

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum-590018.



WTA MINI PROJECT REPORT

ON

News portal management system

Submitted in Partial fulfilment for the VII Semester, BE, Information Science & Engineering

Submitted by:

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2020-2021

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

(Accredited by NBA for 2019-2022)

GLOBAL ACADEMY OF TECHNOLOGY

Ideal Homes, RR Nagar, Bengaluru-560098

**(Autonomous Institute under Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi,
NAAC Accredited with 'A' Grade)**

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NAAC Accredited with 'A' Grade)

Department of Information Science and Engineering

(Accredited by NBA for 2019-2022)



CERTIFICATE

Certified that the project work entitled “**News portal management system**” carried out by **B.U.Kavya and Varsha Venkatesh**, bonafide students of GLOBAL ACADEMY OF TECHNOLOGY, in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The Mini project report has been approved as it satisfies the academic requirements in respect of Web Technology Laboratory with Mini Project (17CSL77) prescribed for the said Degree.

Signature of the Guide

Lakshmi R

Asst. Prof. Dept. of ISE
GAT, Bengaluru.

Signature of the HOD

Dr. Kiran Y C

Prof. & Head, Dept. of ISE
GAT, Bengaluru.

External Viva

Name of the Examiners

Signature with date

1. _____

2. _____

DECLARATION

We the undersigned students of 7th semester, Department of Information Science and Engineering, Global academy of Technology, declare that the mini project entitled “**News portal management system**”, is a bonafide work of us and our project is neither a copy nor by any means a modification of any other engineering project.

We also declare that this mini project was not entitled for submission to any other university in the past and shall remain the only submission made and will not be submitted by us to any other university in the future.

Name	USN	Signature
B.U. Kavya	1GA17IS005
Varsha Venkatesh	1GA17IS045

ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without the mention of the people who made it possible, whose constant guidance and encouragement crowned our effort with success.

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We wish to extend our profound thanks to **Dr. Kiran Y C, Prof. and Head, Department of Information Science & Engineering, GAT**, for giving us the consent to carry out this project.

We would like to express our sincere thanks to our guide **Guide name, Assistant Professor, Department of Information Science & Engineering, GAT**, for his/her able guidance and valuable advice at every stage, which helped us in the successful completion of the project.

We would like to thank all the teaching and non-teaching staff for their valuable advice and support.

We would like to express our sincere thanks to our parents and friends for their support.

B.U.Kavya

Varsha Venkatesh

ABSTRACT

As demand approaches the capacity of a road (or of the intersections along the road), sets in extreme traffic congestion. Traffic Congestion is a condition on road that occurs when volume of traffic generates demand for space greater than the available road capacity, this point is commonly termed as saturation. The traffic demand is great enough that the interaction between vehicles slows the speed of the traffic stream, this results in congestion.

The project proposes a system which can be installed at traffic lights to detect emergency vehicles so that traffic light can be manipulated to give them free way. The project also controls traffic by measuring traffic density on either lanes of the road.

The project proposes a novel mechanism to tackle the traffic so that emergency vehicles stuck in traffic can reach their destination sooner. The fledgling project also proposes a mechanism where in density of traffic is calculated and the lane in which the highest traffic density exists will be signal-free as soon as this information is relayed to the control center.

Replace with your abstract

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CHAPTER 1

INTRODUCTION

We live in the age of Information Communication and Technology. At present information is one of the most valuable resource of the current world. People today need to be updated on daily basis in this technical world. Most of the people get the information about the world around through the internet which is fast, accessible and reliable.

Online news portal system is a web-based application introduced to meet the above requirements which allows the user to read up to date news related to fields like National, Business, Sports, Education and Sci-tech. The project is divided into two portals-

The user module- Anyone can read and search for news, they can leave comments and suggestions by providing their name. Members can also share the news and take a print out. User needs to have an account in order to leave comments.

The admin module- Admin need to have login access and can perform operations like add news articles, delete news articles and delete user comments.

The project is developed by using PHP, MySQL on the back end and HTML, CSS,for the front end.

CHAPTER 2

REQUIREMENT ANALYSIS

Requirement analysis techniques are mainly used to map the business workflow so that you can analyse, understand and make required changes to that workflow or process.

Functional requirements: It defines the fundamental actions that the system must perform. The functional requirements for the system are divided into categories like admin and user.

- Admin's id, email, password to access database operations.
- Registration of users in order to leave comments and suggestions.
- Search operation and display of news for any non-registered users.

