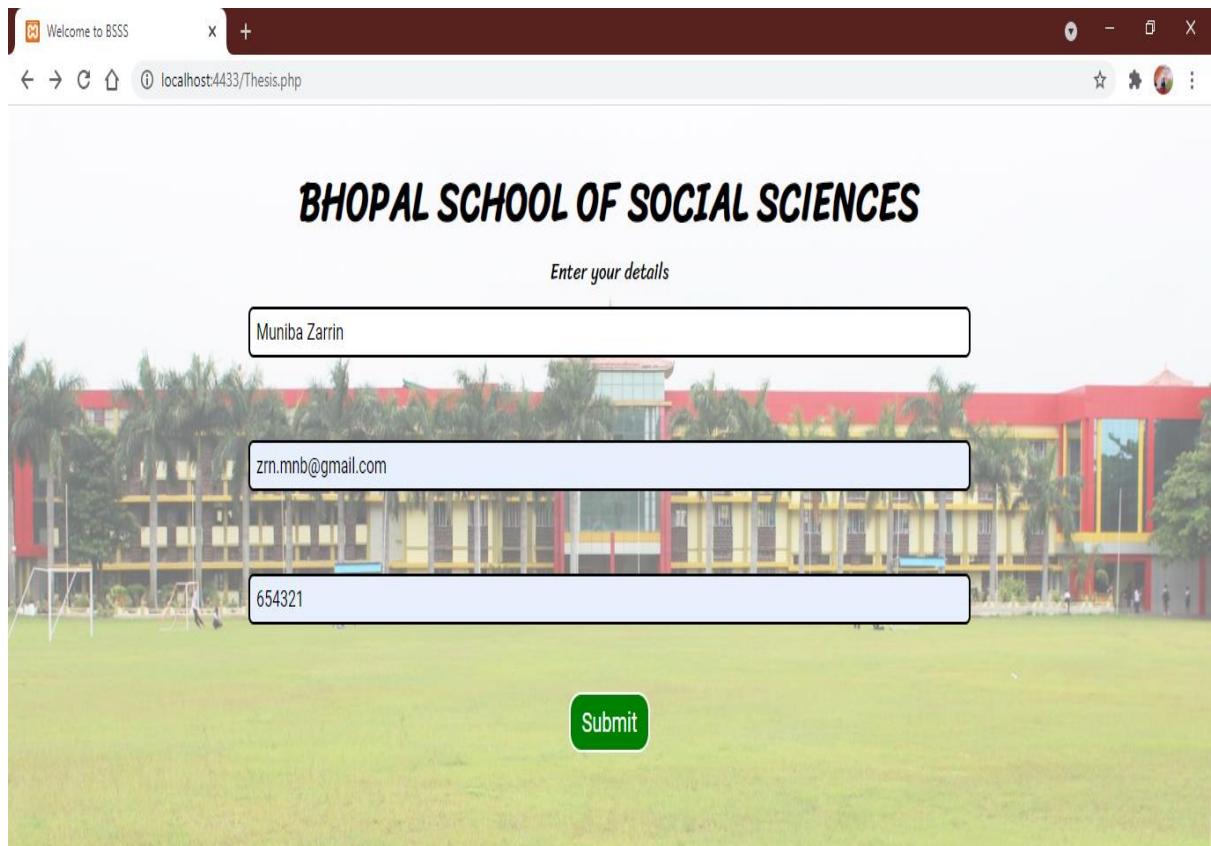


System Implementation for Users

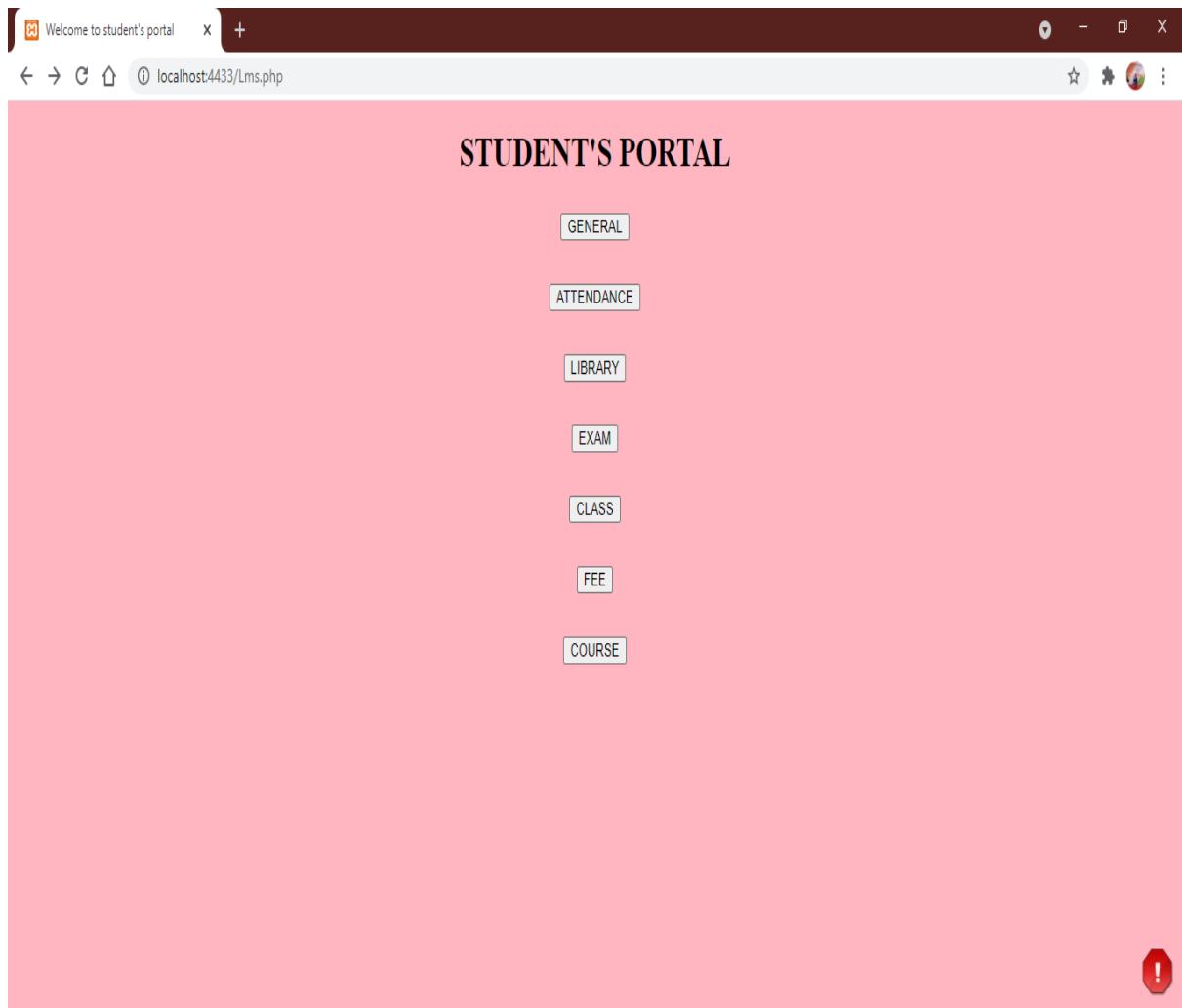
Screenshot of home page:



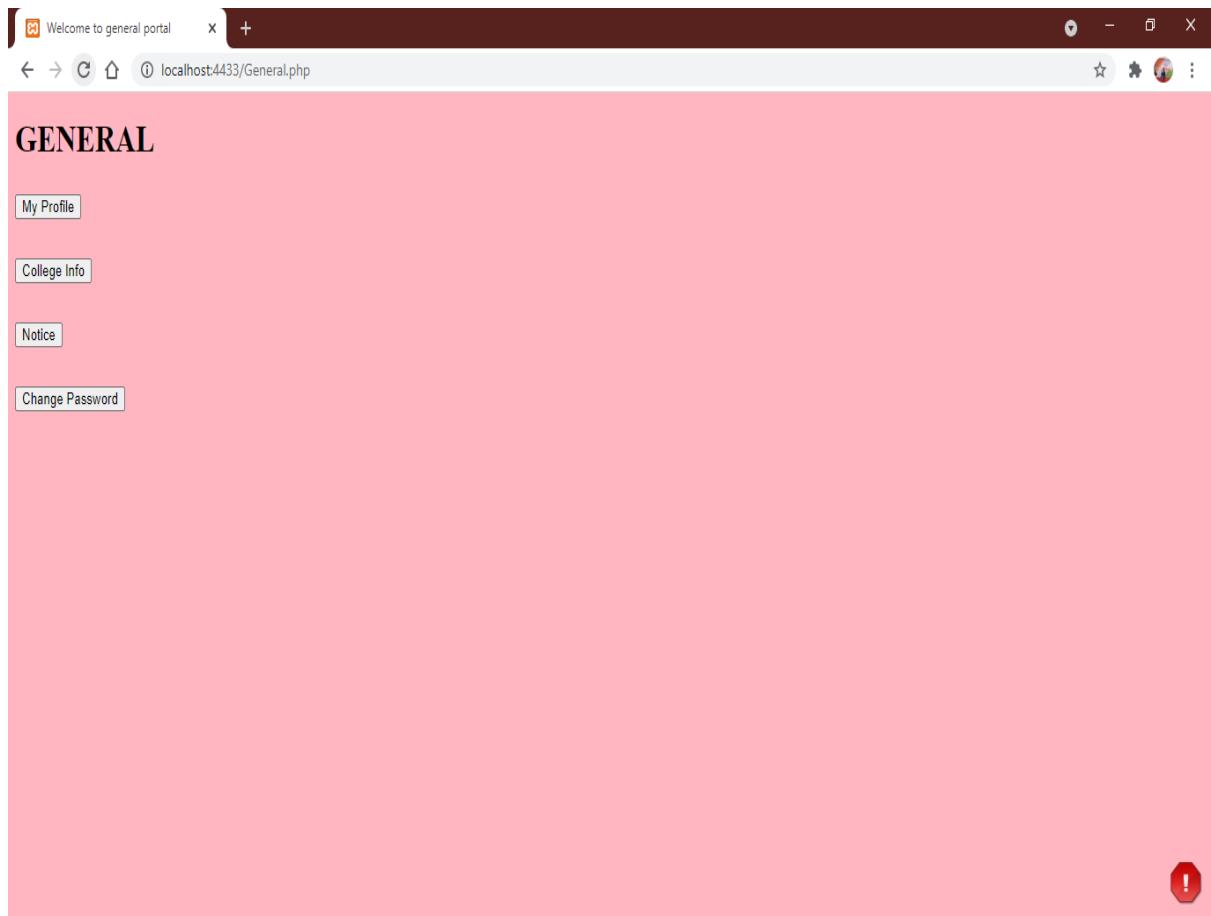
Screenshot of entering detail of home page:



