Reality Show

Management System

Software Engineering Project

SOFTWARE PROJECT PLAN FOR REALITY SHOW MANAGEMENT

CERTIFICATE

Certified that this is a bonafide record of the project
work entitled

"REALITY SHOW MANAGEMENT"

Done by the following students

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Of B.Sc.(H) COMPUTER SCIENCE, IV semester

Studying in ATMA RAM SANATAN DHARMA COLLEGE

Submitted in partial fulfillment of the requirements for the
Degree of B.Sc.(Honours) in Computer Science from
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UNIVERSITY OF DELHI

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PROBLEM STATEMENT

After make an observation on the current process of REALITY SHOW MANAGEMENT, it is found that every single thing is done completely by manual.

To manage the show facilities, a lot of data needs to be maintained such as no. of participants, rules, guest, live voting system, auditions, etc. So, this need the system which has ability to capture all kind of data and information and analysis it properly for smooth functioning of the show.

PROCESS MODEL

For our project, waterfall model will be the most suitable model because-

- Requirements are very clear, well known and fixed.
- Product definition is stable.
- There are no is moderate in size and complexity.

WATERFALL MODEL

Communication

Project initiations
requirements
gathering

Planning

Estimation
scheduling tracking

Modelling

Analysisdesign

Construction

Code
text

Deployment

Delivery support
feedback
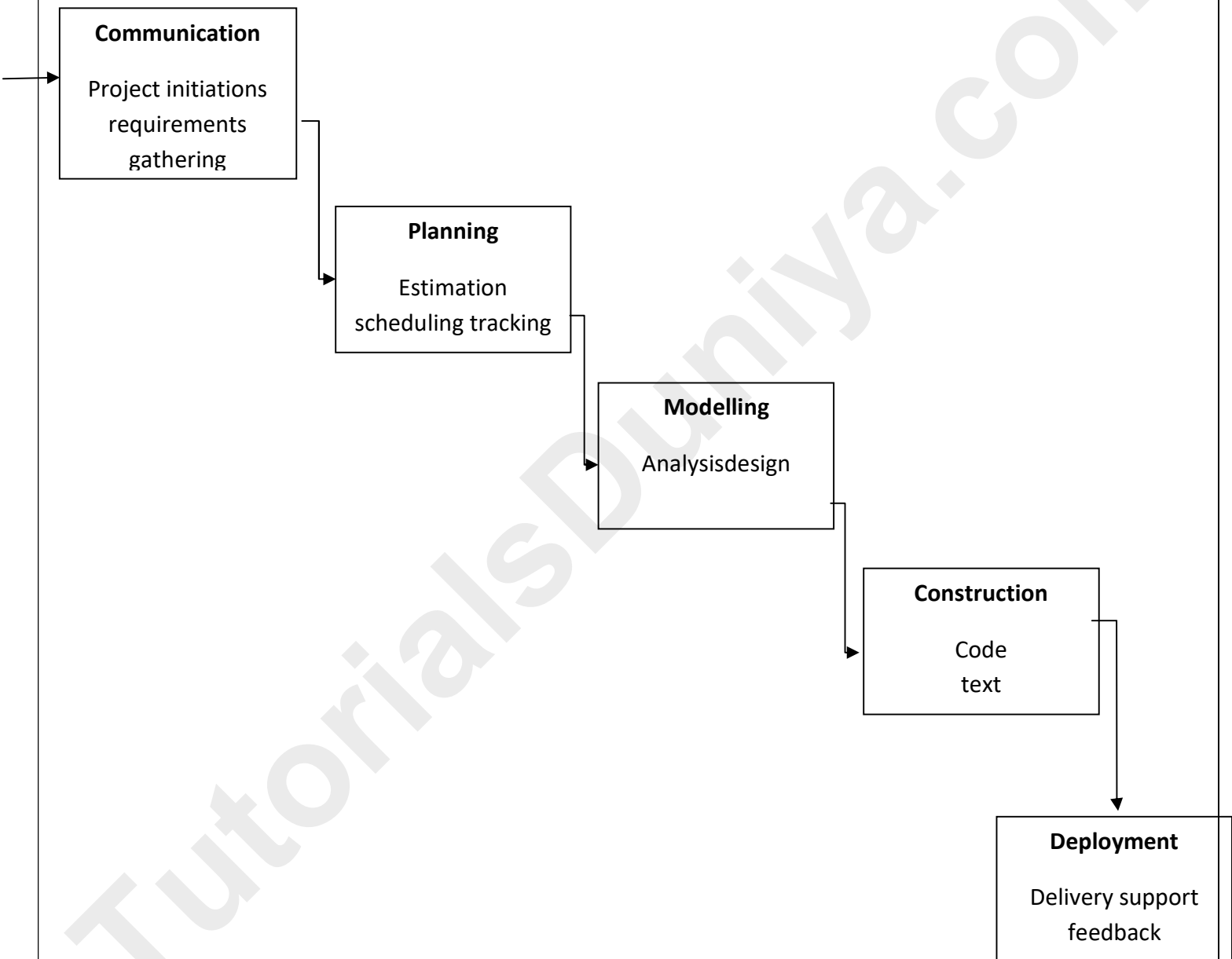
INTODUCTION

REALITY SHOW Management System is intranet-based application that concentrates on the arteries of commercial transactions, which is properly established between the various customers and the SHOW Management Team in conducting the events and maintaining associated transactions. Reality show management organization in conducting various events, with the use of the Electronic media

The purpose of the project:

-analyze the requirements of design.