Non-functional requirements:

- Design constraints: This is a multi-user server side and client-side website that provide various facilities.
- Reliability: The system provides the required reliability at the time of response and proper security of authentication login.
- Availability: The system will be available all the time.
- Security: All users will see the respective news without any security check. But if any user wants to comment on a specific news article, then the user has to login.
- Maintainability: This website is being developed in PHP, which is an object-oriented programming language and is easy to maintain.

Performance Requirements: It defines the acceptable response time for system functionality. The login information shall be verified within five seconds. Queries shall execute within five seconds. The load time user interface screen shall take no longer than two seconds.

CHAPTER 3

SOFTWARE REQUIREMENT SPECIFICATION

Every project has its own specifications with respect to the requirements and configurations. This may be in the form of hardware and software requirements or functional and non-functional requirements.

3.1 Hardware requirements

- Processor: Intel Core i5, Hard disk: 50 GB or more
- Operating system: Windows 7
- RAM 4GB
- Type: 64-bit operating system
- CPU clock: 1.60GHz

3.2 Software requirements

- Operating system- Windows 10 is used as the operating system as it is stable and supports more features and is more user friendly.
- Database MYSQL-MYSQL is used as database as it easy to maintain and retrieve records by simple queries which are in English language which are easy to understand and easy to write.

PHP

PHP is a server scripting language, and a powerful tool for making dynamic and interactive Web pages. PHP is a widely-used, free, and efficient alternative to competitors such as Microsoft's ASP. PHP has been widely ported and can be deployed on most web servers on almost every operating system and platform, free of charge.

HTML

Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is designed to enable the separation of presentation and content, including layout, colours, and fonts.

XAMPP

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

VISUAL STUDIO CODE

It is a free source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring and embedded git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.

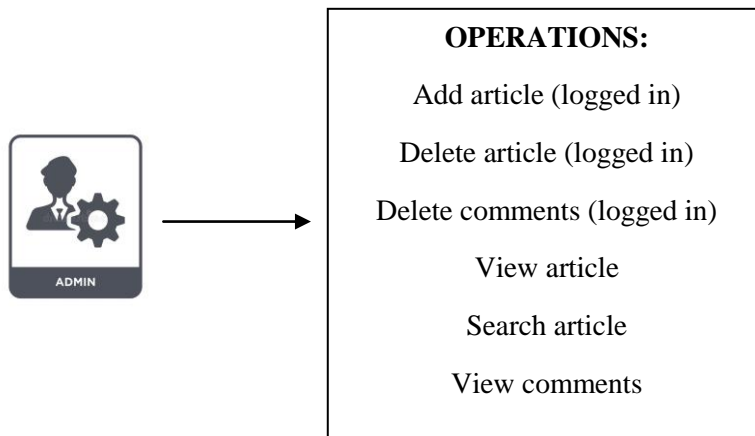
CHAPTER 4

ANALYSIS AND DESIGN

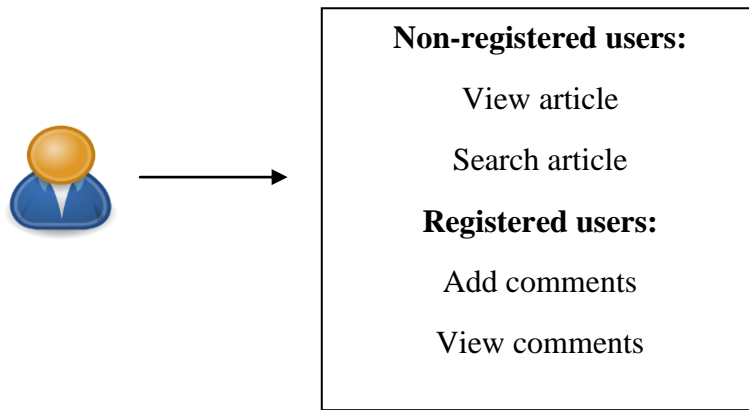
The Analysis phase is where you break down the deliverables in the high-level Project Charter into the more detailed business requirements. The Analysis phase is also the part of the project where you identify the overall direction that the project will take through the creation of the project strategy documents.

The Design phase is where you look at the many potential solutions and narrow down the choices to determine the most effective and efficient way to construct the solution. The design phase answers the questions about "how" you will build the best solution. System design can be viewed from either technical or project management perspective. From the technical point of view, design is comprised of four activities – architectural design, data structure design, interface design and procedural design.