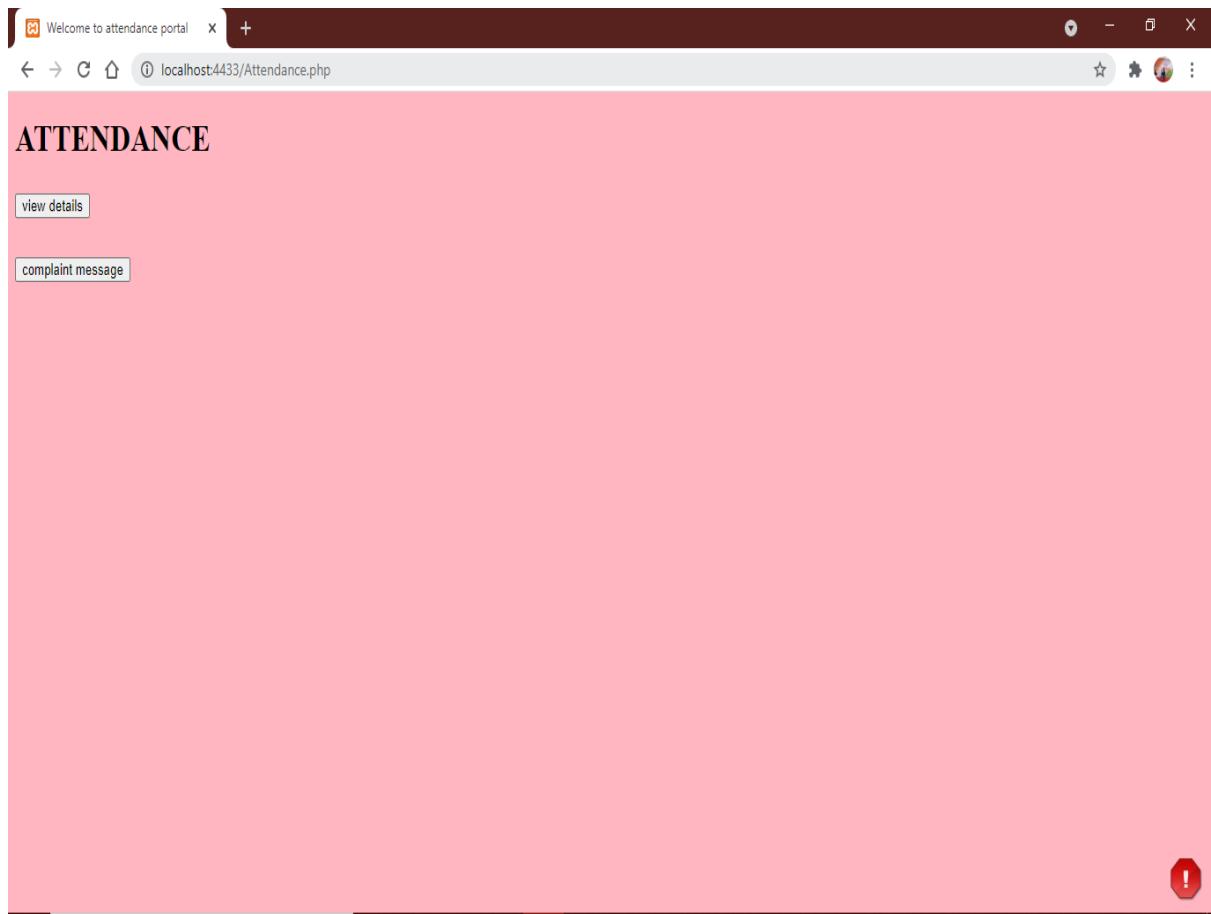
Screenshot of student portal after submitting the home page:



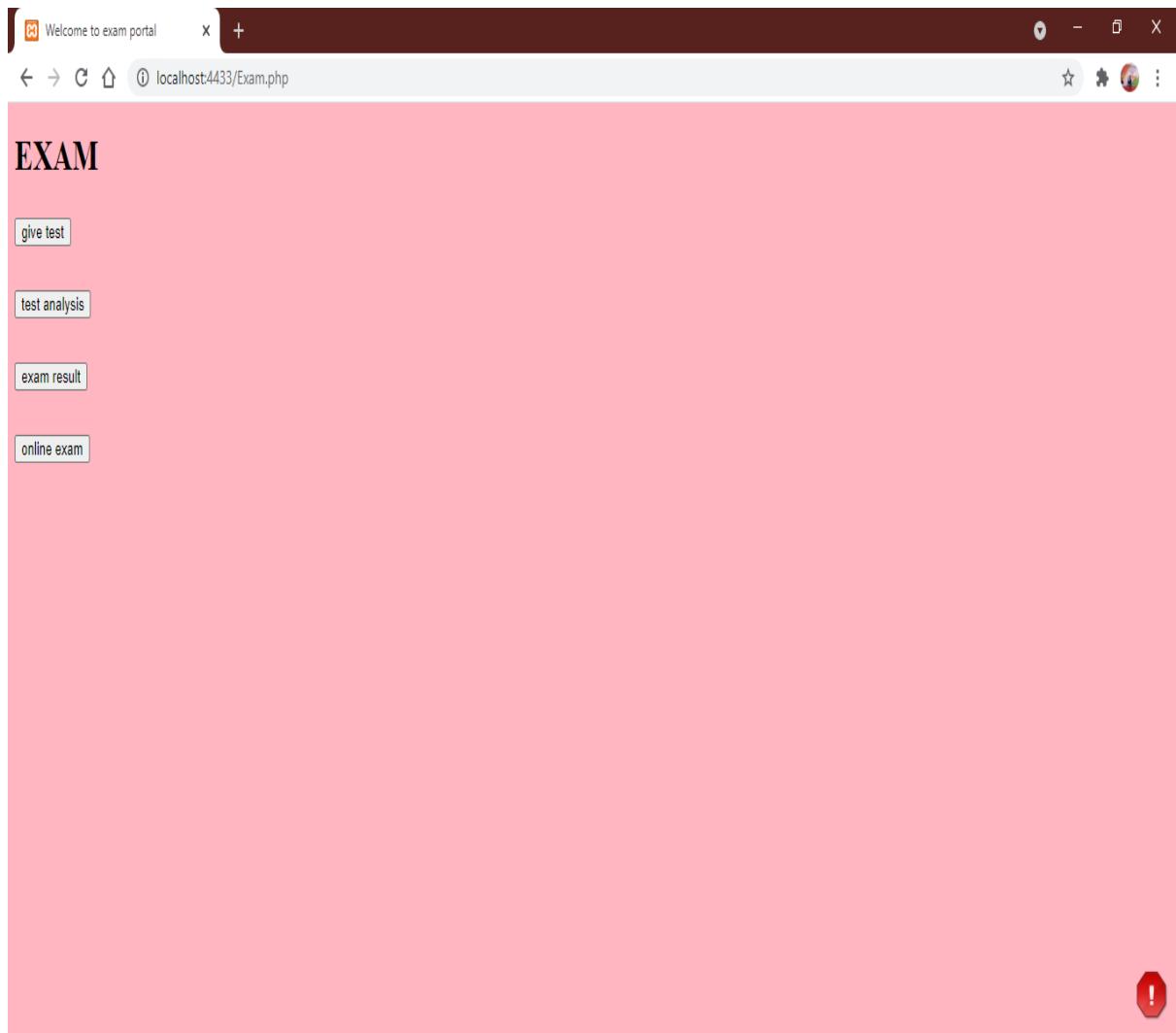
Screenshot of general option in student portal:



Screenshot of attendance option in student portal:



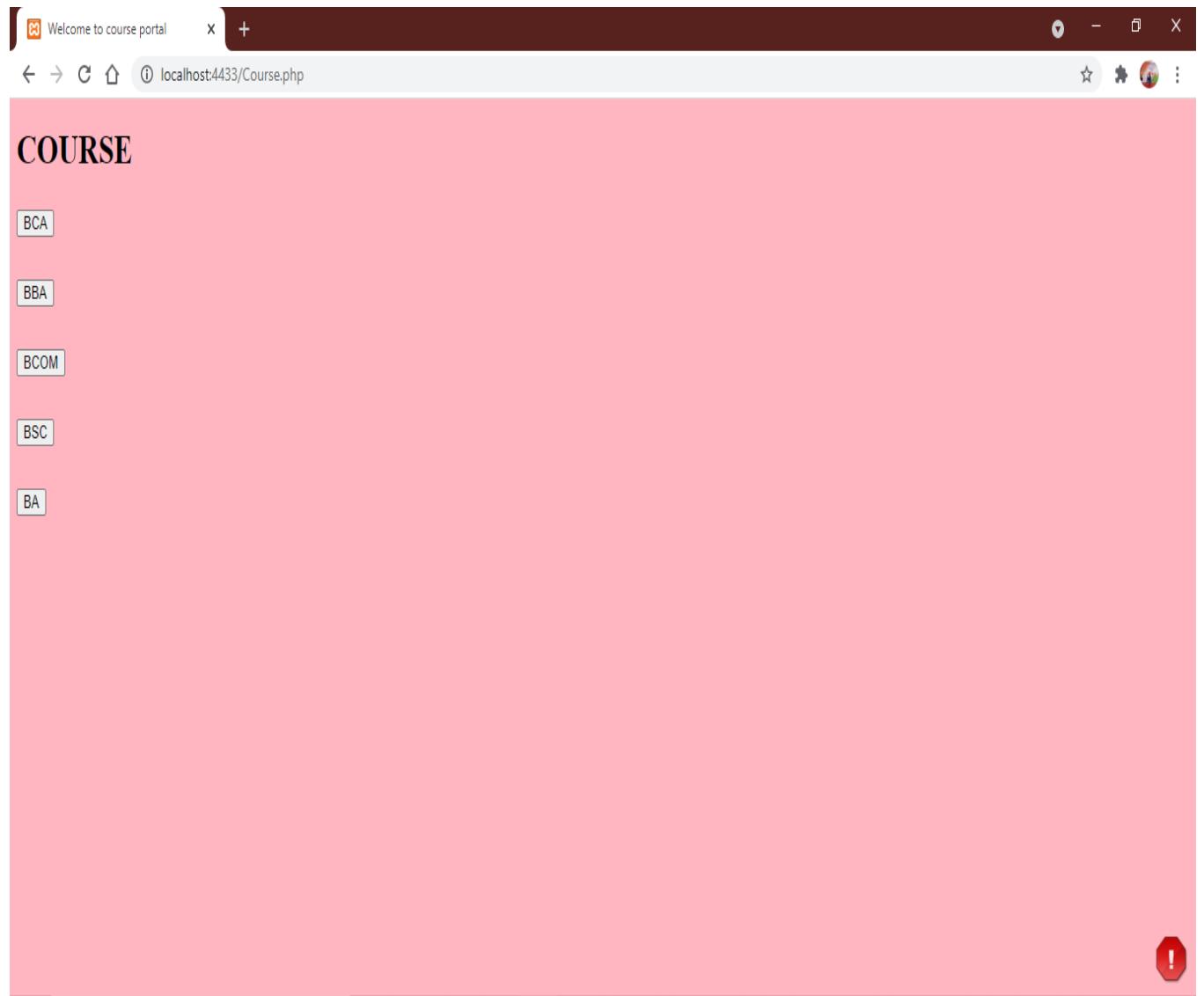
Screenshot of exam option in student portal:



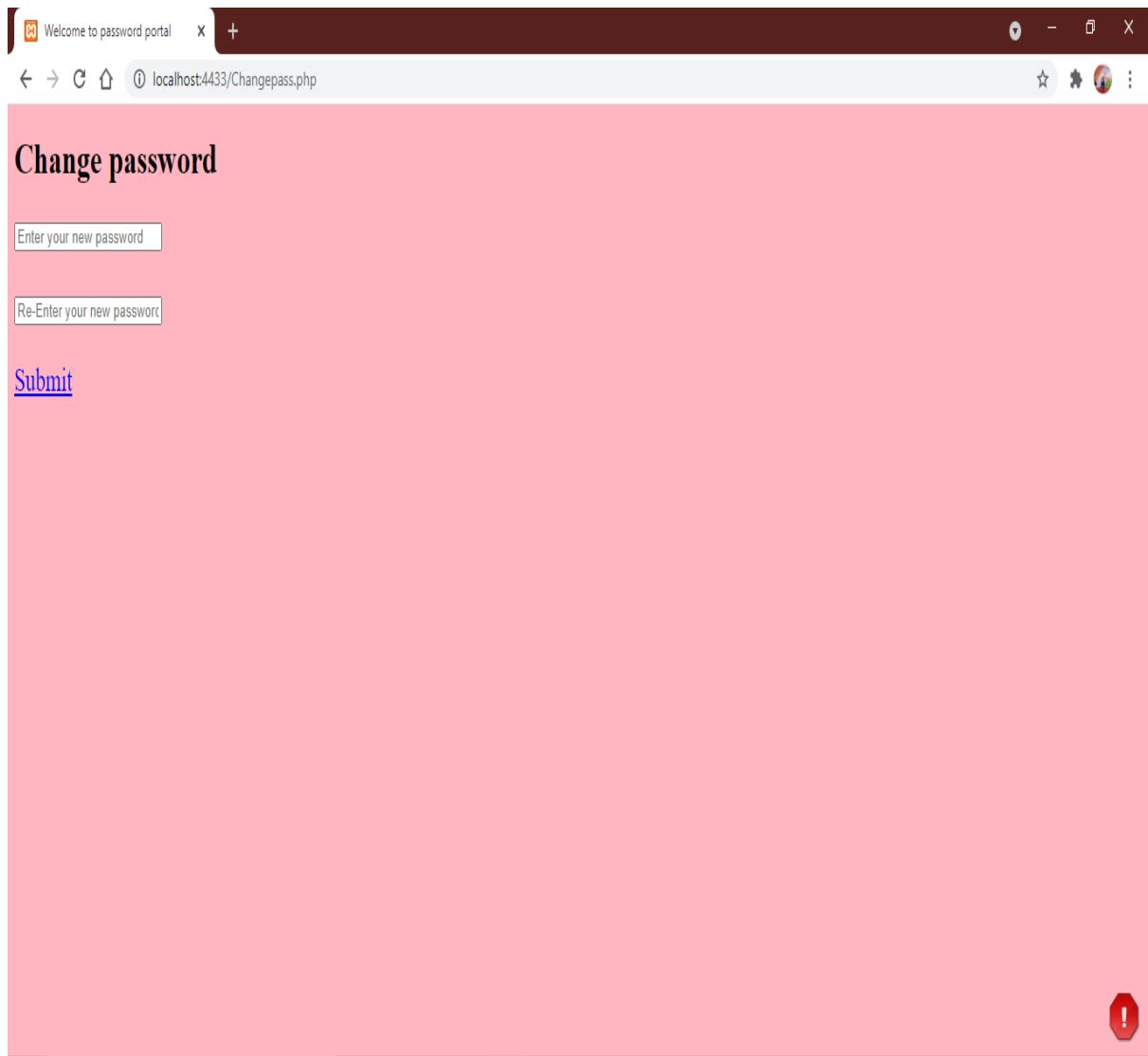
Screenshot of class option in student portal:



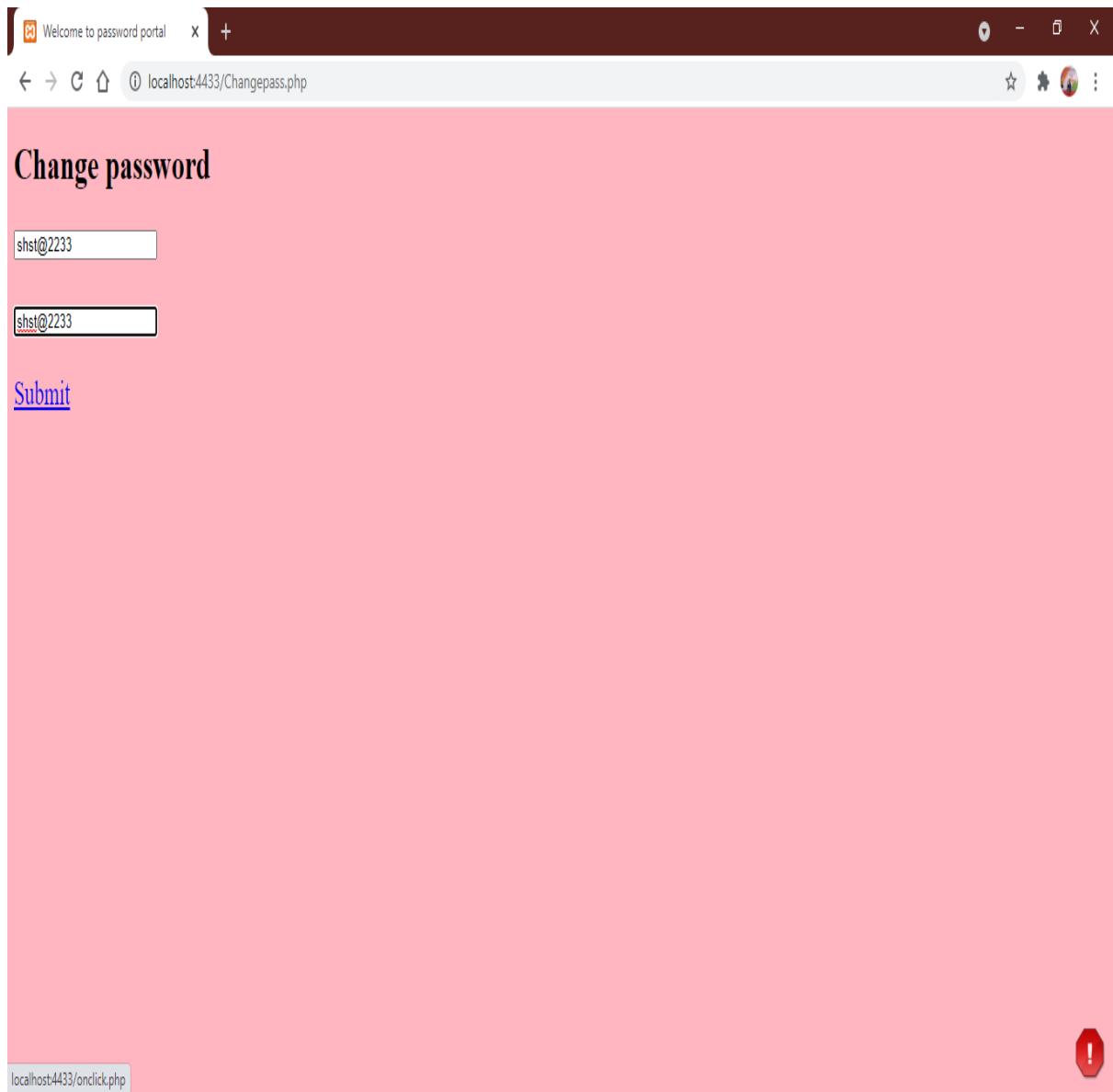
Screenshot of course option in student portal:



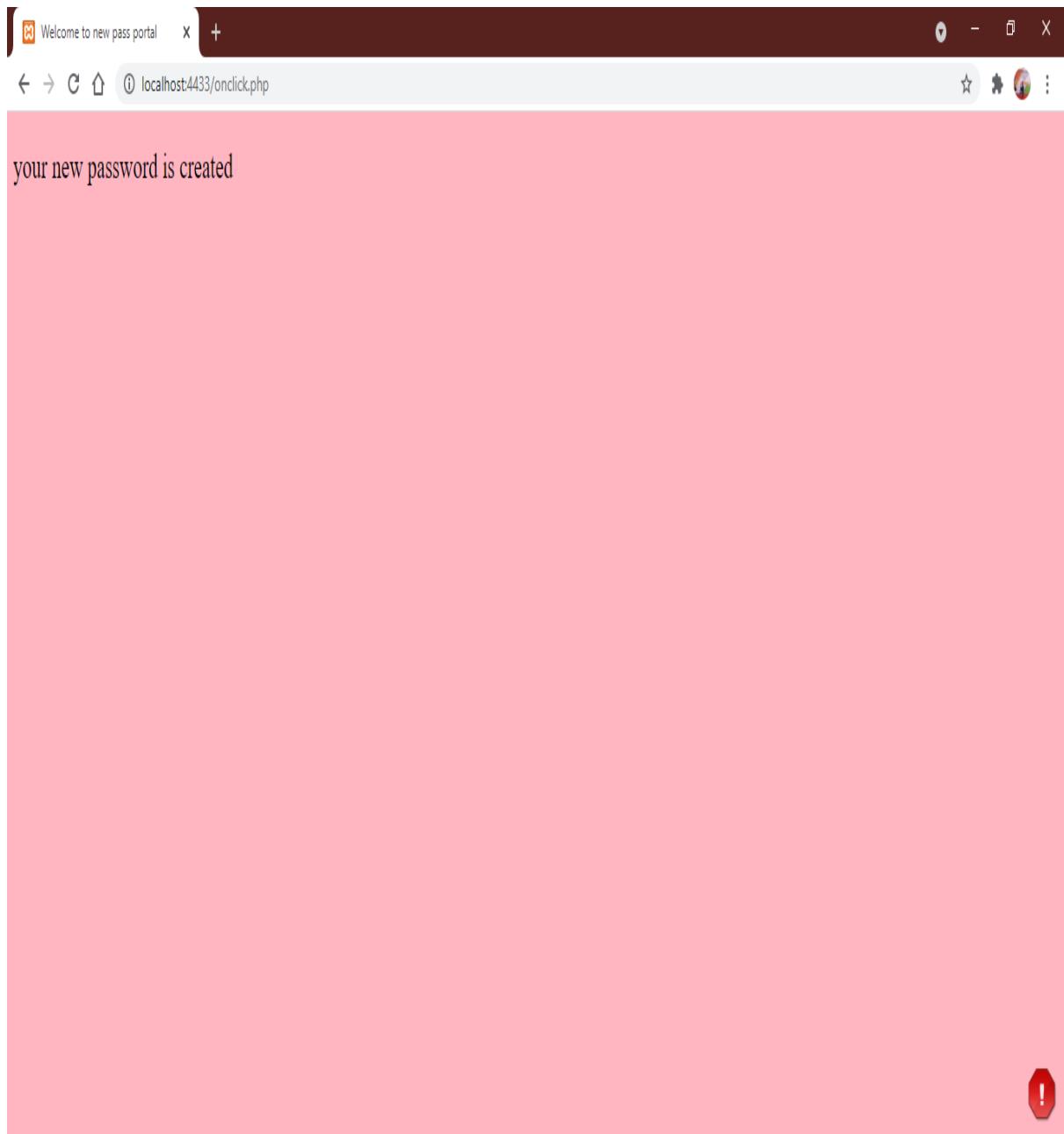
Screenshot of change password option inside password in student portal:



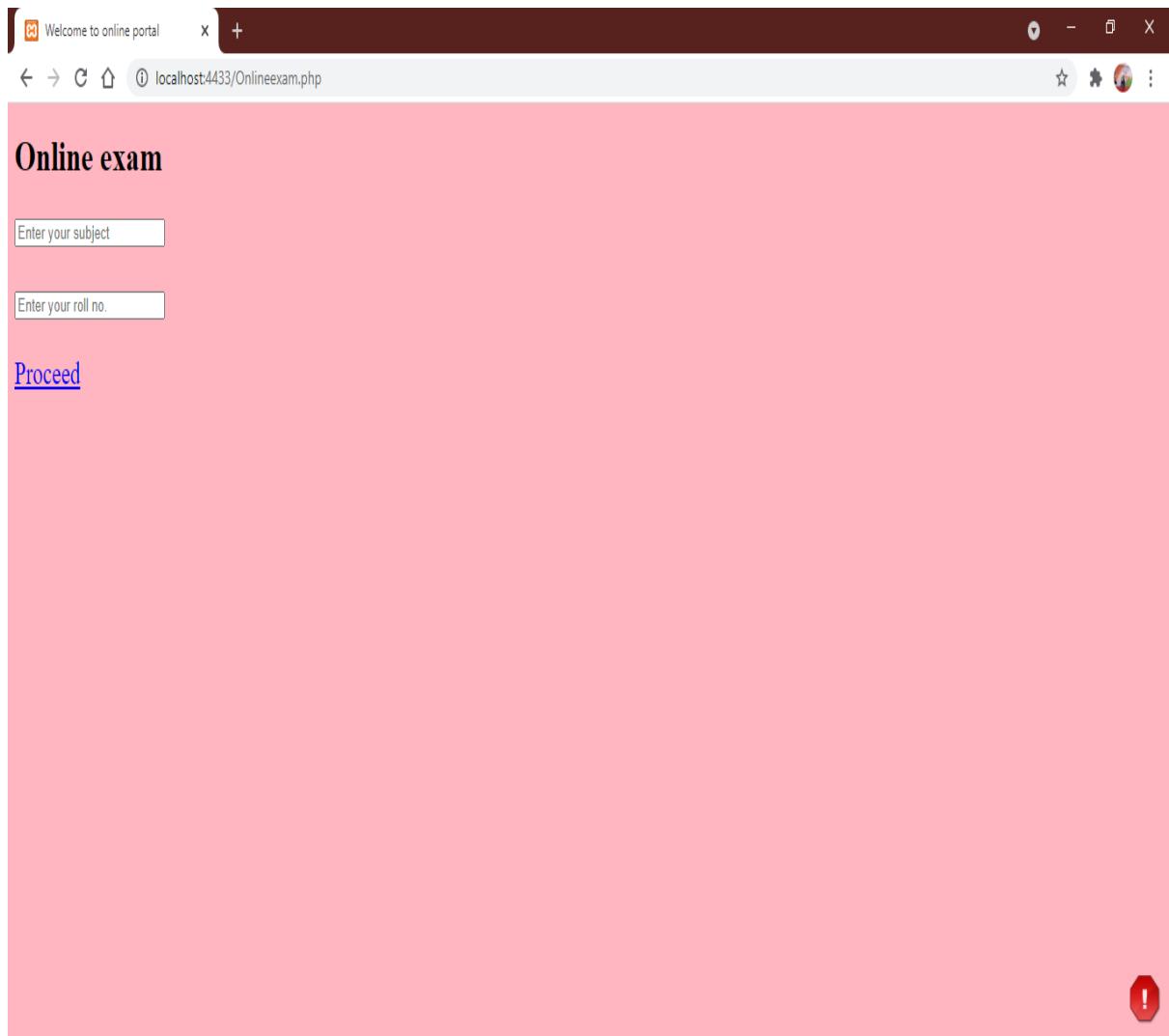
Screenshot of changing password inside password in student portal:



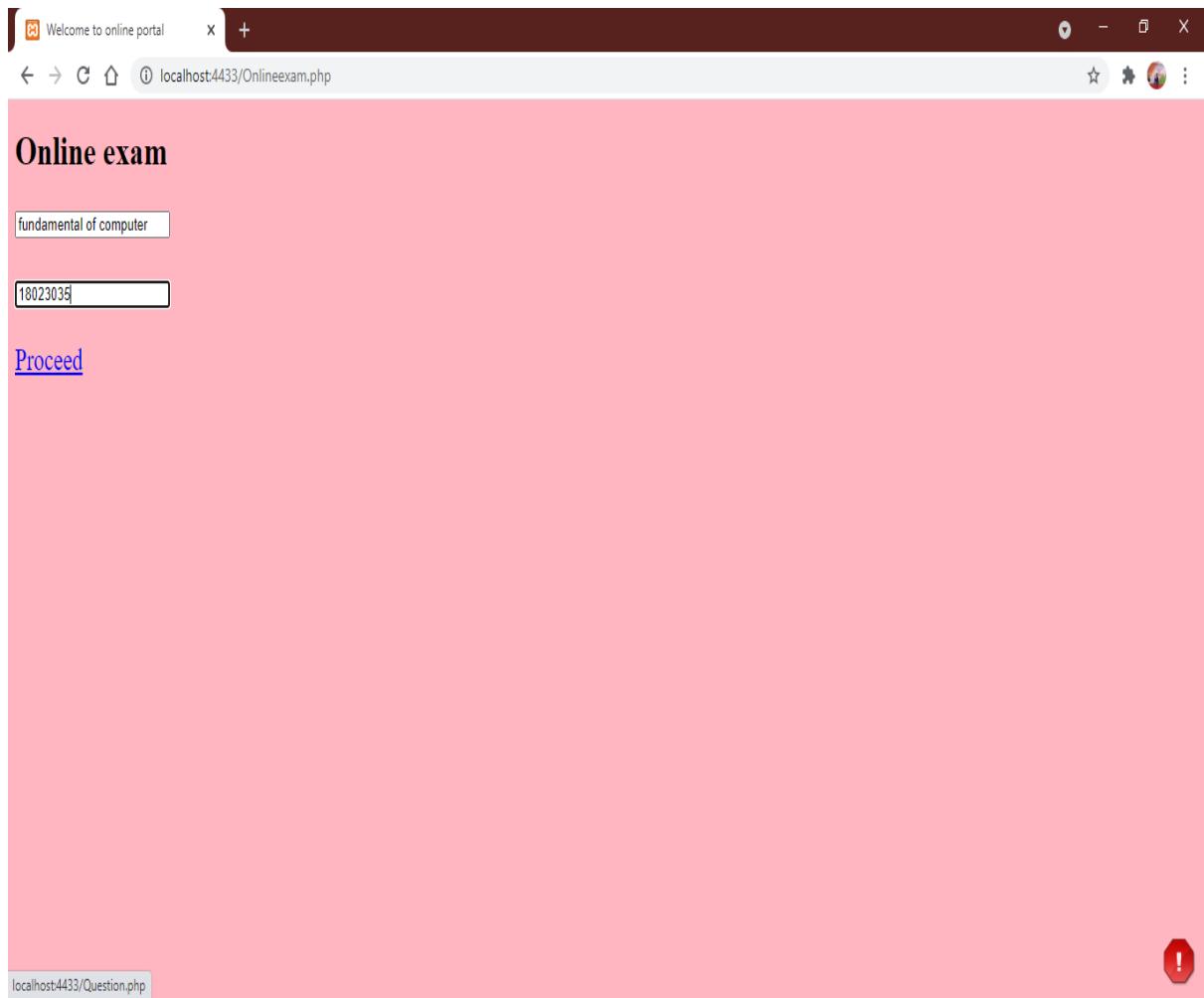
Screenshot of changing password successfully inside password in student portal:



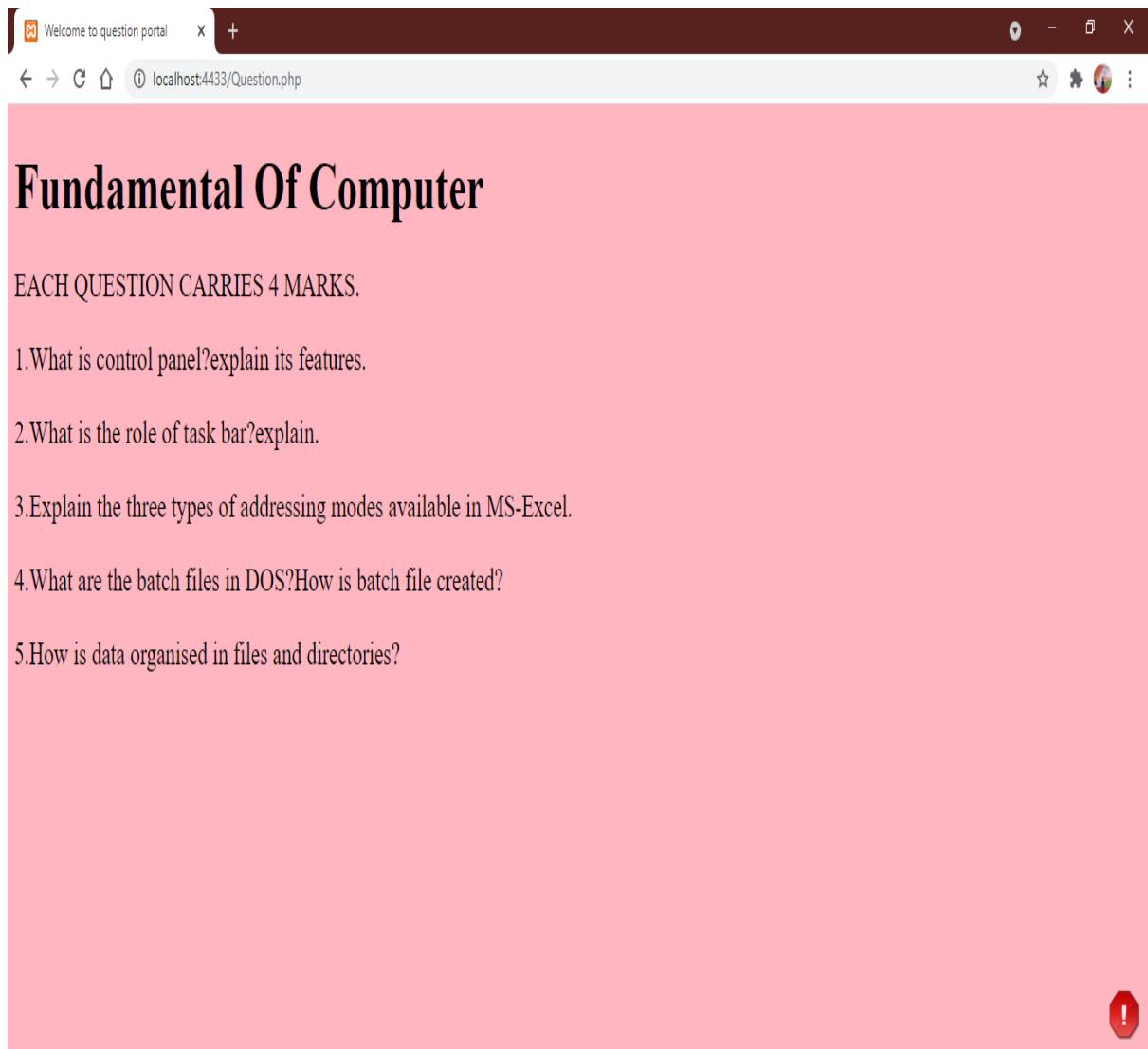
Screenshot of exam option inside online exam in student portal:



Screenshot of filling details inside online exam in student portal:

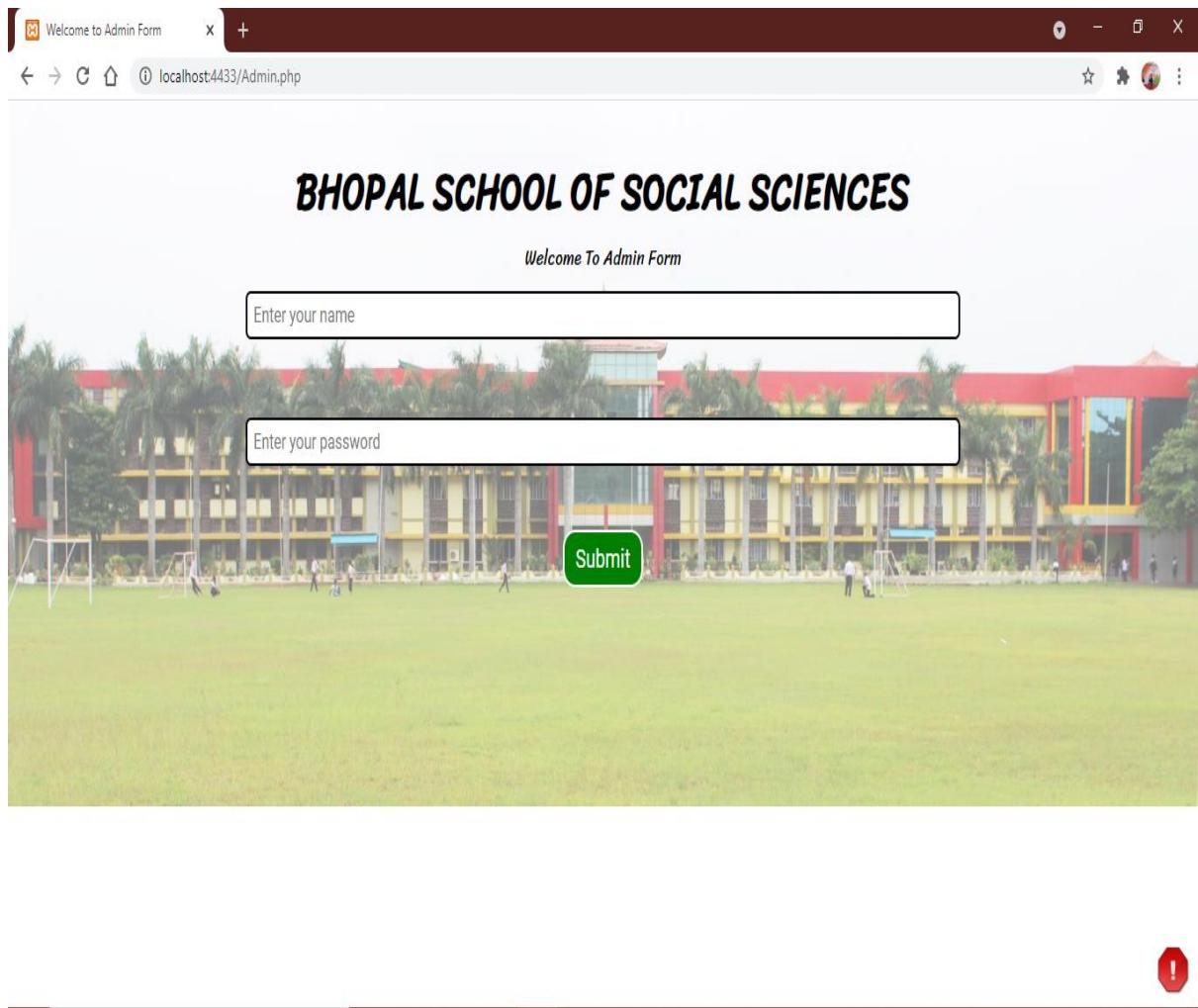


Screenshot of question paper of exam after filling details inside online exam in student portal:

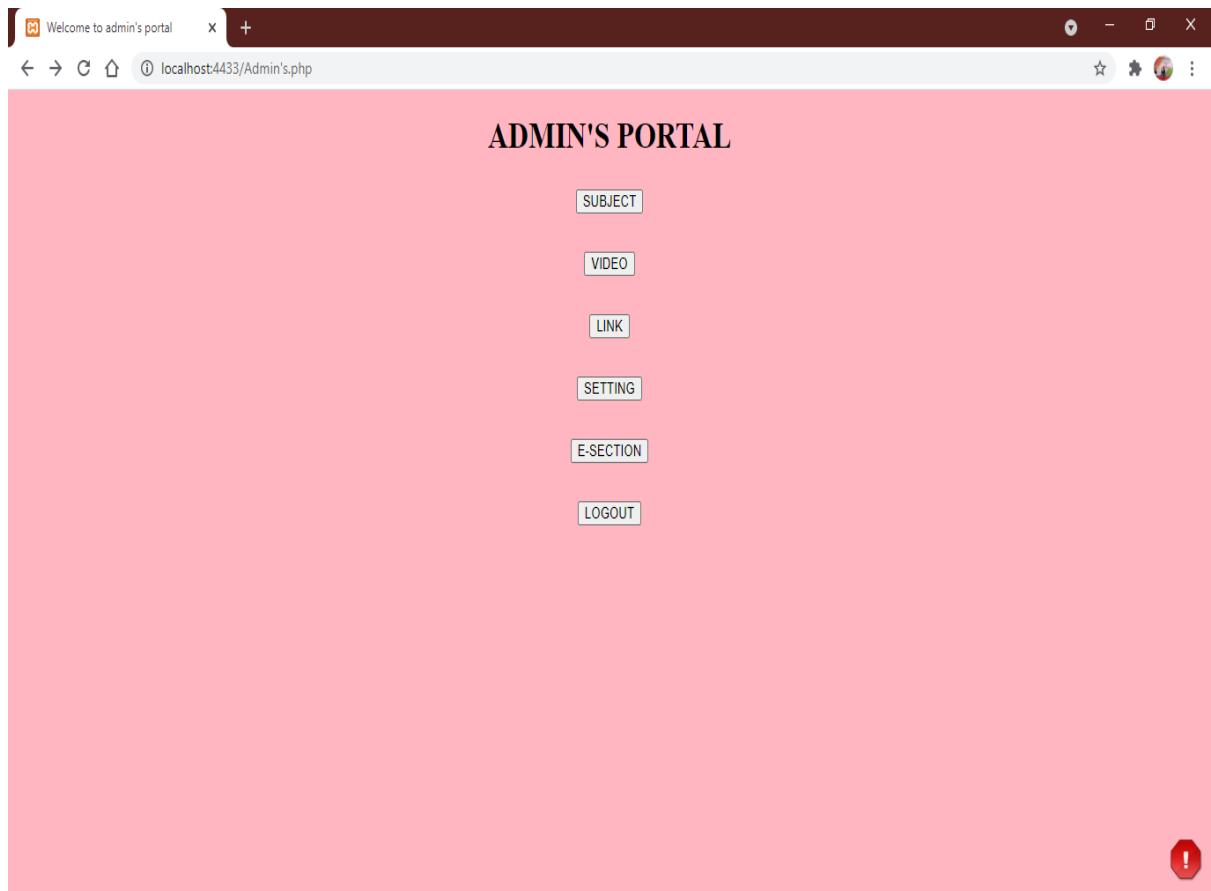


System Implementation for Admin

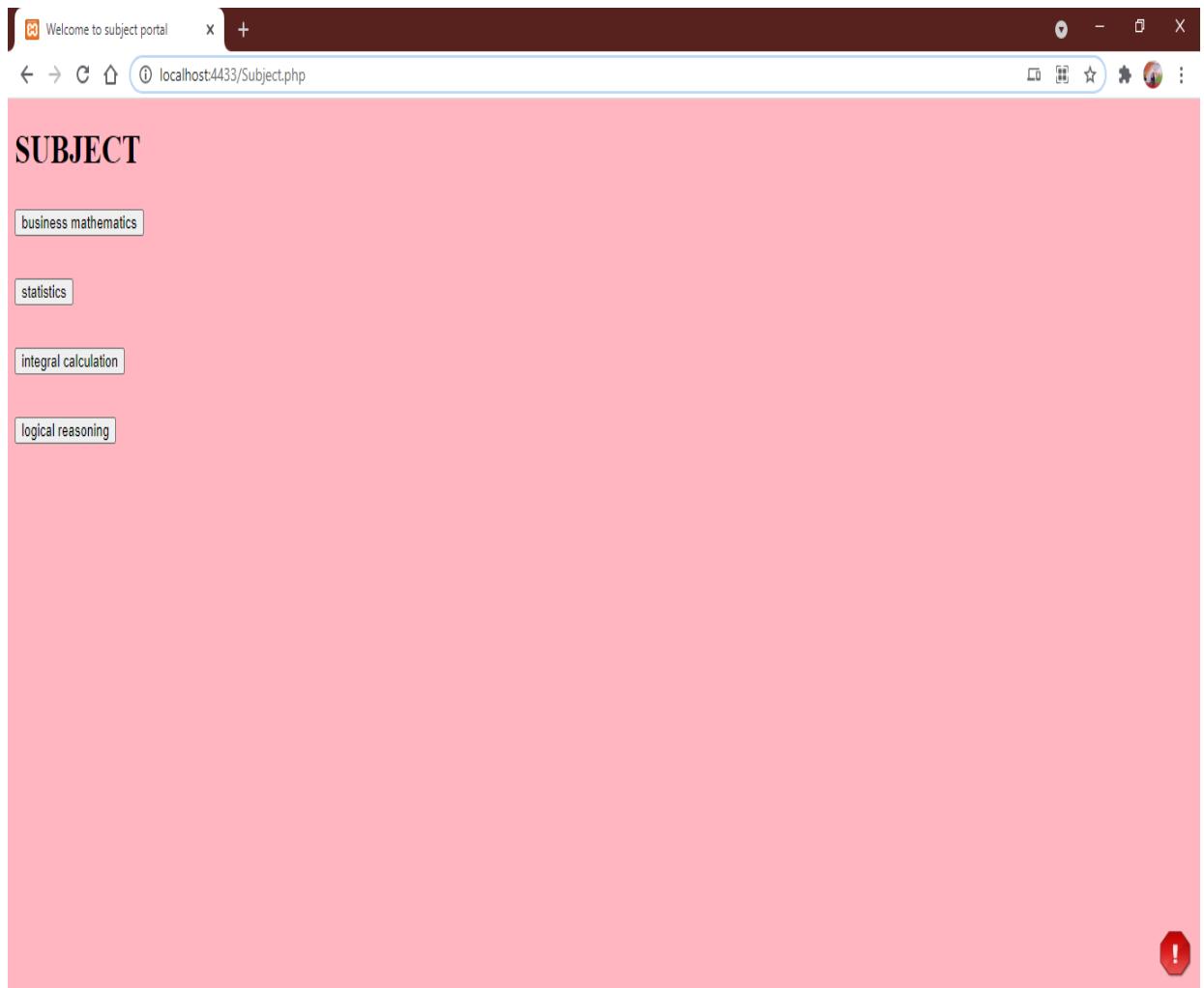
Screenshot of home page in for Admin:



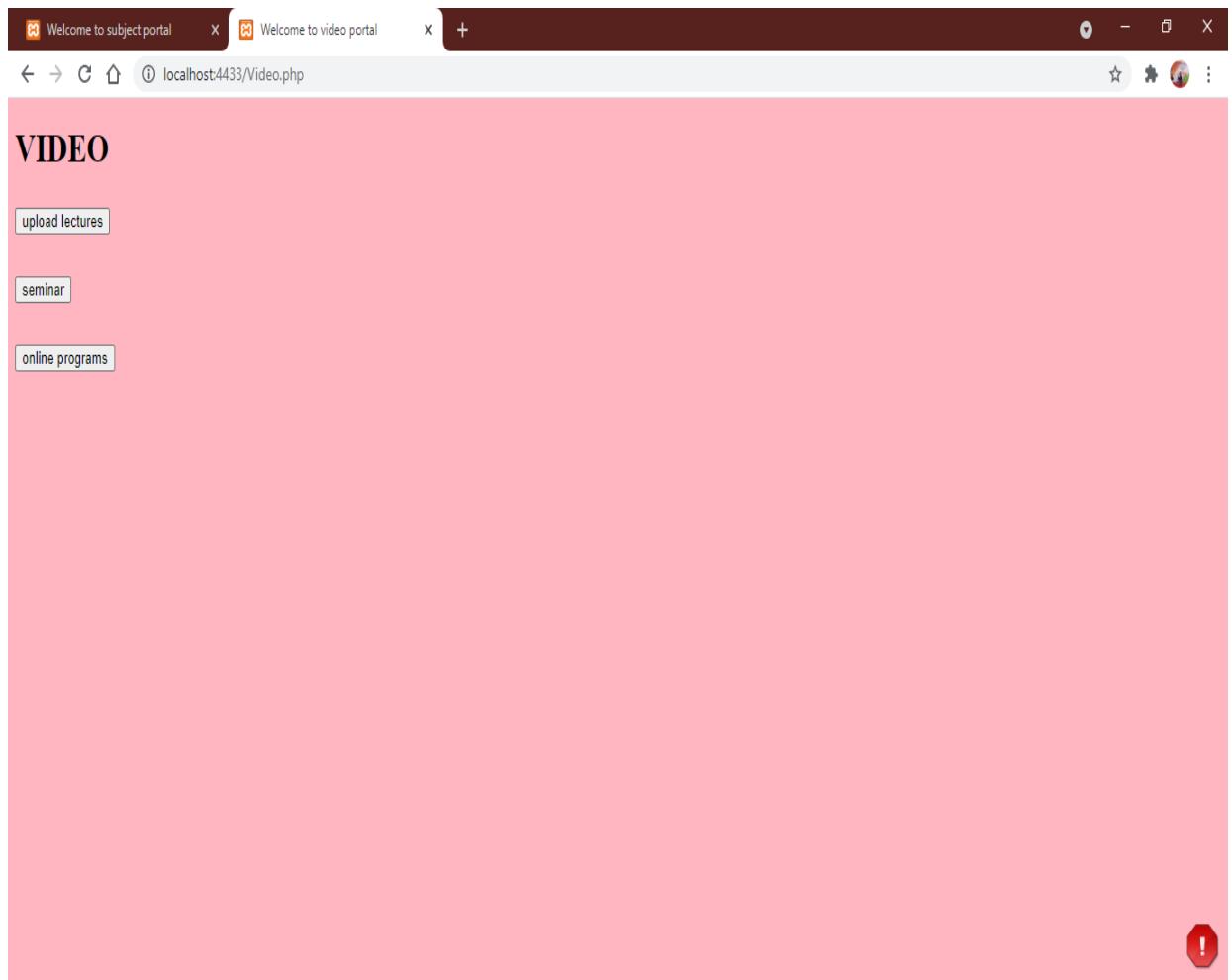
Screenshot of class next page after submitting the home page which opens admin portal:



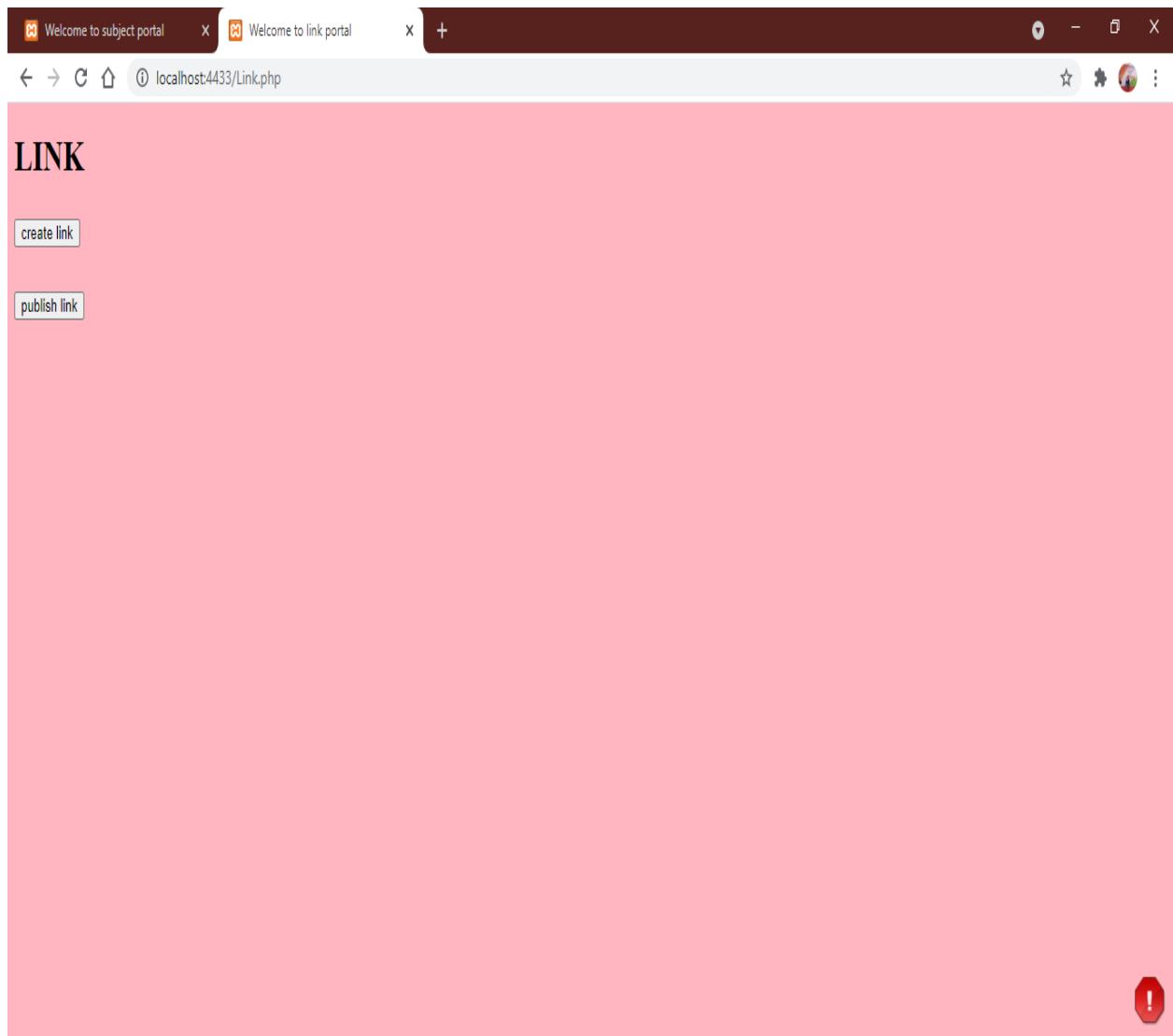
Screenshot of subject option in admin portal:



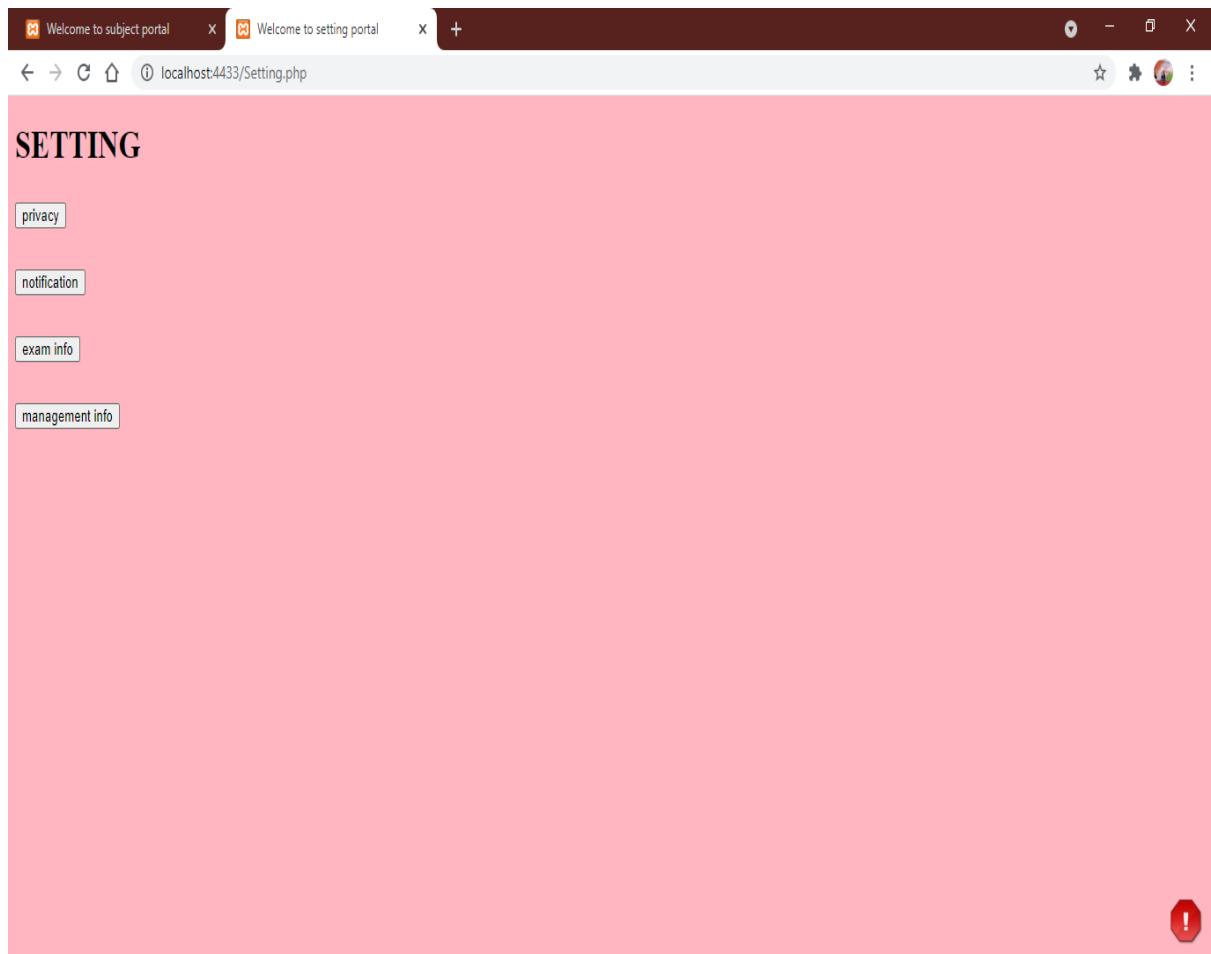
Screenshot of video option in admin portal:



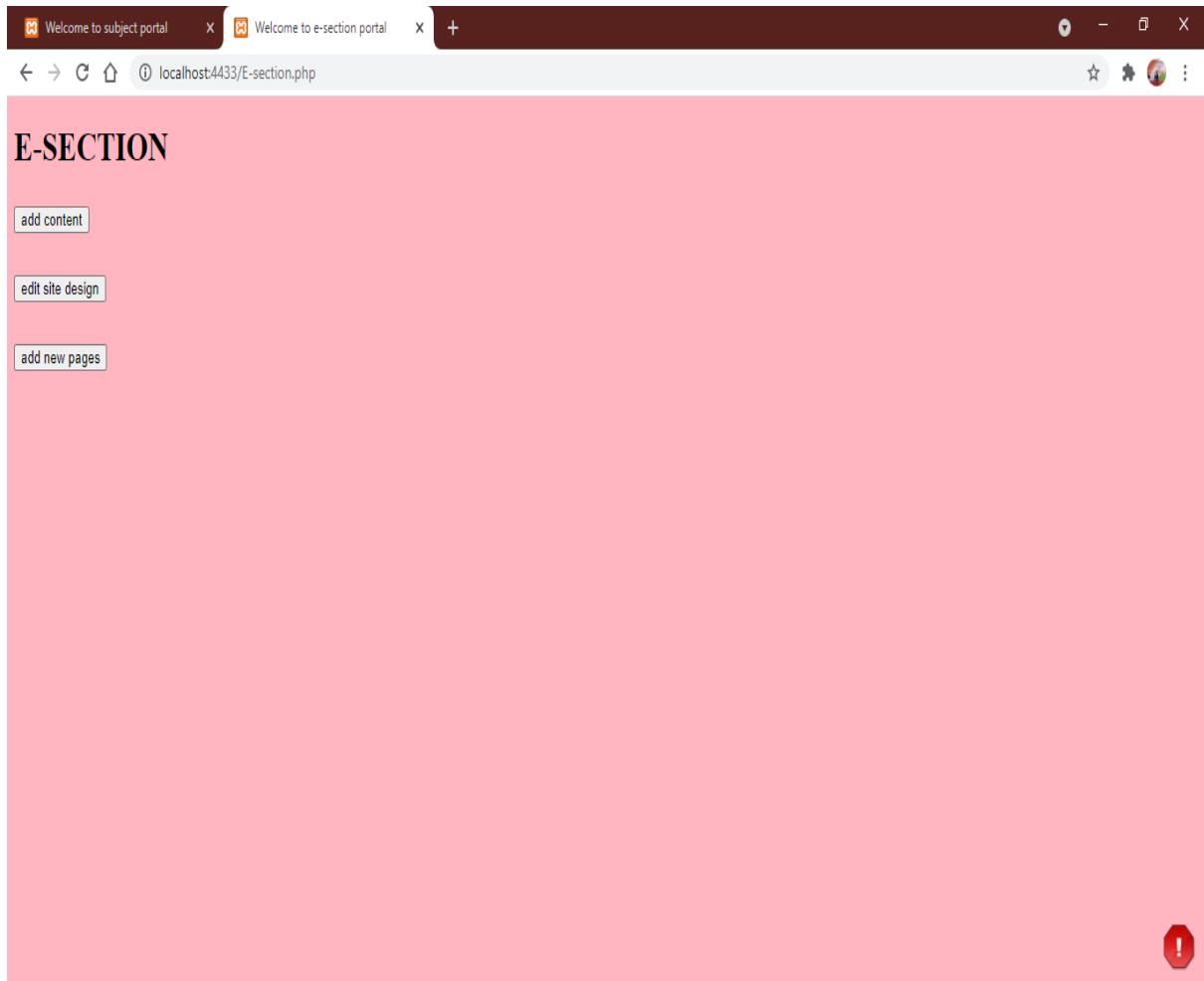
Screenshot of link option in admin portal:



Screenshot of setting option in admin portal:



Screenshot of e-section option in admin portal:



SYSTEM TESTING

The aim of the system testing process was to determine all defects in our project .The program was subjected to a set of test inputs and

various observations were made and based on these observations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

- 1.Unit testing
- 2.integration testing

UNIT TESTING

Unit testing is undertaken when a module has been created and successfully reviewed .In order to test a single module we need to provide a complete environment ie besides the module we would require

- The procedures belonging to other modules that the module under test calls
- Non local data structures that module accesses
- A procedure to call the functions of the module under test with appropriate parameters

Test For the admin module

- Testing admin login form-This form is used for log in of administrator of the system.In this we enter the username and password if both are correct

administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for username and password

- Student account addition- In this section the admin can verify student details from student academic info and then only add student details to main library database it contains add and delete buttons if user click add button data will be added to student database and if he clicks delete button the student data will be deleted
- Book Addition- Admin can enter details of book and can add the details to the main book table also he can view the books requests .

2. Test for Student login module

- Test for Student login Form-This form is used for log in of Student .In this we enter thelibraryid, username and password if all these are correct student login page will open otherwise if any of data is wrong it will get redirected

back to the login page and again ask for libraryid, username and password.

- Test for account creation- This form is used for new account creation when student does not fill the form completely it asks again to fill the whole form when he fill the form fully it gets redirected to page which show waiting for conformation message as his data will be only added by administrator after verification.

3. Test for teacher login module-

Test for teacher login form- This form is used for logg in of teacher .In this we enter the username and password if all these are correct teacher login page will open other wise if any of data is wrong it will get redirected back to the login page and again ask for username and password.

INTEGRATION TESTING

In this type of testing we test various integration of the project module by providing the input .The primary objective is to test the module interfaces in order to ensure that no errors are occurring when one module invokes the other module.

Software Tools

HTML:-It stands for Hyper text mark up language.It consists of tags enclosed in angle brackets like <html>.Tags most commonly come in pairs like <h1> and </h1>.There are many tags for showing images,lists,starting tag,ending tag,first tag,empty elements,etc.

PHP:-It stands for Hypertext pre-processor.It is a server side scripting language.It is mainly designed for web development but also used as a general-purpose programming language.

MY SQL:-SQL stands for structured query language.It is a popular choice of database for use in web applications.

For commercial use,server paid editions are available, and offer additional functionality.Applications which we use MySQL databases.

JAVA SCRIPT- JavaScript(JS) is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow clientside scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is

displayed. It is also being used in server-side programming, game development and the creation of desktop and mobile applications. JavaScript is a prototype-based scripting language with dynamic typing and has first-class functions. Its syntax was influenced by C. JavaScript copies many names and naming conventions from Java, but the two languages are otherwise unrelated and have very different semantics. The key design principles within JavaScript are taken from the Self and Scheme programming languages. It is a multiparadigm language, supporting object-oriented, imperative, and functional programming styles.

CSS- Cascading Style Sheets(CSS) is a style sheet language used for describing the look and formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind of XML document, including plain XML, SVG and XUL. CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation. CSS is designed primarily to enable the separation of document

content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification.

Future Scope & Conclusion

This website is actually beneficial to the staffs as well as the staff members of the the institution.

It makes all the procedures online where students can search books,staffs are able to provide notifications and reports.It has login facility where students can see the status of books issued as well as staff can upload lectures and see the status of student's response. It also has a facility for student login where student can login and can see

status of books issued as well request for book or give some suggestions. It has a facility of teacher's login where teachers can add lectures notes and also give necessary suggestion to library and also add info about workshops or events happening in our college or nearby college in the online notice board.

There is a future scope of this facility that many more features such as online lectures video tutorials can be added by teachers as well as online assignments submission facility,a feature of group chat where students can discuss various issues of studies can be

added to the project.