

# **WORLD UNIVERSITY RANKINGS**

**A PROJECT REPORT**

*Submitted for*

**CSE3009 – NoSQL Databases**

*by*

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## ABSTRACT

This project is all about rankings of universities which are located across different parts of the world. One can enter the ranking of the particular university through this website. So, this will be helpful for those students who are interested in pursuing their higher education in that particular university. This supports CRUD operations as well. So, basically one can insert, update, delete or find a particular university details. These rankings are based on various parameters like quality of education, alumni employment, quality of faculty, no. of citations, no. of publications and many more. Basically these are the various fields that are available in MongoDB. Currently it is having 1000 documents i.e. rankings of various universities year wise. One can easily view details of a particular university. So, this will be mainly helpful for the student to have a glance at a particular university.

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# CHAPTER 1

## INTRODUCTION

University rankings are rankings of institutions in higher education which have been ranked on the basis of various combinations of various factors like quality of education, alumni employment, quality of faculty, no. of citations, no. of publications and many more. Many of the students research a lot about the university which they are interested in. The first thing anyone will consider is the QS World ranking of the university. It is the most important parameter for considering a university. This website will be helpful for those who are searching for universities.

### 1.1 Objectives

The following are the objectives of this project:

- Creating an interface for those who need details of various universities across the world and also one can insert the details of a university by filling out various parameters.
- It allows users to sort out universities easily.
- As rankings change every year one can update the documents efficiently.

### 1.2 Background and Literature Survey

We have researched a lot to sort out parameters from wide range. Finally we came up with the a couple of parameters which are the most important ones considered by most of the students. This interface is very helpful in such a way that students can have an idea of different universities at a glance.

### **1.3 Organization of the Report**

The remaining chapters of the project report are described as follows:

- Chapter 2 contains activity diagram and working methodology.
- Chapter 3 gives the cost involved in the implementation of the project.
- Chapter 4 discusses the results obtained after the project was implemented.
- Chapter 5 concludes the report.
- Chapter 6 consists of codes.
- Chapter 7 gives references.

## CHAPTER 2

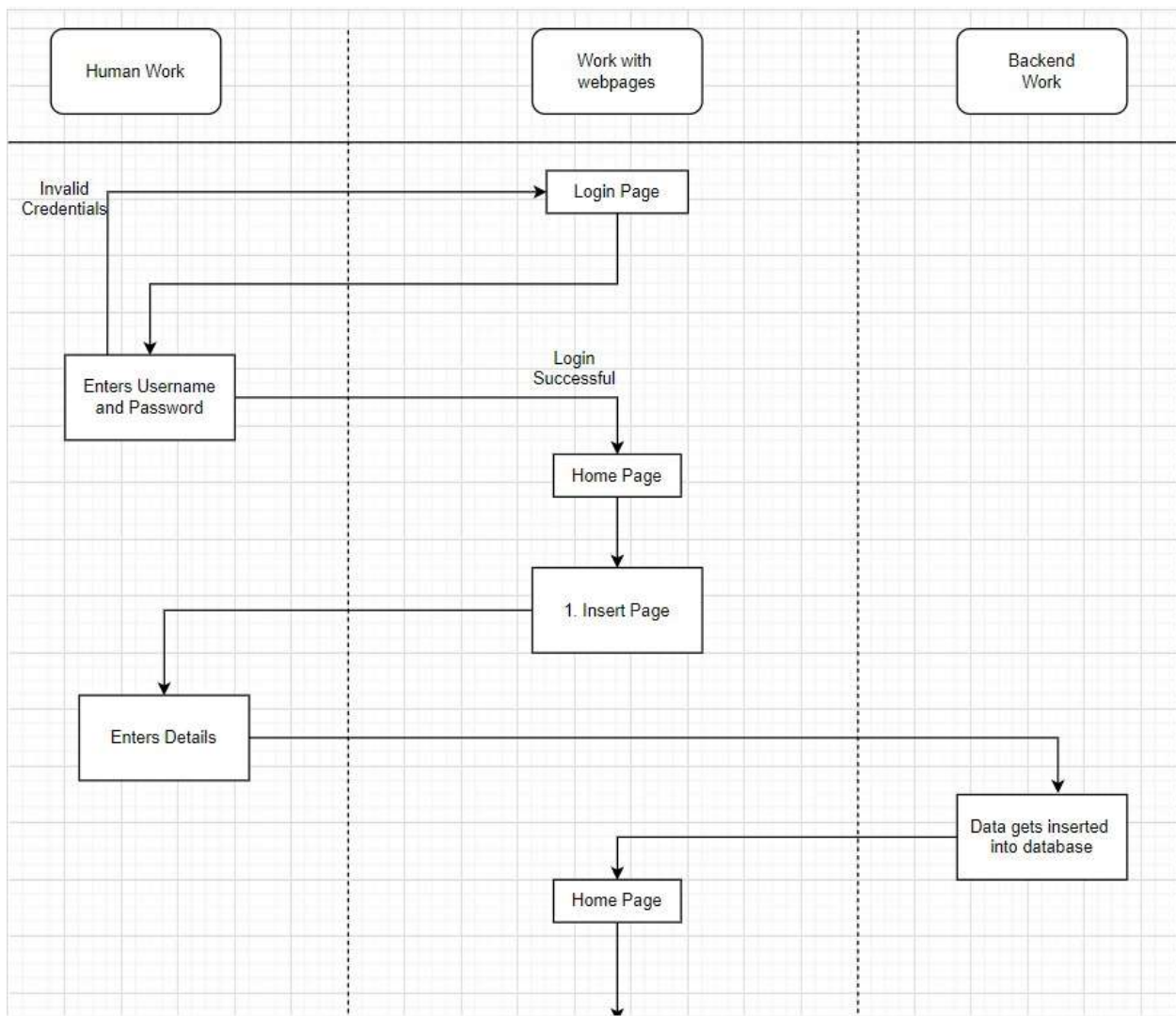
### FUNCTIONING OF THE WEBSITE

This Chapter describes the proposed system, working methodology.