ADMIN :



The admin can access the database operations only if he/she is registered. Operations like adding new articles, deleting articles and deleting user comments are managed by the admin. They also have user privileges like view article, search article and view comments.

USER :

Any Non registered user can view articles and search for it. To leave suggestions and comments the user must register by filling a form containing name, gender, email and password. Once the user is registered.

Sessions are created and maintained to persist state information between page requests.

CHAPTER 5

IMPLEMENTATION

Implementation is the stage in the project where the theoretical design is turned into a working system and is giving confidence on the new system for the users, which it will work efficiently and effectively.

Steps to run php program in XAMPP:

- Write programs in an editor (Visual studio code) and save it as file.php or any other name.
- After completion of the installation, you can use the XAMPP Control Panel to start/ stop all servers.
- Start MySQL and Apache servers.
- Copy file.php to htdocs (C:/Program Files/XAMPP/htdocs)
- You can also create any folders inside htdocs folder and save our codes over there. In order to get the dashboard for localhost: search <http://localhost> in any browser.
- Now to run your code, open localhost/file.php then it gets executed.

5.1 DATABASE

Create a database by providing a name('wta'). Given below are the tables under the database wta:

- Admin: The 'admin' table has 3 columns – admin_name (varchar 40), email (varchar 30), password (varchar 25).
- Users: The 'user' table has 4 columns- name (varchar 50), gender (varchar 7), email (varchar 30), password (varchar 25).
- Business: the 'business' table has 17 columns- id(int 5 ,primary key, auto_increment), headlines (varchar 500), content(varchar 5000), author (varchar 50), date(date), posttime (time), img (longblob), comment1

(varchar 100), comment2 (varchar 100), comment3 (varchar 100), comment4 (varchar 100), comment5 (varchar 100), comment6 (varchar 100), comment7 (varchar 100), comment8 (varchar 100), comment9 (varchar 100) comment10(vvarchar 100).

- National: the 'national' table has 17 columns- id(int 5 ,primary key, auto_increment), headlines (varchar 500), content(vvarchar 5000), author (varchar 50), date(date), posttime (time), img (longblob), comment1 (varchar 100), comment2 (varchar 100), comment3 (varchar 100), comment4 (varchar 100), comment5 (varchar 100), comment6 (varchar 100), comment7 (varchar 100), comment8 (varchar 100), comment9 (varchar 100) comment10(vvarchar 100).
- Sports: the 'sports' table has 17 columns- id(int 5 ,primary key, auto_increment), headlines (varchar 500), content(vvarchar 5000), author (varchar 50), date(date), posttime (time), img (longblob), comment1 (varchar 100), comment2 (varchar 100), comment3 (varchar 100), comment4 (varchar 100), comment5 (varchar 100), comment6 (varchar 100), comment7 (varchar 100), comment8 (varchar 100), comment9 (varchar 100) comment10(vvarchar 100).
- Educational: the 'educational' table has 17 columns- id(int 5 ,primary key, auto_increment), headlines (varchar 500), content(vvarchar 5000), author (varchar 50), date(date), posttime (time), img (longblob), comment1 (varchar 100), comment2 (varchar 100), comment3 (varchar 100), comment4 (varchar 100), comment5 (varchar 100), comment6 (varchar 100), comment7 (varchar 100), comment8 (varchar 100), comment9 (varchar 100) comment10(vvarchar 100).
- Sci-tech: the 'scitech' table has 17 columns- id(int 5 ,primary key, auto_increment), headlines (varchar 500), content(vvarchar 5000), author (varchar 50), date(date), posttime (time), img (longblob), comment1 (varchar 100), comment2 (varchar 100), comment3 (varchar 100), comment4 (varchar 100), comment5 (varchar 100), comment6 (varchar 100), comment7 (varchar 100), comment8 (varchar 100), comment9 (varchar 100) comment10(vvarchar 100).

100), comment7 (varchar 100), comment8 (varchar 100), comment9
(varchar 100) comment10(vvarchar 100).