-implement and maintain the software for both production team and client according to the requirements specified by the client.

❖ The objective of this project are to:

- Complete the project by the project due date.
- Complete the project within budget.
- Fulfill all stated requirements, as in the Software Requirement Specification.
- To generatethe quick reports.
- To make accuracy and efficient calculations.
- To provide proper information briefly.
- To provide data security.
- To provide huge maintenance of records.
- Flexibility of transactions can be completed in time.
- After understanding the existing system and understanding the needs for developing a new system different people involved in the related activities

have been consulted. The data needed for the study has been collected from company records.

- The computerization of this system would avoid the wrong interpretation and bad calculation of data. The system help the user to see any documents,source code,tasks,activities,team informationwith details at the click of a button.

- The record data is maintained and backed up such a way that data is not loss. The speed of the system could also increase.

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OVERALL DESCRIPTION

• PRODUCT FUNCTIONS

A Distributed Reality Show database system stores the following information

- **Shows details:**It includes the production of a reality show, description of show timings etc.
- **Participant description:** it includes participants code, name, address and phone number. This information may be used for keeping the records of participants for their details.
- **Registration description:** it includes participants details, code number, registration number, date of registration, date of audition.

USER CLASS and CHARACTERISTICS

User of the system should be able to retrieve reality show information from the database. A production team get the information about the participant by its participant id and also audition type. It help to know about show timings and its management. The system will support two type of user privilege i.e.Employee and participant. Participant will have access to customer function, and employees will have access to both participant and show management functions. The participant should be able to do the following functions:

- **Make a registration**
- **Login**
- **Show details**
- **Flexible date /time**
- **Confirmation**
- **Audition schedule**
- **Cancel registration**
- **View his itinerary**

The employee should have following management functionalities:

- **PARTICIPANT FUNCTIONS.**
- **Get all participants who have registered for the audition.**
- **Get all audition for the show.**
- **View show schedule.**
- **Get all audition times are on time /delayed.**
- **Calculate total cost for the show.**

- **ADMINISTRATIVE**

- **Add /delete an audition.**
- **Add a new show.**
- **Update show details.**

Each show have limited number of available participants. There are number of audition which held on different dates and time.

GENERAL CONSTRAINTS

DB	Database
DDB	Distributed database
ER	Entity Relationship

DATA FLOW DIAGRAMS

A DFD also known as 'bubble chart', has the purpose of clarifying system requirements and identifying major transformations. It shows the flow of data through a system. It is a graphical tool because it presents a picture. The DFD may be partitioned into levels that represents increasing information flow and functional detail.