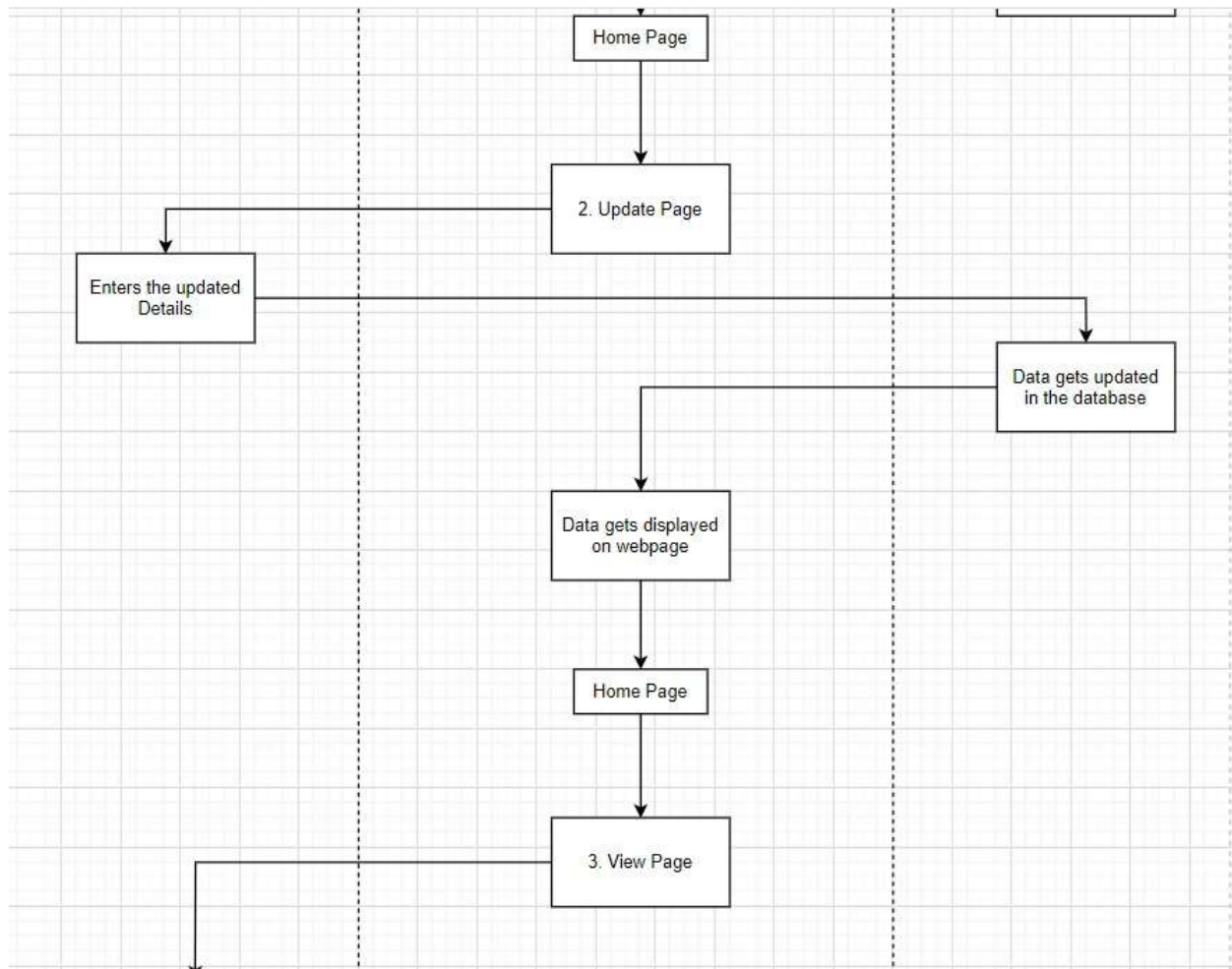
#### 2.1 Activity Diagram

The following block diagram shows the system architecture of this project.