5.2 CODES

Adminserver.php

```
<?php
```

```
$con = mysqli_connect("localhost","root","","wta");
```

```
// Check connection
```

```
if (mysqli_connect_errno())
```

```
{
```

```
echo "Failed to connect to MySQL: " . mysqli_connect_error();
```

```
}
```

```
if($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    // username and password sent from form
```

```
    $pass = mysqli_real_escape_string($con,$_POST['password']);
```

```
    $email = mysqli_real_escape_string($con,$_POST['email']);
```

```
    $sql = "SELECT admin_name FROM admin WHERE email = '$email' and  
password = '$pass'";
```

```
    $result = mysqli_query($con,$sql);
```

```
    $row = mysqli_fetch_array($result);
```

```
    $user = $row['admin_name'];
```

```
$count = mysqli_num_rows($result);

session_start();

// If result matched $myusername and $mypassword, table row must be 1 row

if($count == 1) {

    $_SESSION['username'] = $user;

    $_SESSION['admin']=1;

    header("location: front.php");

}else {

    echo "<center><h3 style='color:red';>Your Login Name or Password is
invalid</h3></center>";

}

}

?>
```

Ulogin.php

```
<?php

session_start();

$con = mysqli_connect("localhost","root","","wta");

// Check connection

if (mysqli_connect_errno())

{

    echo "Failed to connect to MySQL: " . mysqli_connect_error();

}
```

```
}
```

```
if($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    // username and password sent from form
```

```
    $pass = mysqli_real_escape_string($con,$_POST['password']);
```

```
    $email = mysqli_real_escape_string($con,$_POST['email']);
```

```
    $sql = "SELECT name FROM users WHERE email = '$email' and password = '$pass'";
```

```
    $result = mysqli_query($con,$sql);
```

```
    $row = mysqli_fetch_array($result);
```

```
    $user = $row['name'];
```

```
    $count = mysqli_num_rows($result);
```

```
    // If result matched $myusername and $mypassword, table row must be 1 row
```

```
    if($count == 1) {
```

```
        $_SESSION['username'] = $user;
```

```
        header("location: front.php");
```

```
    }else {
```

```
        ?>
```

```
<?php
```

```
        echo "<center><h3 style='color:red';>Your Login Name or Password is
invalid</h3></center>";
```

```
    }
```

```
}
```

```
?>
```

Delete.php

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
    <meta charset="UTF-8">
```

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
    <link rel="stylesheet" href="node_modules/font-awesome/css/font-
awesome.min.css">
```

```
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-
awesome/4.7.0/css/font-awesome.min.css" integrity="sha384-
wvfXpqpZZVQGK6TAh5PVlGOfQNHSoD2xbE+QkPxCAFINEEvoEH3Sl0sibVcO
QVnN" crossorigin="anonymous">
```

```
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css"
integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2"
crossorigin="anonymous">
```

```
<link rel="stylesheet" href="ContentDisplaystyle.css">

</head>

<style>

body{

    background-
image:url("https://www.desktopbackground.org/download/1920x1080/2010/12/16/12
7022_light-grey-backgrounds-hd_2560x1600_h.jpg");

    background-repeat:no-repeat;

    background-size:41cm 25cm;

}

h2{

margin-top:4.5cm;

font-size:50px;

color:black;

text-align:center;

}

h3{

    color:black;

    text-align:center;

}

#heading{

background-color:black;

padding:20px 20px 20px 20px;

color: white;
```

```
font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;

font-style: oblique;

letter-spacing: 1.5px;

word-spacing: 4px;

text-align: center;

}

</style>
```

```
<?php

if (isset($_POST['searchcategory'])) {

    $search_category = $_POST['searchcategory'];

    if ($search_category == "National"){

        $search_category = "news";

    }

}
```

```
if (isset($_POST['inputheadlines'])) {

    $search_headline = $_POST['inputheadlines'];

}
```

```
$servername = "localhost";

$username = "root";

$password = "";

$db = "wta";
```

```
// Create connection

$conn = mysqli_connect($servername, $username, $password,$db);


// Check connection

if (!$conn) {

    die("Connection failed: " . mysqli_connect_error());

}

//echo "Connected successfully";


$asc_query  =  "DELETE  FROM  ".$search_category."  where  headlines
='".$search_headline.'";

//echo $asc_query;

$result = mysqli_query($conn, $asc_query);

?>


<body id="main">

<title>Deletion successfully</title>

<a href="front.php" ><h1 id="heading">THE INDEPENDENT
GAZETTE</h1></a>

    <h2>Article deleted successfully!!</h2>

<a href="searchDel.php"><h3 class="mt-5">delete another record</h3></a>

</div>

</div>
```

Javascript :**Userregister.php**

```
<script>
```

```
var help=["enter your name in the format 'fname lname':\n xxx yyy ",
```

```
    "your email address must have the form:user@abc.com",
```

```
    "your password must have atleast six characters and it must include one  
digit"]
```

```
function messages(adviceNumber){
```

```
    document.getElementById("advicebox").value = help[adviceNumber];
```

```
}
```

```
</script>
```


CHAPTER 6

TESTING

This chapter gives the outline of the testing methods that are carried out to get a bug free system. Quality can be achieved by testing the product using different techniques at different phases of the project development. The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components sub-assemblies and/or a finished product. It is the process of exercising software with the intent of ensuring that the Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of test. Each test type addresses a specific testing requirement.