DFD LEVEL 0

registration

Admin register

Registration details

Store details

PARTICIPANT

ADMIN

LOG IN

REALITY SHOW MANAGMENT

LOG IN

SEARCH SHOW DEAILS

UPDATE SHOW DETAILS

LEVEL 1 DFD

ADMIN

Login — Logging in

Login details

Access details

User details

Show details — Access show details

Search show for details

Getting show details from database — Details of show

Participant

Update show details — Store show details

Updating show details

Storing selection — Selected show for audition

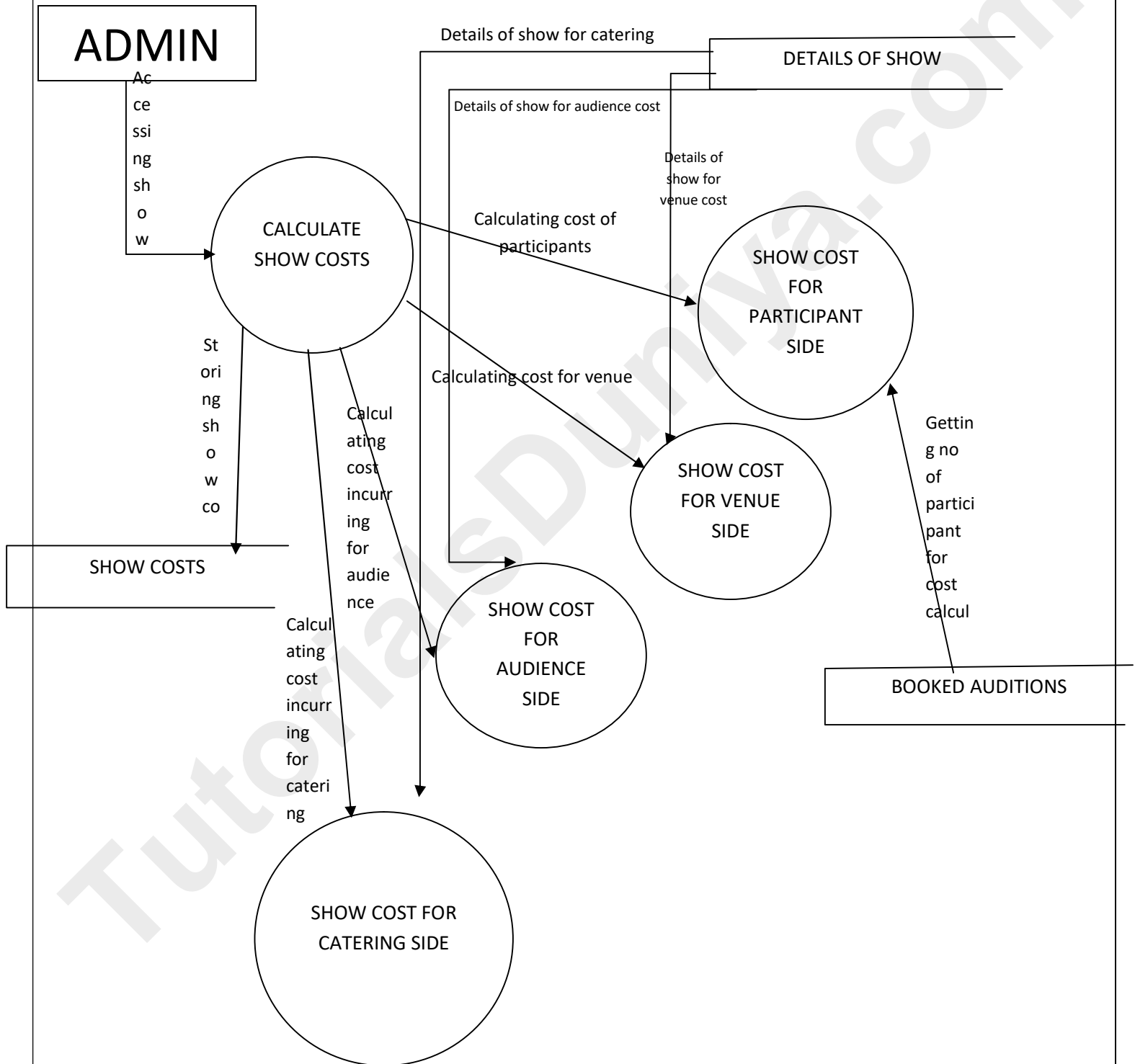Show selection for auditions

Select show for auditions

Confirm audition booking

Accessing details of selected auditions

Cancelation of auditions

Book auditions — Booked auditions

Storing booked details

Cancel auditions — Delete booked details

Update details

Show cost

Accessing details of participants

Get all participants registered for auditions — Getting participant details from database

Bank

Storing show cost

Access co

Payment details

Calculate show cost — Accessing show details for cost

Getting no of participant for cost calculation

Payments

Payments

Storing/deleting details of show

Add/delete show — Adding/ deleting new show

Payments success

Show conductor

LEVEL 2 DFD

ADMIN

Accessing show

Details of show for catering

DETAILS OF SHOW

Details of show for audience cost

Details of show for venue cost

CALCULATE SHOW COSTS

Calculating cost of participants

SHOW COST FOR PARTICIPANT SIDE

Storing show co

Calculating cost incurring for audience

Calculating cost for venue

SHOW COSTS

SHOW COST FOR VENUE SIDE

Getting no of participant for cost calcul

SHOW COST FOR AUDIENCE SIDE

Calculating cost incurring for catering

BOOKED AUDITIONS

SHOW COST FOR CATERING SIDE

DATA DICTIONARY

LOGIN	[Username+ password]
USERNAME	[Alphabet+ digit+ special character]
PASSWORD	[Alphabets+ digit+ special character]*
PARTICIPANT'S NAME	[First name+ last name]
FIRST NAME	[Alphabet]*
LAST NAME	[Alphabet]*
DOB	[DD-MM-YYYY]
DD	[Number]
MM	[Number]
YY	[Number]
EMAIL ID	[Alphabet+ digit+ special character]*

ESTIMATIONS

FUNCTION POINT

The function point (FP) metric can be used effectively as a means for measuring the functionality delivered by a system.

FP is derived using an empirical relationship based on countable measures of software's information domain and qualitative assessments of software complexity.

EXTERNAL INPUTS		10	*	4	=	40
EXTERNAL OUTPUTS		14	*	5	=	70
EXTERNAL ENQUIRIES		03	*	4	=	12
INTERNAL LOGICAL FILES		5	*	7	=	35
EXTERNAL INTERFACE FILES		01	*	10	=	10

Parameter   count   average weighting factor

SUM TOTAL=40+70+12+35+10=167

FORMULAE

FP=COUNT TOTAL*[0.65+0.01*$\sum f_i$]

=167*[0.65+0.01*48]

=167*[1.13]

=188.71=189

FP=189

The Fi (I =1 to 14) are "complexity adjustment values" are based on the responses to the following questions. Each of the question is answered using a scale that ranges from 0to5

0-not important

1-applicable

2-moderate

3-average

4-significant

5-essential

RATING FOR THE POINTS

- 5
- 4
- 2
- 2
- 3
- 5
- 5
- 4
- 3
- 3
- 3
- 3
- 3
- 3

SUM TOTAL=∑f$_{i-}$ = 48

CALCULATION OF EFFORT

EFFORT = FUNCTION POINT/6.5

=189/6.5

=29.07

Our effort is 30 person month

TIME LINE CHART

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RISK MANAGEMENT

Risk management is the identification, assessment, and prioritization of risks followed by coordinated and economical application of resources to minimize, monitor, and control the probability and/or impact of unfortunate events or to maximize the realization of opportunities. Risk management's objective is to assure uncertainty does not deflect the endeavor from the business goals.