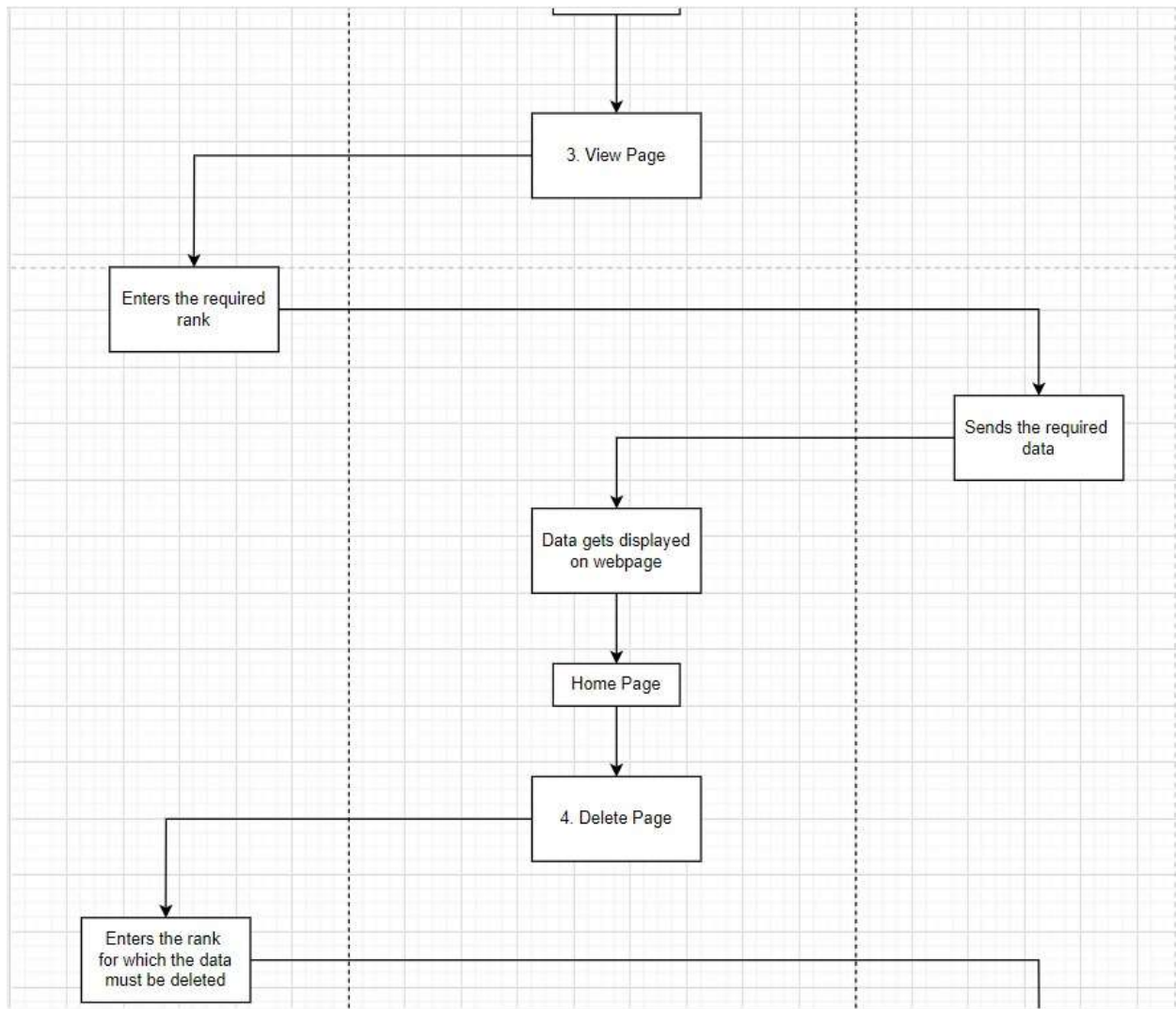
**Activity Diagram:**



Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

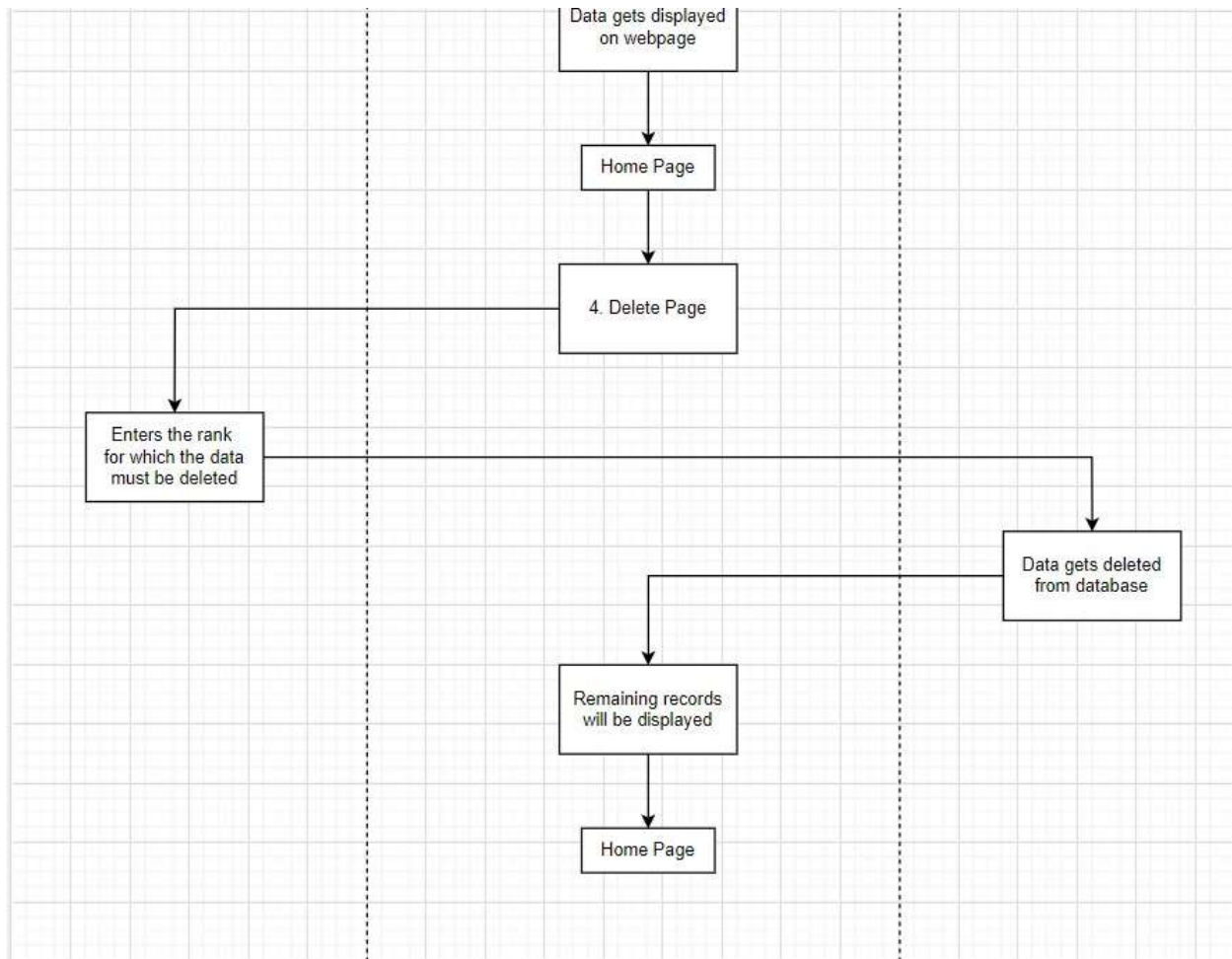


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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

## 2.2 Working Methodology

In this website there are mainly four components : Insert a ranking,update a ranking,view all the rankings,find the details of a particular university,and can update the document as well.Based on the option selected by user the website navigates the user to a that html page .In that page user can perform the operation on the dataset and can obtain the result within no time in the website itself.Php is used for server side coding.Php connects the front end to the backend i.e NOSQL database(MongoDB).As there are huge no.of universities across the world for faster query processing we have used MongoDB as the database.In this there is a collection and 14 fields and approximately 1000 documents are there.For styling the website css and bootstrap is being used.

Coming to the execution part if we are inserting a document then it will be navigated to a HTML form where we will fill all the essential parameters.With the help of php the data entered by user will be sent to collection that is being created in MongoDB and will be inserted as a new document in the MongoDB.Similarly if we want to update a particular document we can access it by the university name. Similary remaining operations like find,delete will work in a similar manner.With the help of the view button we can view all the documents that are available in DB in the website itself.And all the documents will be separated by double dashed line.

## CHAPTER 3

### DATABASE ANALYSIS

#### 3.1 Datasets and attributes

This dataset is all about world university rankings.

Database :NOSQL

Collection :Project

Documents :1000

Fields :14

Php is used for server side coding.All the data entered by the user will be stored as a document in MongoDB using php.It establishes a connection between frontend and database.

## **CHAPTER 4**

### **RESULTS AND DISCUSSIONS**

From this website we can have an idea of the universities across the world in terms of various parameters and CRUD operations can be performed efficiently. As the backend used is a NO SQL database which results in faster query processing and huge data can be stored and can be retrieved easily.

## **CHAPTER 5**

### **CONCLUSION AND FUTURE WORK**

So,finally we conclude that this website is helpful for having a glance at universities based on ranking etc.And also one can insert a document by filling all the essential parameters and perform reaming CRUD operations as well.

In the next stage we are planning to create a login/signup page separately for those who read and write the data.And lot more features will be added in the next development phase.

## CHAPTER 6

### CODES

#### 1. Home.html

```
<html>
  <head> <title>University Details</title>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous" />
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKAIZap3H66lZ81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>
    <style>
      .main-cont {
        background-image: url('central.jpeg');
        background-size: cover;
        padding: 10px;
      }
      .cont {
        background-color: transparent;
        height: 100vh;
      }
      .maincont {
        background-color: transparent;
        height: 100vh;
        width: 100%;
      }
      .input-box {
        width: 100%;
        height: 50px;
        background-color: rgb(105, 105, 105);
        border-radius: 25px;
        border-style: solid;
        border-width: 0px;
```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

        color: white;
    }
    .abcd{
        background-color: white;
        border-radius: 5%;
        margin-top: 400px;
    }
    .hr2{
        width: 100%;
        background-color: black;
    }
</style>
</head>
<body>
    <div class="main-cont">
        <nav class="navbar navbar-light bg-dark ">
            <span class="navbar-brand mb-0 h1 text-white ml-auto mr-auto">Welcome to
University Details</span>
        </nav>
        <div class="container">
            <div class="row d-flex flex-row justify-content-center">
                <div class="cont col-md-6 p-0">
                    <div class="maincont p-5 d-flex flex-column justify-content-center"
id="mcont">
                        <div id="uservote" class="d-flex flex-column justify-content-center text-
center abcd p-3">
                            <button class="input-box mb-2"><a class="text-white"
href="find.php">See all Documents</a></button>

                            <button class="input-box"><a class="text-
white"href="analysis3.php">Analysis</a></button>
                            <hr class="hr2"/>
                            <button class="input-box"><a class="text-
white"href="Login.php">Login</a></button>

                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</body>
</html>

```

## 2. Find.php:

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

<html><head> <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous" />
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKAizap3H66lZ81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>
<style>
a{
    text-align: center;
    color: black;
    text-decoration: none;
}
.c3{
    text-align: right;
}
body{
    background-color: lightblue;
    margin-left:10px;
}
.button3 {
background-color:#14a76c ;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}
.button3:hover {opacity: 1}
.button1 {
    background-color: #00fffb;

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.