6.1 TESTING PROCESS

Testing is an integral part of software development. Testing process certifies whether the product that is developed compiles with the standards that it was designed to. Testing process involves building of test cases against which the product has to be tested.

6.2 TESTING OBJECTIVES

The main objectives of testing process are as follows.

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

A successful test is one that uncovers the undiscovered error.

Table 6.3: Test cases

S.NO	CASE	INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT
1	User Registration	Blank Field	Please fill out this field	Please fill out this field
2	User Registration	Username and password	User successfully added	User successfully added
3	User Registration	Wrong email type	Please include an '@' in the email address.	Please include an '@' in the email address.
3	User Login	Non-existing username or password	Your login name and password is invalid.	Your login name and password is invalid.
4	User Login	Existing username and password	User validated.	User validated.
5	User Login	Wrong username and password	Criteria doesn't match	Criteria doesn't match
6	Admin login	Blank	Necessary fields required	Necessary fields required
7	Admin login	Required details in the form	Admin controls are provided	Admin controls are provided
8	Comments	Logged in user	Allow to write comments	Allow to write comments
9	Comments	Non-registered user	Comments are disabled	Comments are disabled

CHAPTER 7

RESULTS

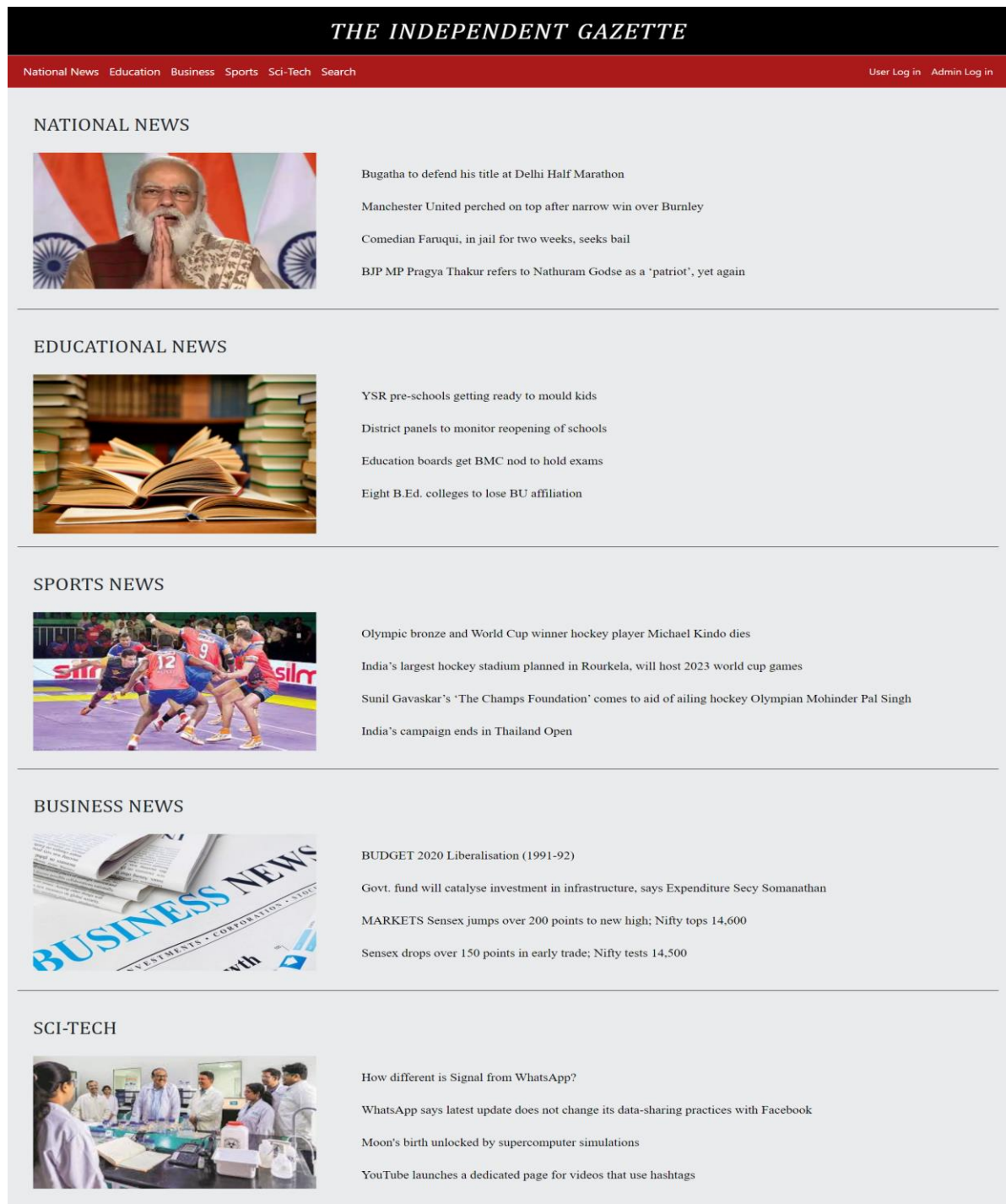



Figure 7.1 Home page

THE INDEPENDENT GAZETTE


National News Education Business Sports Sci-Tech SearchUser Log inAdmin Log in







Moon's birth unlocked by supercomputer simulations



Abhishek
Chatterjee

Friday, 15th of January 2021
Posted at: 00:38 IST



SHARE:      

Collision with a non-spinning version of Theia, resulted in a satellite with around 80% of the mass of the Moon