RISK STRATEGIES

1) REACTIVE: A reactive strategy monitors the risk project for likely risk and set aside resources to deal with them, should they become actual problems.
2) PROACTIVE: A proactive strategy begins long before technical work is initiated. Potential risks are identified, their probability impact is assessed, and they are ranked by importance.
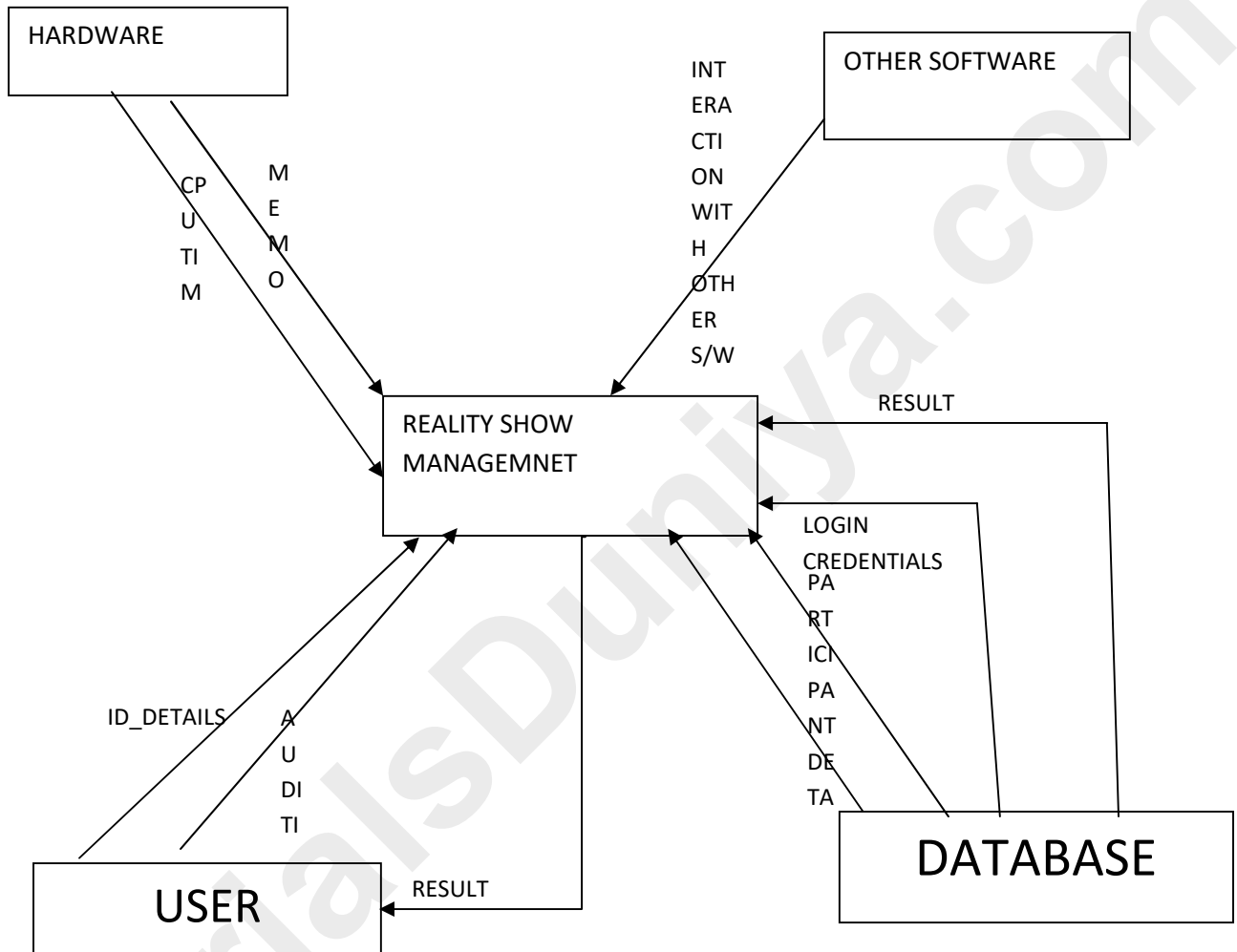
RISK MANAGEMENT-RMMM PLAN

RISK TABLE

RISKS	CATEGORY	PROBABILITY(%)	IMPACT	RMMM
Large no of users than planned	PS	70	3	Estimate number of users in advance
Lack of training on tools	DE	60	3	Staff must be trained to handle working of tools
Size estimate may be significantly low	PS	60	2	Detailed analysis to estimate size correctly
Delivery deadline will by tightened	BU	40	2	Pace of software construction to be checked timely
End user resist system	BU	40	3	Use prototyping to get better idea
Funding will be lost	CU	50	1	Budget must be planned in advance
Less reuse than plan	PS	30	2	Reusable components must be used to fasten design

Technology will not meet expectation	TE	10	1	Heavy customer involvement to ensure satisfaction
Customer will change requirements	PS	20	2	SRS should be documented in advance
Staff inexperience	ST	30	2	Experience staff must be hired
Staff turnover will be high	ST	20	2	Assign backup staff member for critical technologist