```

border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}
.button1:hover {opacity: 1}
</style>
</head>
<body>
<nav class="navbar navbar-light bg-dark ">
<span class="navbar-brand mb-0 h1 text-white ml-auto mr-auto"> <h2>VIEW ALL
DOCUMENTS</h2> </span>
<div class="c3"><button class=" button1"><a href="Home.html">Go
Back</a></button></div>
</nav><br>
<div class="abb">
<form action="" method="post">
<button type="submit" class="button button3">Enter</button>
</form>
<button class="button3"><a href="find2.php" >Find based on Specific
Selection</a></button>
</div>
</body>
</html>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST"){
require_once __DIR__ .'/vendor/autoload.php';
$con=new MongoDB\Client("mongodb://localhost:27017");
$db= $con->NoSql;
$tbl=$db->project;
$cursor = $tbl->find();
// iterate cursor to display title of documents
$record= $tbl->count($cursor);
echo "<hr>";
echo "<h3>$record records found!!</h3>";
foreach ($cursor as $document) {
echo "<hr><b>Name of Institution:</b>".$document["institution"] . ".<br><b>World
Rank:</b> ". $document["world_rank"] . ".<br><b>Country:</b> ".
$document["country"] . ".<br><b>National Rank:</b> ".$document["national_rank"].

```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

".<br><b>Quality of Education Rank:</b> ".$document["quality_of_education"].
".<br><b>Alumni Employment Rank:</b> ".$document["alumni_employment"].
".<br><b>Quality of faculty rank:</b> ".$document["quality_of_faculty"] .
".<br><b>Publications Rank:</b> ".$document["publications"]. ".<br><b>Rank for
Influence:</b> ".$document["influence"]. ".<br><b>Rank for Citations:</b>
".$document["citations"]. ".<br><b>Rank for Broad Impact:</b>
".$document["broad_impact"]. ".<br><b>Rank for Patents:</b> ".$document["patents"].
".<br><b>Total Score:</b> ".$document["score"]. ".<br><b>Year:</b>
".$document["year"]."<hr>";
    }
  }
?>

```

### 3. Find2.php:

```

<html>
  <head>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous" />
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKAIZap3H66lZ81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>
  <STYLE>
    h1{
      text-align: center;
      background-color: orange;
    }
    body{
      background-color: lightblue;
      background-size: 100% 100%;
    }
    .c3{
      text-align: right;
    }
    a{
      text-align: center;

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

        color: black;
        text-decoration: none;
    }
    .button3 {
background-color:#14a76c ;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
    }
.button3:hover {opacity: 1}
.button1 {
background-color: #00fffb;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
    }
.button1:hover {opacity: 1}
</STYle>
</head>
<body>
<nav class="navbar navbar-light bg-dark ">
    <span class="navbar-brand mb-0 h1 text-white ml-auto mr-auto"> <h2>VIEW
DOCUMENTS W.R.T A VALUE</h2> </span>
    <div class="c3"><button class=" button1"><a href="find.php">Go
Back</a></button></div>
<div class="cd">
    <button class=" button1"><a href="Home.html">Home</a></button>
</div>
</nav><br>
<h4>SELECT AN INTEGER FIELD AND ITS RESPECTIVE VALUE</h4>

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

</div>
<form action="" method="post">
  <input list="browsers" id="list" name="list" placeholder="select an item">
<datalist id="browsers">
<option value="world_rank">
<option value="national_rank">
<option value="quality_of_education">
<option value="alumni_employment">
  <option value="quality_of_faculty"></option>
  <option value="alumni_employment"></option>
  <option value="publications"></option>
  <option value="alumni_employment"></option>
  <option value="influence"> </option>
  <option value="citations"> </option>
  <option value="broad_impact"> </option>
  <option value="patents"> </option>
  <option value="score"> </option>
  <option value="year"> </option>
</datalist>
<br><br>
  <input type="text" name="n" id="n" placeholder="Enter n value">
  <br><br>
  <button type="submit" class=" button3">Enter</button>
</form>
  <h5>Press the following button if you want to search a field w.r.t a string</h3>
  <button class=" button3"><a href="find6.php">Go</a></button>
  <br>
</body>
</html>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST"){
require_once __DIR__ .'/vendor/autoload.php';
$con=new MongoDB\Client("mongodb://localhost:27017");
$db= $con->NoSql;
$tbl=$db->project;
$ab=$_POST['list'];
$n=(int)$_POST['n'];
$cursor = $tbl->find([$ab => $n]);
// iterate cursor to display title of documents
$record= $tbl->count([$ab => $n]);
echo "<hr>";
echo "<h3>$record records found!!</h3>";
foreach ($cursor as $document) {

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

        echo "<hr><b>Name of Institution:</b>".$document["institution"] . "<br><b>World
Rank:</b> " . $document["world_rank"] . "<br><b>Country:</b> " .
$document["country"] . "<br><b>National Rank:</b> " . $document["national_rank"].
"<br><b>Quality of Education Rank:</b> " . $document["quality_of_education"].
"<br><b>Alumni Employment Rank:</b> " . $document["alumni_employment"].
"<br><b>Quality of faculty rank:</b> " . $document["quality_of_faculty"] .
"<br><b>Publications Rank:</b> " . $document["publications"]. "<br><b>Rank for
Influence:</b> " . $document["influence"]. "<br><b>Rank for Citations:</b>
".$document["citations"]. "<br><b>Rank for Broad Impact:</b>
".$document["broad_impact"]. "<br><b>Rank for Patents:</b> " . $document["patents"].
"<br><b>Total Score:</b> " . $document["score"]. "<br><b>Year:</b>
".$document["year"]."<hr>";
    }
}
?>

```

#### 4. Find6.php:

```

<html>
<head>
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous" />
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKA1Zap3H66lZ81PoYIFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>

<STYle>
h1{
    text-align: center;
    background-color: orange;
}
body{
    background-color: lightblue;
    background-size: 100% 100%;
}
.c3{
    text-align: right;

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

    }
    a{
        text-align: center;
        color: black;
        text-decoration: none;
    }

    .button3 {
background-color:#14a76c ;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}
.button3:hover {opacity: 1}

```

```

.button1 {
background-color: #00fffb;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}

```

```

.button1:hover {opacity: 1}

```

```

</STYle>
</head>
<body>
<nav class="navbar navbar-light bg-dark ">

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```
<span class="navbar-brand mb-0 h1 text-white ml-auto mr-auto"> <h2>SELECT A FIELD  
AND ENTER SEARCH WITH STRING</h2> </span>
```

```
<div class="c3"><button class=" button1"><a href="find2.php">Go Back</a></button></div>  
<div class="cd">  
    <button class=" button1"><a href="Home.html">Home</a></button>  
</div>  
</nav><br>  
<h5>SELECT A FIELD AND ITS RESPECTIVE VALUE</h1>
```

```
<form action="" method="post">
```

```
<input list="browsersN" id="list" name="list" placeholder="select an item">
```

```
<datalist id="browsersN">  
<option value="institution">  
<option value="country">  
</datalist>
```

```
<br><br>  
    <input type="text" name="n" id="n" placeholder="Enter n value">  
    <br><br>  
    <button type="submit" class=" button3">Enter</button>  
    </form>  
    <br>  
</body>  
</html>
```

```
<?php
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST"){  
    require_once __DIR__ .'/vendor/autoload.php';  
    $con=new MongoDB\Client("mongodb://localhost:27017");  
    $db= $con->NoSql;  
    $tbl=$db->project;  
    $ab=$_POST['list'];  
    $n=$_POST['n'];
```

```
$cursor = $tbl->find([$ab => $n]);  
    // iterate cursor to display title of documents  
    $record= $tbl->count([$ab => $n]);  
    echo "<hr>";  
    echo "<h3>$record records found!!</h3>";
```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