(Subscribe to our Today's Cache newsletter for a quick snapshot of top 5 tech stories. Click here to subscribe for free.)

Researchers at Durham University developed supercomputer simulations that shows how ancient collision may have led to the formation of the Moon.

According to most astronomers, Earth's collision with a Mars-sized planet called Theia, around 4.5 billion years ago, formed the Moon. The velocity of Theia, its angle of impact and rotational rate has affected the collision.

Astronomers tested a wide range of possible conditions, ranging from no spin to a quick rotation.

Collision with a non-spinning version of Theia, resulted in a satellite with around 80% of the mass of the Moon. Adding just a small amount of spin resulted in a second Moon on orbit around Earth.

"Among the resulting debris disc in some impacts, we find a self-gravitating clump of material. It is roughly the mass of the Moon, contains ~1 percent iron like the Moon," researchers explained in an article in the Monthly Notices of the Royal Astronomical Society.

The researchers postulate that as the proto-Moon settled on the orbit around the Earth, it grew by collecting debris from the surrounding space. This body was seen developing a small iron core, surrounded by material from both Theia and the early Earth, similar to what we see on the Moon.

They suggest that the Moon was much closer to the Earth than it is today but gravitational forces between the Earth and the Moon resulted in the Moon moving further away.

Comments

Login to leave a comment

PreviousNext

Figure 7.2 News article page

THE INDEPENDENT GAZETTE

National News Education Business Sports Sci-Tech Search User Log inAdmin Log in

User login

E-mail :
varshavenkatesh99@gmail.com

Password :

Submit

new user? click here to register

Figure 7.3 User login page

THE INDEPENDENT GAZETTE

National News Education Business Sports Sci-Tech Search User Log inAdmin Log in

User Register

Name :
[text input]

Gender :
Male

Email :
[text input]

Password :
[text input]