ARCHITECTURAL DESIGN

HARDWARE

OTHER SOFTWARE

INT
ERA
CTI
ON
WIT
H
OTH
ER
S/W

CP
U
TI
M

M
E
M
O

REALITY SHOW
MANAGEMNET

RESULT

LOGIN
CREDENTIALS

ID_DETAILS

A
U
DI
TI

PA
RT
ICI
PA
NT
DE
TA

DATABASE

USER

RESULT

PSEUDOCODE

1. **Void main()**
2. **{clrscr();**
3. **Intch;**
4. **Char id[50],password[50];**
5. **Cout<<"\n\t\t********WELCOME ADMIN******\n";**
6. **Cout<<"\t\t logging in…..\n";**
7. **Cout<<"Enter your login id:";**
8. **Gets(id);**
9. **Cout<<"\nEnter your password";**
10.   **Gets(password);**
11.   **If(strcmp(password,"1417admin2309")==0)**
12.   **{ cout<<"\n Login success\n";**
13.   **Cout<<"1.Authenticate registration\n"**
14.   **Cin>>ch;**
15.   **If (ch==1)**
16.   **{ cout<<"\n Enter registration details";**
17.   **Gets(details);**
18.   **If(details are valid)**
19.   **{ cout<<"your registration successful\n";**
20.   **Cout<<"your login id is:"<<newid;**
21.   **Cout<<"your password is :"<<newpwd;**
22.   **}**
23.   **Else**
24.   **Cout<<"\n registration not done\n";**
25.   **}**
26.   **Else**
27.   **Cout<<"\n incorrect password";**

28.   Getch();
29.   }

TESTING

Testing is a process of executing a program with intent of finding an error. A good test case is one that has a high probability of finding an as-yet undiscovered error. A successful test is one of that uncovers as-yet-undiscovered error.

The test must be designed that have the highlights likelihood of finding the most errors with minimum amount of time and efforts. Also, the methods provide the highest likelihood for uncovering errors in the software.

OBJECTIVES OF TESTINGS

- TESTING is a process of executing a program with the intent of finding an error.
- A good test case is one that has a high probability of finding an as-yet-undiscovered error.
- A successful test is one that uncovers an as-yet-undiscovered error.

WHITE BOX TESTING

White box testing , sometimes called glass box testing is the test case design method that uses the control structure of the procedural design to derive test cases. Using white box testing methods, test cases are derived such that:

- It guarantees that all independent paths within a module have been exercised at least once.
- Exercise all logical decisions on their true and false sides.
- Execute all loops at their boundaries and within their bounds.
- Exercise internal data structures to ensure their validity.

BASIS PATH TESTING

It is the white box testing technique that enables the test case designer to derive logical complexity measures of a procedural design and use this measure as a guide for defining a basis set of execution paths. Test cases statement in the program at least one time during testing.