foreach ($cursor as $document) {
    echo "<hr><b>Name of Institution:</b>". $document["institution"] . ".<br><b>World
Rank:</b> ". $document["world_rank"] . ".<br><b>Country:</b> ". $document["country"]
."<br><b>National Rank:</b> ". $document["national_rank"]. ".<br><b>Quality of Education
Rank:</b> ". $document["quality_of_education"]. ".<br><b>Alumni Employment Rank:</b>
". $document["alumni_employment"]. ".<br><b>Quality of faculty rank:</b>
". $document["quality_of_faculty"] . ".<br><b>Publications Rank:</b>
". $document["publications"]. ".<br><b>Rank for Influence:</b> ". $document["influence"].
."<br><b>Rank for Citations:</b> ". $document["citations"]. ".<br><b>Rank for Broad
Impact:</b> ". $document["broad_impact"]. ".<br><b>Rank for Patents:</b>
". $document["patents"]. ".<br><b>Total Score:</b> ". $document["score"].
."<br><b>Year:</b> ". $document["year"]. "<hr>";

}
try{
    $abb=count(iterator_to_array($cursor));
    if($abb==0){
        echo "No records found...enter a new value in the textbox to obtain new result";
    }
}
catch(Exception $e) {
    echo " ";
}
}
?>

```

### 5. Analysis3.php:

```

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST"){
    require_once __DIR__ . '/vendor/autoload.php';
    $con=new MongoDB\Client("mongodb://localhost:27017");
    $tbl=$con->NoSql->project;
    $ab=$_POST['list'];
    $abb=$_POST['list2'];
    $n=(int)$_POST['n'];
    $ab2=$_POST['list3'];
    $abb2=$_POST['list4'];
    $n2=(int)$_POST['n2'];
    $filter2 = array('$and'=>array(array($ab=>array($abb=>$n)),
        array($ab2=>array($abb2=>$n2))));
    $cursor2 = $tbl->find($filter2);
    $record= $tbl->count($filter2);
    echo "<hr>";
    echo "<h3>$record records found!!</h3>";
    foreach ($cursor2 as $document) {
        echo "<hr><b>Name of Institution:</b>". $document["institution"] . ".<br><b>World
Rank:</b> ". $document["world_rank"] . ".<br><b>Country:</b> ".

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.



```

$.document["country"] .".<br><b>National Rank:</b> ".$document["national_rank"].
".<br><b>Quality of Education Rank:</b> ".$document["quality_of_education"].
".<br><b>Alumni Employment Rank:</b> ".$document["alumni_employment"].
".<br><b>Quality of faculty rank:</b> ".$document["quality_of_faculty"] .
".<br><b>Publications Rank:</b> ".$document["publications"]. ".<br><b>Rank for
Influence:</b> ".$document["influence"]. ".<br><b>Rank for Citations:</b>
".$document["citations"]. ".<br><b>Rank for Broad Impact:</b>
".$document["broad_impact"]. ".<br><b>Rank for Patents:</b> ".$document["patents"].
".<br><b>Total Score:</b> ".$document["score"]. ".<br><b>Year:</b>
".$document["year"]."<hr>";
}
}
?>
<html>
  <head>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpsSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous" />
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKA1Zap3H66lZ81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>
  <STYLE>
    h1{
      text-align: center;
      background-color: orange;
    }
    body{
      background-color: lightblue;
      background-size: 100% 100%;
      padding: 5px;
    }
    .c3{
      text-align: right;
    }
    a{
      text-align: center;

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```
        color: black;
        text-decoration: none;
    }
    .button3 {
background-color:#14a76c ;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
    }
.button3:hover {opacity: 1}
.button1 {
background-color: #00fffb;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
    }
.button1:hover {opacity: 1}
.class1{
border: 5px outset black;
background-color: lightblue;
text-align: center;
padding: 10px;
font-weight: bold;
    }
.class2{
border: 5px outset black;
background-color: lightblue;
text-align: center;
padding: 10px;
font-weight: bold;
```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

}
.bu{
    text-align: center;
}
</STYle>
</head>
<body>
<nav class="navbar navbar-light bg-dark ">
    <span class="navbar-brand mb-0 h1 text-white ml-auto mr-auto"> <h2>SELECT A
FIELD AND A PROJECTION OPERATOR</h2> </span>
    <div class="c3"><button class=" button1 "><a href="Home.html">Go
Back</a></button></div>
</nav><br>
    <h5>SELECT A FIELD AND A FLAVOUR</h1>
    <form action="" method="post">
    <div class="class1">
<b>Select a Field:</b>
    <input list="browsers" id="list" name="list" placeholder="select an
item"><br><br>
<datalist id="browsers">
<option value="world_rank">
<option value="national_rank">
<option value="quality_of_education">
<option value="alumni_employment">
    <option value="quality_of_faculty"></option>
    <option value="alumni_employment"></option>
    <option value="publications"></option>
    <option value="alumni_employment"></option>
    <option value="influence">    </option>
    <option value="citations">    </option>
    <option value="broad_impact">    </option>
    <option value="patents">    </option>
    <option value="score">    </option>
    <option value="year">    </option>
</datalist>
    <b>Select a Proejection Operator:</b>
<input list="abb" id="list2" name="list2" placeholder="select an item">
<datalist id="abb" >
<option value="$gt">
<option value="$lt">
<option value="$gte">
<option value="$lte">
</datalist>
<br><br>
<b>Enter a Comparision Value</b>
    <input type="number" name="n" id="n" placeholder="Enter n value">

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

<br><br>
</div>
<br><br>
<div class="class2">
    <b>Select a Field:</b>
    <input list="browsers" id="list3" name="list3" placeholder="select an
item"><br><br>
    <b>Select a Proejction Operator:</b>
    <input list="abb" id="list4" name="list4" placeholder="select an item">
<br><br>
    <b>Enter a Comparision Value</b>
    <input type="number" name="n2" id="n2" placeholder="Enter n value">
    <br><br>
</div>
<br>
<div class="bu">
<button type="submit" class=" button3">Enter</button></div>
    </form>
</body>
</html>

```

## 6. Login.php:

```

<html>
<head><title>Login</title>
<STYle>
    body{
        background-image:url('t2.png');
        background-repeat: no-repeat;
        background-size: 100% 100%;
    }
    .abc{
        margin-left:720px;
        margin-top: 250px;
        border-radius: 25px;
        background: url(paper.jpg);
        background-position: left top;
        background-repeat: repeat;
        padding: 20px;
        width: 300px;
        height: 200px;
        font-weight: bold;
    }
    .button {
        background-color: #4CAF50; /* Green */
        border: none;
        color: white;