your password must have atleast six characters and it must include one digit

Submit Reset

Figure 7.4 User registration and validation page

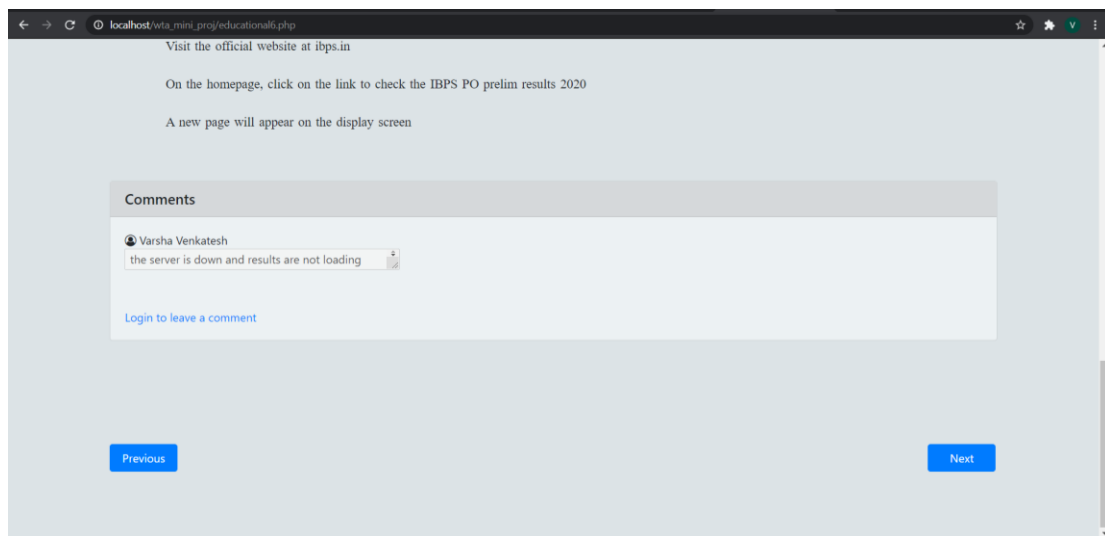


Figure 7.5 Comment validation-1

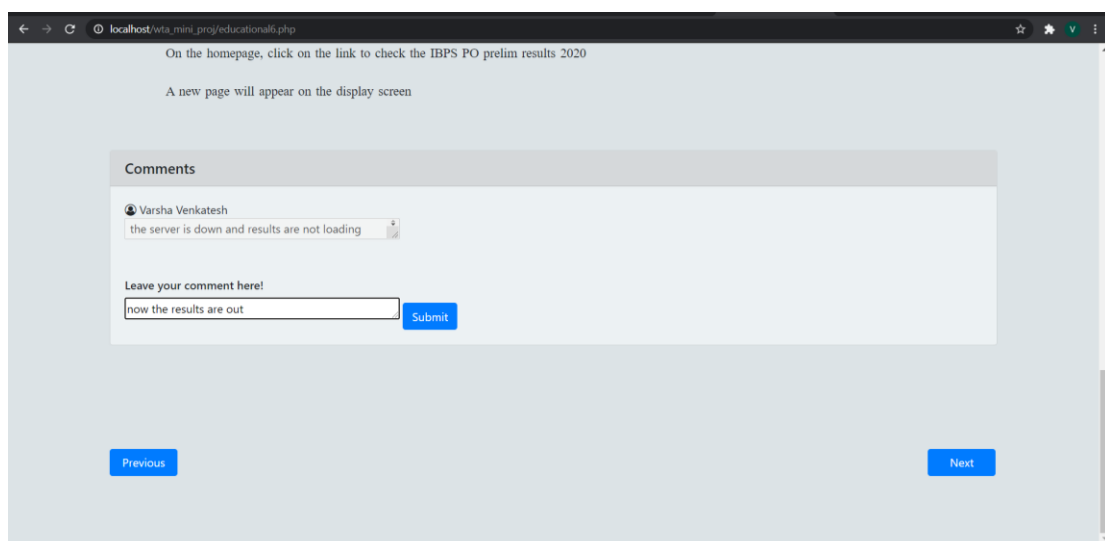


Figure 7.6 Comment validation-2

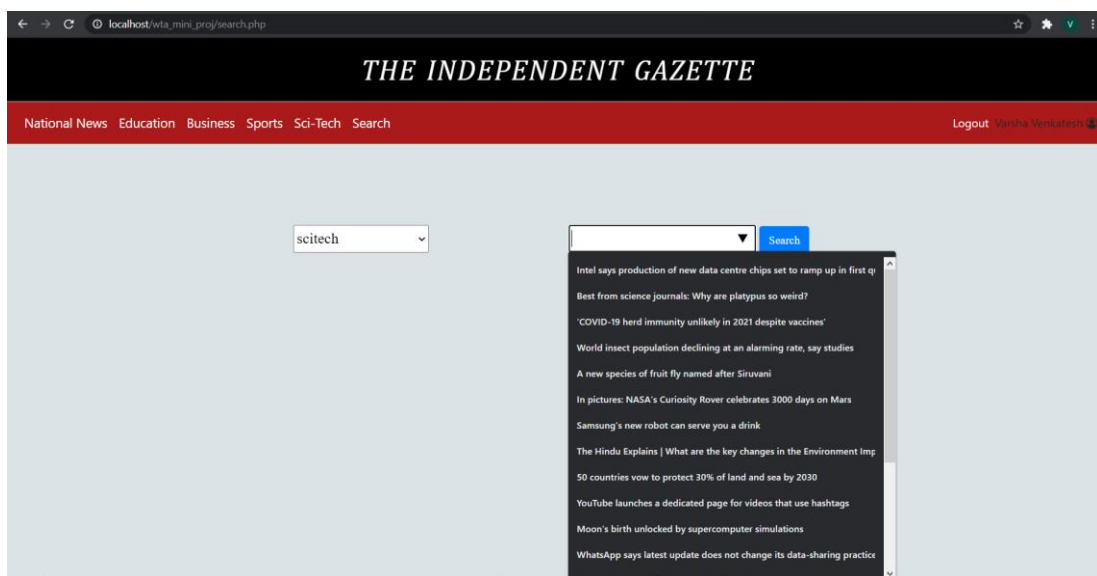


Figure 7.7 Search Operation

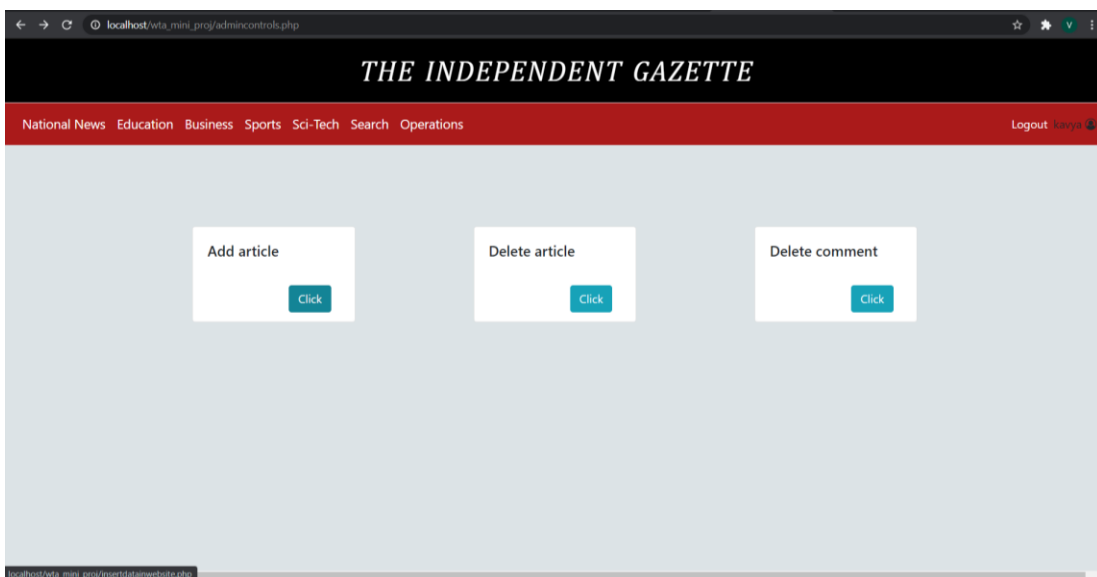


Figure 7.8 Admin controls

Inserting into DBMS

DOMAIN:

National

Headline

Washington Sundar set to make his Test debut against Australia

Content

Washington Sundar is all set to make his Test debut when the series decider gets underway at the 'Gabba', Brisbane on Friday.

Both teams are locked 1-1 in what has been a dramatic series of fortune swings so far. India, though, has been hit by a spate of injuries.

R. Ashwin, during his heroic match-saving knock in Sydney, grappled with a sore back which makes him a doubtful starter in what is a back-to-back Test at the 'Gabba'.

And then, the in-form Ravindra Jadeja is already out of the Test with a dislocated finger.

A success story in Twenty20 cricket for India so far, the lanky Washington has a fair record in first class cricket with 532 runs and 30 wickets in 12 matches.

His highest score of 159 came at the top of the order for Tamil Nadu and he is used to bowling long spells for Tamil Nadu with his off-spin in the absence of R. Ashwin.

The 21-year-old Washington stayed back with the Indian team as a net bowler in Australia following the limited over series.

His work ethics, ability, and a spate of injuries in the Indian camp has opened the path for him in Test cricket.

Authour

REUTERS

Date

17-01-2021

Post Time

00:42

Choose File

Figure 7.4 Insert data into website (admin side)

CHAPTER 7

CONCLUSION

THE INDEPENDENT GAZETTE is a web application with the main objective to provide all types of instant and important news related to fields like education, business, sports, national and sci-tech. All the contents stored in the database and are divided into categories, which can be easily modified to browse and contains a self-organized interface to promote top-stories. The portal enables the user to read news and share their views on it. On the other hand, the admin can post or delete a comment. This system more user friendly, GUI oriented and scalable in terms of future enhancement.

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