FLOW GRAPH
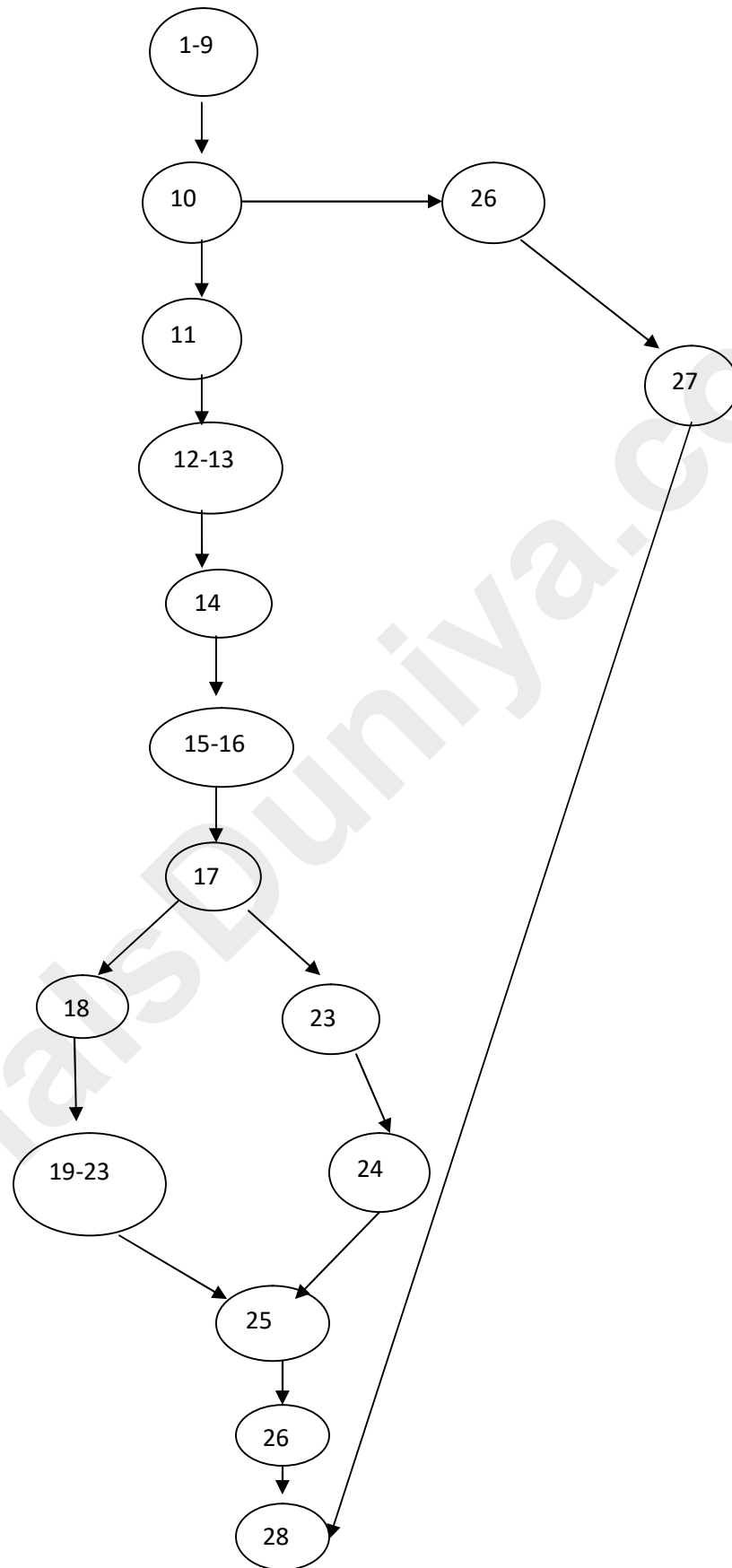
CYCLOMATIC COMPLEXITY

Cyclomatic complexity has a foundation in graph theory and is computed in one of the three ways:

1. **The number of regions corresponds to the cyclomatic complexity.**
2. **Cyclomatic complexity V(G) for a flow graph G is defined as V(G)=E-N+2**

Where E is the number of flow graph edges and N is the number of flow graph nodes.

3. **Cyclomatic complexity V(G) for a flow graph G , is also defined as V(G)=P+1**
   Where P is the number of predicate nodes contained in the flow graph G.

> V(G) = number of regions
> = 3
> V(G) = E-N+2
> = 17- 16+2
> = 3
> V(G) = P+1
> = 2+1
> = 3

Independent path : 3

- **(1-9,10,11,12-13,14,15-16,17,18,19-23,25,26,28)**

- **(1-9,10,11,12-13,14,15-16,17,23,24,25,26,28)**
- **(1-9,10,26,27,28)**

INDEPENDENT PATH TEST CASES:

❖ **(1-9,10,11,12-13,14,15-16,17,18,19-23,25,26,28)**

VALID INPUT: 1 when details are valid

OUTPUT: registration successful

❖ **(1-9,10,11,12-13,14,15-16,17,23,24,25,26,28)**

VALID INPUT: 1 when details are not valid

OUTPUT: registration not done

❖ **(1-9,10,26,27,28)**

VALID INPUT: when password not matched

OUTPUT: incorrect password()access denied.

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Sample Module Code (Login/Register/Search)

Home.html

```html
<html>

<title>Home</title>

<body bgcolor=Grey><center><h1><font color=blue>Reality Show
Management</font></h1></center>

<font color=red>

<h2>

REALITY SHOW Management System is intranet-based application that concentrates on the
arteries of commercial transactions, which is properly established between the various customers
and the SHOW  Management Team in conducting the events and maintaining associated
transactions.<br> Reality show management organization in conducting various events

</h2><hr>

<br><b><h3><marquee>-----------Auditions all over India----------</marquee></h3></b>

</font>

<br>

<center>

To view audition Schedule for your city <a href="audition.php">Click Here</a><br><p>

<font style background color : Yellow>

To Login<a href="login.php">Click Here</a><br>

New User? <a href="register.php">Click Here</a>

</font>

<marquee>
```

</marquee>

<p><p><p><p><p><p><p><hr>

For any queries, Contact

Aryan Sindwani :7982152547

Email : aryan.sindwani1998@gmail.com

</center>

</body>

</html>

Redirect to :register.php

login.php

audition.php

Register.php

<html>

<title>Registration</title>

<body bgcolor=black>

<h2>Return to Home Page</h2>

<font color=red>

<center><h2>Welcome to our Registration Portal</h2>

<hr>

<form method='post' action="" ><p><hr>

Set Username:

```
<input type='text' name='user' placeholder='Enter user name here'><p><p>

Set Password:

<input type='password' name='pass' placeholder='Enter password here'><p><p>

Enter email<input type='text' name='email' placeholder='Enter email'><p><p>

<input type='submit'>

</form>

<hr>

<?php

if(isset($_POST['user'])&&isset($_POST['pass'])&&isset($_POST['email']))

{

        $connection=mysqli_connect("localhost",'root','');

        $db=mysqli_select_db($connection,"login") or die("Could Not connect to server");

        $name=$_POST['user'];

        $password=$_POST['pass'];

        $email=$_POST['email'];

        $query1=("Select username from User where username='$name'");

        $r=mysqli_query($connection,$query1) or die("Table Not Found");

        $query=("INSERT INTO user VALUES('$name', '$password', '$email')");

        $count=mysqli_fetch_array($r);

        if($count>0)    {

                echo "Username already taken";

        }

        else     {

                if(mysqli_query($connection, $query)){

                        echo "Registration Successful";
```

```php
                }
        else    {
                        echo "ERROR: Could not able to execute . " . mysqli_error($connection);
                }
                mysqli_close($connection);
                }
        }
        ?>
</body>
</html>
```