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

padding: 10px 32px;
text-align: center;
text-decoration: none;
display: inline-block;
font-size: 16px;
margin: 4px 2px;
transition-duration: 0.4s;
cursor: pointer;
margin-left: 100px;
}
.button2 {
background-color: white;
color: black;
border: 2px solid #008CBA;
}
.button2:hover {
background-color: #b62cd1;
color: white;
}
H2{
text-align: center;
}
</STYle>
</head>
<body>
<DIV class="abc">
<h2> <b>LOGIN</b></h2>
<form action="Login.php" method="post">
Username: <input type="text" name="user" id="user">
<br><br>
Password: <input type="password" name="pass" id="pass">
<br><br>
<button class="button button2" type="submit">Submit</button>
</form>
</DIV>
</body>
</html>
<?php
require_once __DIR__ .'/vendor/autoload.php';
$con=new MongoDB\Client("mongodb://localhost:27017");
if ($_SERVER["REQUEST_METHOD"] == "POST"){
$user=$_POST['user'];
$pass=$_POST['pass'];
$db= $con->NoSql;
$tbl=$db->login;
$qry = array("password" => $pass,"username" => $user);

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

$result = $tbl->findOne($qry);
if($result){
    echo "Login successful";
    session_start();
    $_SESSION['username'] = "rohith";
    header('Location: Home2.php');
}
}
?>

```

## 7. Home2.php:

```

<html>
<head> <title>Online Diary</title>
<style>
    header{
        background-color: red;
        text-align: center;
    }
    body{
        background-color: yellow;
        background-image:
url('https://cdn.pixabay.com/photo/2017/06/25/21/12/background-
2442009_960_720.jpg');
        background-repeat: no-repeat;
        background-size: 100% 100%;
    }
    .button {
background-color: #4CAF50; /* Green */
border: none;
color: white;
padding: 16px 32px;
text-align: center;
text-decoration: none;
display: inline-block;
font-size: 16px;
margin: 4px 2px;
transition-duration: 0.4s;
cursor: pointer;
border-radius: 50%;
}
    .button1 {
        background-color: white;
        color: black;
        border: 2px solid #4CAF50;

    }
    .button1:hover {

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```
background-color: #ffe600;
color: white;
}
.button2 {
background-color: white;
color: black;
border: 2px solid #008CBA;
}
.button2:hover {
background-color: #008CBA;
color: white;
}
.button3 {
background-color: white;
color: black;
border: 2px solid #f44336;
}

.button3:hover {
background-color: #f44336;
color: white;
}
.button4 {
background-color: white;
color: black;
border: 2px solid #555555;
}
.button4:hover {
background-color: #9000ff;
color: white;
}
.button5 {
background-color: white;
color: black;
border: 2px solid #555555;
}
.button5:hover {
background-color: #555555;
color: white;
}
.button6 {
background-color: white;
color: black;
border: 2px solid #555555;
}
.button6:hover {
```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

background-color: #FF4500;
color: white;
}
.button7 {
background-color: white;
color: black;
border: 2px solid #555555;
}
.button7:hover {
background-color: #ff00ff;
color: white;
}
a{
text-align: center;
color: black;
text-decoration: none;
}
.cd{
text-align: right;
}
.bcd{
text-align: center;
background-color:yellow;
}
.cde{
text-align: center;
}
</style>
</head>
<body>
<div class="bcd">
<h1>WELCOME, ADMIN!</h1>
</div>
<div class="cd">
<button class="button button5"><a href="Logout.php">Logout</a></button>
</div>
<div class="cde">
<button class="button button1 "><a href="insert.php">Insert new
Document</a></button>
<br>
<br>
<button class="button button3"><a href="delete.php">Delete a
Document</a></button>
<br>
<br>

```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.



```

<button class="button button2"><a href="update.php">Update a
Document</a></button>
<br>
<br>
<button class="button button4"><a href="find3.php">Read Documents</a></button>
<br>
<br>
<button class="button button7"><a href="analysis.php">Anlaysis</a></button>
<br>
<br>
<button class="button button6"><a href="analysiss2.php">Anlaysis2</a></button>
</div>
</body>
</html>

```

## 8. Insert.php:

```

<?php
session_start();
if( isset($_SESSION['username']) ){
if ($_SERVER["REQUEST_METHOD"] == "POST"){
require_once __DIR__ .'/vendor/autoload.php';
$con=new MongoDB\Client("mongodb://localhost:27017");
$a=(int)$_POST['a'];
$b=$_POST['b'];
$c=$_POST['c'];
$d=(int)$_POST['d'];
$e=(int)$_POST['e'];
$f=(int)$_POST['f'];
$g=(int)$_POST['g'];
$h=(int)$_POST['h'];
$i=(int)$_POST['i'];
$j=(int)$_POST['j'];
$k=(int)$_POST['k'];
$l=(int)$_POST['l'];
$m=(double)$_POST['m'];
$n=(int)$_POST['n'];
$db= $con->NoSql;
$tbl=$db->project;
$res=$tbl-
>insertOne(["world_rank"=>$a,"institution"=>$b,"country"=>$c,"national_rank"=>$d,"q
uality_of_education"=>$e,"alumni_employment"=>$f,"quality_of_faculty"=>$g,
"publications"=>$h,"influence"=>$i,"citations"=>$j,"broad_impact"=>$k,"patents"=>$l,
"score"=>$m,"year"=>$n]);
if($res){
echo "<h1>The entered data is successfully saved in database!</h1><br>";
}
}

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

else{
    echo "The data entry failed because of this error ---> ";
}
}}
else{
    session_unset(); // unset $_SESSION variable for the run-time
    session_destroy(); // destroy session data in storage
    header('Location:Home.html');
}
?>
<html>
<head>
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous" />
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKA1Zap3H66lZ81PoY1fFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>
<title>No Sql Home Page</title>
<style>
h1{
    text-align: center;
}
.cl{
    background-color: lightblue;
    text-align: left;
    padding: 10px;
    font-weight: bold;
    border-radius: 5%;
}
H1{
    background-color: RED;
}
h3{
    text-align:center;
}

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

a{
  text-decoration: none;
  color: black;
}
.c3{
  text-align: right;
}
BODY{
  background-image: white;
}
.cd{
  text-align: right;
}
.button1 {
background-color: #00fffb;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}
.button1:hover {opacity: 1}
.button3 {
background-color:#14a76c ;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}
.button3:hover {opacity: 1}
.container {
width: 810px;;
height: 840px;

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

        background-color:lightblue;
        padding-top:20px;
        padding-left:15px;
        padding-right:15px;
    }
    #st-box {
        padding-top:10px;

        float:left;
        width:380px;
        height:800px;
        background-color:lightblue;
        text-align: left;
    }
    #nd-box {
        padding-top:10px;
        float:left;
        width:380px;
        height:800px;
        background-color:lightblue;
        margin-left:20px;
        text-align: center;
    }
    .but{
        text-align: center;
    }
</style>
</head>
<body>
<nav class="navbar navbar-light bg-dark ">
    <span class="navbar-brand mb-0 h1 text-white ml-auto mr-auto">INSERTION OF
    DATA</span>
    <div class="c3"><button class=" button1"><a href="Home2.php">Go
    Back</a></button></div>
    <div class="cd">
        <button class=" button1"><a href="Logout.php">Logout</a></button>
    </div>
</nav><br>
<h3>ENTER THE DETAILS OF THE INSTITUTION</h3>
<br><div class="cl">
    <div class="container"> <center>
        <div id="st-box">
            Enter World Rank:<br><br>
            Enter Institution Name: <br><br>
            Enter Country Name: <br><br><br>
            Enter National Rank of Institution:<br><br>

```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

Enter rank for quality of education:<br><br>
Enter rank for alumni employment: <br><br>
Enter rank for quality of faculty:<br><br><br>
Enter rank for publications from Institution:<br><br>
Enter rank for influence:<br><br>
Enter no:of citations of Instituion:<br><br>
Enter rank for broad impact:<br><br><br>
Enter rank for patents:<br><br>
Enter total score<sub>(used for determining world rank)</sub>:<br><br>
Enter year of ranking:
</div>
<div id="nd-box">
<form action="" method="post">
<input type="number" name="a" id="a" > <br><br>
<input type="text" name="b" id="b"><br><br>
<input type="text" name="c" id="c"><br><br>
<input type="number" name="d" id="d"><br><br>
<input type="number" name="e" id="e"><br><br>
<input type="number" name="f" id="f"><br><br>
<input type="number" name="g" id="g"><br><br>
<input type="number" name="h" id="h"><br><br>
<input type="number" name="i" id="i"><br><br>
<input type="number" name="j" id="j"><br><br>
<input type="number" name="k" id="k"><br><br>
<input type="number" name="l" id="l"><br><br>
<input type="number" name="m" id="m"><br><br>
<input type="number" name="n" id="n"><br><br>
</div>
</center>
</div>
<div class="but"><button type="submit" class=" button3">Enter</button></div>
</form>
</div>
</body>
</html>

```

## 9. Delete.php:

```

<html>
<head>
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous" />
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKA1Zap3H66lZ81PoY1FhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
```

```
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>
```

```
<style>
.c3{
  text-emphasis: none;
  text-align: right;
  color: white;

}
a{
  color: black;
  text-emphasis: none;
  text-decoration: none;

}
H1{
  text-align:center;
  background-color:black;
  color:red;
}
body{
  background-color:lightblue;

}
.cd{
  text-align: right;
}
```

```
.button1 {
  background-color: #00fffb;
  border: none;
  color: white;
  padding: 16px 32px;
  text-align: center;
  font-size: 16px;
```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}
.button1:hover {opacity: 1}
.button3 {
background-color:#14a76c ;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}
.button3:hover {opacity: 1}
</style>
</head>
<body>
<nav class="navbar navbar-light bg-dark ">
  <span class="navbar-brand mb-0 h1 text-white ml-auto mr-auto"><h2>DELETION
OF DATA</h2></span>

  <div class="c3"><button class=" button1 "><a href="Home2.php">Go
Back</a></button></div>
<div class="cd">
  <button class=" button1 "><a href="Logout.php">Logout</a></button>
</div>
</nav>
<h5>Note: Deletion will be based on the university rank</h5>

<form action="" method="post">
  <h5>Enter Rank of the university: <input type="number" name="n" id="n"></h5>
  <br>
  <button type="submit" class=" button3">Enter</button>
</form>
</body>
</html>
<?php

```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

session_start();
if( isset($_SESSION['username']) ){
if ($_SERVER["REQUEST_METHOD"] == "POST"){
require_once __DIR__ .'/vendor/autoload.php';
$con=new MongoDB\Client("mongodb://localhost:27017");
$n=(int)$_POST['n'];
$db= $con->NoSql;
$tbl=$db->project;
$res=$tbl->deleteOne([ "world_rank" => $n ]);

if($res){
    echo "<h1>The entered data is  successfully deleted from database!</h1><br>";
}

$cursor = $tbl->find();
// iterate cursor to display title of documents
foreach ($cursor as $document) {
    echo "<hr><b>Name of Institution:</b>". $document["institution"] .
    "<br><b>World Rank</b> ". $document["world_rank"] . " <br><b>National Rank</b>
    ". $document["national_rank"] . " <br><b>Year</b> ". $document["year"]. "<br>";

}
}
}
else{
    session_unset(); // unset $_SESSION variable for the run-time
    session_destroy(); // destroy session data in storage
    header('Location:Home.html');
}
?>

```

## 10. Update.php:

```

<?php
session_start();
if( isset($_SESSION['username']) ){
if ($_SERVER["REQUEST_METHOD"] == "POST"){
require_once __DIR__ .'/vendor/autoload.php';
$con=new MongoDB\Client("mongodb://localhost:27017");
$db= $con->NoSql;
$tbl=$db->project;
$a=(int)$_POST['a'];
$b=$_POST['b'];
$c=$_POST['c'];
$d=(int)$_POST['d'];
$e=(int)$_POST['e'];
$f=(int)$_POST['f'];
$g=(int)$_POST['g'];

```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.



```

$h=(int)$_POST['h'];
$i=(int)$_POST['i'];
$j=(int)$_POST['j'];
$k=(int)$_POST['k'];
$l=(int)$_POST['l'];
$m=(int)$_POST['m'];
$n=(int)$_POST['n'];
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'institution' => $b ] ]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'country' => $c ] ]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'national_rank' => $d ] ]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'quality_of_education' => $e ] ]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'alumni_employment' => $f ] ]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'quality_of_faculty' => $g ] ]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'publications' => $h ] ]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'influence' => $i ] ]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'citations' => $j ] ]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'broad_impact' => $k ] ]

```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'patents' => $l ]]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'score' => $m ]]
);
$updateResult = $tbl->updateOne(
    [ 'world_rank' =>$a ],
    [ '$set' => [ 'year' => $n ]]
);
if($updateResult){
    echo "<h1>The entered data is successfully updated in database!</h1><br>";
}
foreach ($updateResult as $document) {
    echo "<hr><b>Name of Institution:</b>". $document["institution"] .
".<br><b>World Rank</b> ". $document["world_rank"] . ".<br><b>National Rank</b>
". $document["national_rank"] . ".<br><b>Year</b> ". $document["year"]. "<hr>";
}
}
}
else{
    session_unset(); // unset $_SESSION variable for the run-time
    session_destroy(); // destroy session data in storage
    header('Location:Home.html');
}
?>
<html>
<head>
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpsL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous" />
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKAizap3H66lZ81PoYIFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV"  
crossorigin="anonymous"></script>

```
<style>
  a{
    color: black;
    text-emphasis: none;
    text-decoration: none;
  }
  h1{
    text-align:center;
    background-color: red;
  }
  .c3{
    text-align: right;
  }
  .cl{
    background-color: lightblue;
    text-align: left;
    padding: 10px;
    font-weight: bold;
    border-radius: 5%;
  }
  body{
    background-color: lightblue;
    background-repeat: no-repeat;
    background-size: 100% 100%;
    font-weight: bold;
    text-align: center;
  }
  .ablh{
    background-color:white;
    width: 1000px;
    text-align: center;
    padding: 5px;border: 5px outset red;
    margin-left:250px;
  }
  .cd{
    text-align: right;
  }
  .button3 {
background-color:#14a76c ;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}
.button3:hover { opacity: 1 }
.button1 {
background-color: #00fffb;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}
.button1:hover { opacity: 1 }
.container {
width: 810px;;
height: 840px;
background-color:lightblue;
padding-top:20px;
padding-left:15px;
padding-right:15px;
}
#st-box {
padding-top:10px;
float:left;
width:380px;
height:800px;
background-color:lightblue;
text-align: left;
}
#nd-box {
padding-top:10px;
float:left;
width:380px;
height:800px;
background-color:lightblue;
margin-left:20px;