Login.php

```html
<html>
<title>Login Page</title>
<body bgcolor=teal>
<h2><a href="home.html">Return to Home Page</a></h2>
<br>
<center>
<form method='post' action="" ><p><hr>
Username:
<input type='text' name='user' placeholder='Enter user name here'><p><p>
Password:
<input type='password' name='pass' placeholder='Enter password here'><p><p>
<input type='submit'>
```

```php
</form>

<hr>

<?php

if(isset($_POST['user'])&&isset($_POST['pass']))

{

        $connection=mysqli_connect("localhost",'root','');

        $db=mysqli_select_db($connection,"login") or die("Could Not connect to server");

        $name=$_POST['user'];

        $password=$_POST['pass'];

        $query1="Select username,PASSWORD from User where username='$name' AND
PASSWORD='$password'";

        $query2="Select adm, pass from admin where adm='$name' AND pass='$password'";

        $r=mysqli_query($connection,$query1) or die("Table Not Found");

        $ra=mysqli_query($connection,$query2) or die("Table Not Found");

        $count=mysqli_fetch_array($r);

        $count1=mysqli_fetch_array($ra);

if($count>0)

{

echo "Welcome ".ucfirst($count[0]).". You have been logged in";

}


else if($count1>0)

        {

        echo "Welcome Admin ".ucfirst($count1[0]).". You have been logged in";

        }
```

```
else

{

echo "Unauthorized user ";

}

mysqli_close($connection);

}

?>
```

</center>

</body>

</html>

Audition.php

```
<html>

<title>Audition Schedule</title>

<body bgcolor=teal>

<h2><a href="home.html">Return to Home Page</a></h2>

<br>

<center>

<form method='post' action="" ><p><hr>

Enter the your city <input type=text name=city><p>

<input type=submit>

</form>

<hr>

<?php

if(isset($_POST['city']))
```

```php
{
        $connection=mysqli_connect("localhost",'root',");

        $db=mysqli_select_db($connection,"login") or die("Could Not connect to server");

    $cit=$_POST['city'];

        $query="select Venue, Date, Time, Duration(Hours) FROM audition where
city=ucfirst('$cit')";

        $print=mysqli_query($connection,$query) or die("Table not found");

        echo"<table border='1'>";

        echo"<tr>";

        echo"<th>Venue</th>";

        echo"<th>Date</th>";

        echo"<th>Time</th>";

        echo"<th>Duration</th>";

        echo"</tr>";

        while($row=mysqli_fetch_array($print))      {

                echo"<tr>";

                echo"<td>".$row['Venue']."</td>";

                echo"<td>".$row['Date']."</td>";

                echo"<td>".$row['Time']."</td>";

                echo"<td>".$row['Duration']."</td>";

                echo"</tr>";

        }

        echo "</table>";

mysqli_close($connection);

}
```
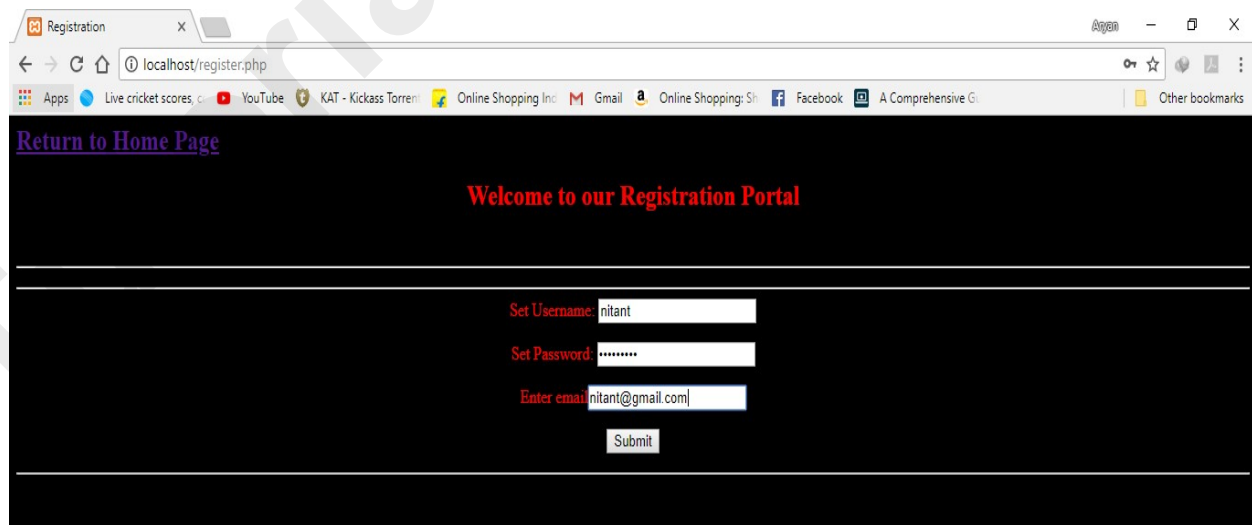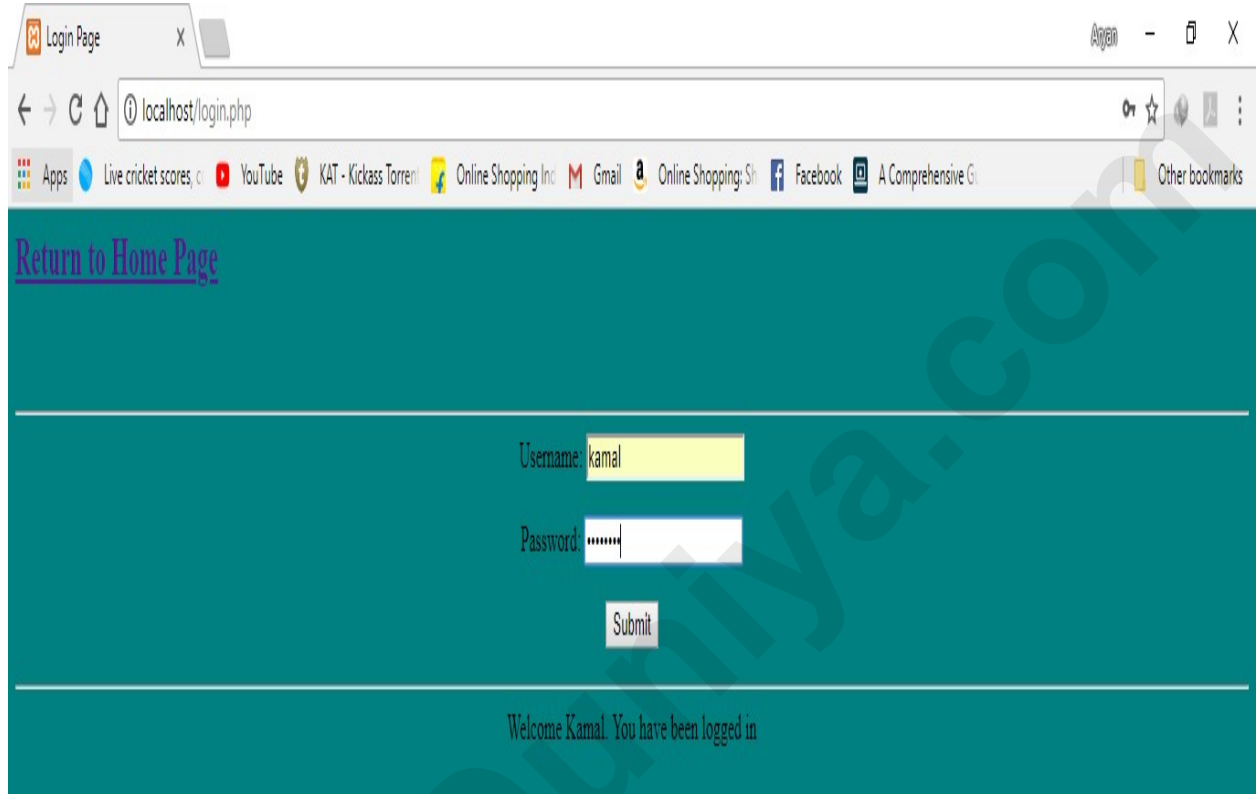
?>

</body>

</html>

echo"<td>"

echo

Screens

1.)Home.html
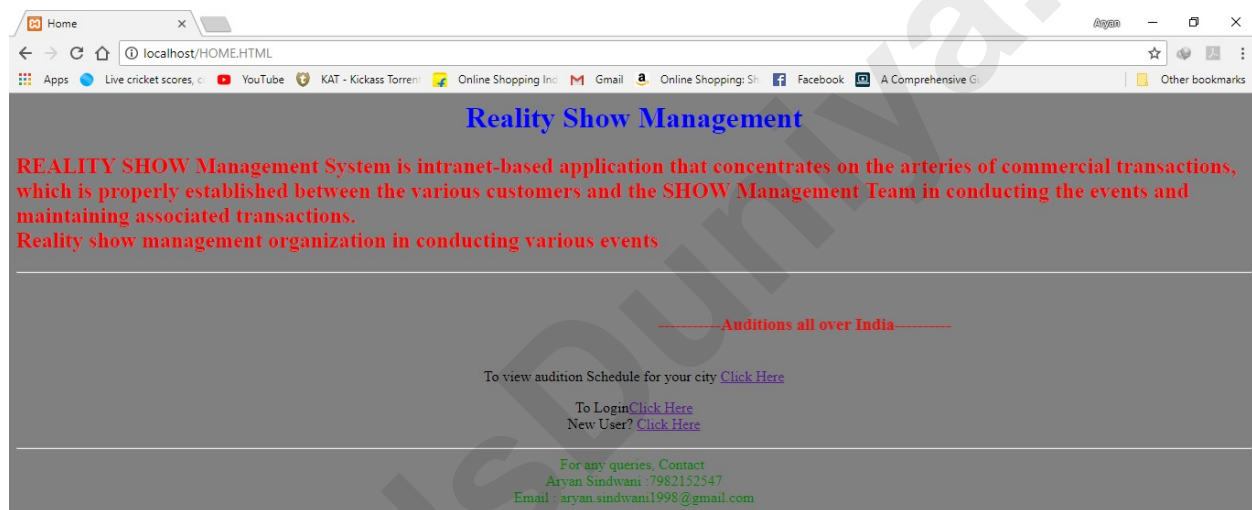
2.)Register.php

3.)login.php

REFRENCES

- **https://www.tutorialsduniya.com**
- **Software Engineering, Practitioner's Approach, R.S. Pressman, McGraw-Hill.**
- **P. Jalote, An Integrated Approach to Software Engineering, Narosa Publishing House.**
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- ➤ Cricket Management System
- ➤ E-Boutique
- ➤ Health Care
- ➤ Online Bookstore
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