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

        text-align: center;
    }
    .but{
        text-align: center;
    }
</style>
</head>
<body>
<nav class="navbar navbar-light bg-dark ">
    <span class="navbar-brand mb-0 h1 text-white ml-auto mr-auto"><h2>UPDATION
OF DATA</h2></span>
    <div class="c3"><button class=" button1 "><a href="Home2.php">Go
Back</a></button></div>
<div class="cd">
    <button class=" button1 "><a href="Logout.php">Logout</a></button>
</div>
</nav>
<br>
<h3>ENTER THE DETAILS OF THE INSTITUTION</h3>
<br><div class="cl">
<div class="container"> <center>
    <div id="st-box">
        Enter World Rank:<br><br>
Enter Institution Name: <br><br>
Enter Country Name: <br><br><br>
Enter National Rank of Institution:<br><br>
Enter rank for quality of education:<br><br>
Enter rank for alumni employment: <br><br>
Enter rank for quality of faculty:<br><br><br>
Enter rank for publications from Institution:<br><br>
Enter rank for influence:<br><br>
Enter no:of citations of Instituion:<br><br>
Enter rank for broad impact:<br><br><br>
Enter rank for patents:<br><br>
Enter total score<sub>(used for determining world rank)</sub>:<br><br>
Enter year of ranking:
    </div>
    <div id="nd-box">
        <form action="" method="post">
            <input type="number" name="a" id="a" > <br><br>
            <input type="text" name="b" id="b"><br><br>
            <input type="text" name="c" id="c"><br><br>
            <input type="number" name="d" id="d"><br><br>
            <input type="number" name="e" id="e"><br><br>
            <input type="number" name="f" id="f"><br><br>
            <input type="number" name="g" id="g"><br><br>

```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

        <input type="number" name="h" id="h"><br><br>
        <input type="number" name="i" id="i"><br><br>
        <input type="number" name="j" id="j"><br><br>
        <input type="number" name="k" id="k"><br><br>
        <input type="number" name="l" id="l"><br><br>
        <input type="number" name="m" id="m"><br><br>
        <input type="number" name="n" id="n"><br><br>
    </div>
</center>
</div>
<div class="but"><button type="submit" class=" button3">Enter</button></div>
</form>
</body>
</html>

```

## 11. Analysis.php:

```

<html>
  <head>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous" />
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKA1Zap3H66lZ81PoYIFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPIYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>

  <STyle>
    h1{
      text-align: center;
      background-color: orange;
    }
    body{
      background-color: lightblue;
      background-size: 100% 100%;
    }
    .c3{

```

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```

        text-align: right;
    }
    a{
        text-align: center;
        color: black;
        text-decoration: none;
    }

.button3 {
background-color:#14a76c ;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}
.button3:hover {opacity: 1}

.button1 {
background-color: #00fffb;
border: none;
color: white;
padding: 16px 32px;
text-align: center;
font-size: 16px;
margin: 4px 2px;
opacity: 0.6;
transition: 0.3s;
display: inline-block;
text-decoration: none;
cursor: pointer;
}

.button1:hover {opacity: 1}
</STYle>
</head>
<body>
<nav class="navbar navbar-light bg-dark ">

```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```
<span class="navbar-brand mb-0 h1 text-white ml-auto mr-auto"> <h2>SELECT A  
FIELD AND A PROJECTION OPERATOR</h2> </span>
```

```
<div class="c3"><button class=" button1 "><a href="Home2.php">Go  
Back</a></button></div>
```

```
<div class="cd">
```

```
<button class=" button1 "><a href="Logout.php">Logout</a></button>
```

```
</div>
```

```
</nav><br>
```

```
<form action="" method="post">
```

```
<b>Select a Field:</b>
```

```
<input list="browsers" id="list" name="list" placeholder="select an  
item"><br><br>
```

```
<datalist id="browsers">
```

```
<option value="world_rank">
```

```
<option value="national_rank">
```

```
<option value="quality_of_education">
```

```
<option value="alumni_employment">
```

```
<option value="quality_of_faculty"></option>
```

```
<option value="alumni_employment"></option>
```

```
<option value="publications"></option>
```

```
<option value="alumni_employment"></option>
```

```
<option value="influence"> </option>
```

```
<option value="citations"> </option>
```

```
<option value="broad_impact"> </option>
```

```
<option value="patents"> </option>
```

```
<option value="score"> </option>
```

```
<option value="year"> </option>
```

```
</datalist>
```

```
<b>Select a Proejection Operator:</b>
```

```
<input list="abb" id="list2" name="list2" placeholder="select an item">
```

```
<datalist id="abb" >
```

```
<option value="$gt">
```

```
<option value="$lt">
```

```
<option value="$gte">
```

```
<option value="$lte">
```

```
</datalist>
```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.



```

<br><br>
<b>Enter a Comparison Value</b>
    <input type="number" name="n" id="n" placeholder="Enter n value">
    <br><br>
    <button type="submit" class=" button3">Enter</button>
    </form>
</body>
</html>
<?php
session_start();

if( isset($_SESSION['username']) ){

if ($_SERVER["REQUEST_METHOD"] == "POST"){
require_once __DIR__ .'/vendor/autoload.php';
$con=new MongoDB\Client("mongodb://localhost:27017");
$tbl=$con->NoSql->project;
$ab=$_POST['list'];
$abb=$_POST['list2'];

$n=(int)$_POST['n'];
$filter = [$ab => [$abb => $n ]];

$cursor = $tbl->find($filter);

    foreach ($cursor as $document) {
        echo "<hr><b>Name of Institution:</b>". $document["institution"] . ".<br><b>World
Rank:</b> ". $document["world_rank"] . ".<br><b>Country:</b> ".
$document["country"] . ".<br><b>National Rank:</b> ". $document["national_rank"].
".<br><b>Quality of Education Rank:</b> ". $document["quality_of_education"].
".<br><b>Alumni Employment Rank:</b> ". $document["alumni_employment"].
".<br><b>Quality of faculty rank:</b> ". $document["quality_of_faculty"] .
".<br><b>Publications Rank:</b> ". $document["publications"]. ".<br><b>Rank for
Influence:</b> ". $document["influence"]. ".<br><b>Rank for Citations:</b>
". $document["citations"]. ".<br><b>Rank for Broad Impact:</b>
". $document["broad_impact"]. ".<br><b>Rank for Patents:</b> ". $document["patents"].
".<br><b>Total Score:</b> ". $document["score"]. ".<br><b>Year:</b>
". $document["year"]. "<hr>";

    }
    try{
        $abb=count(iterator_to_array($cursor));
        if($abb==0){
            echo "No records found...enter a new value in the textbox to obtain new result";
        }
    }
}
}

```

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Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

```
        catch(Exception $e) {  
            echo " ";  
        }  
  
    }  
  
    }  
    else{  
        session_unset(); // unset $_SESSION variable for the run-time  
        session_destroy(); // destroy session data in storage  
        header('Location:Home.html');  
    }  
?>
```

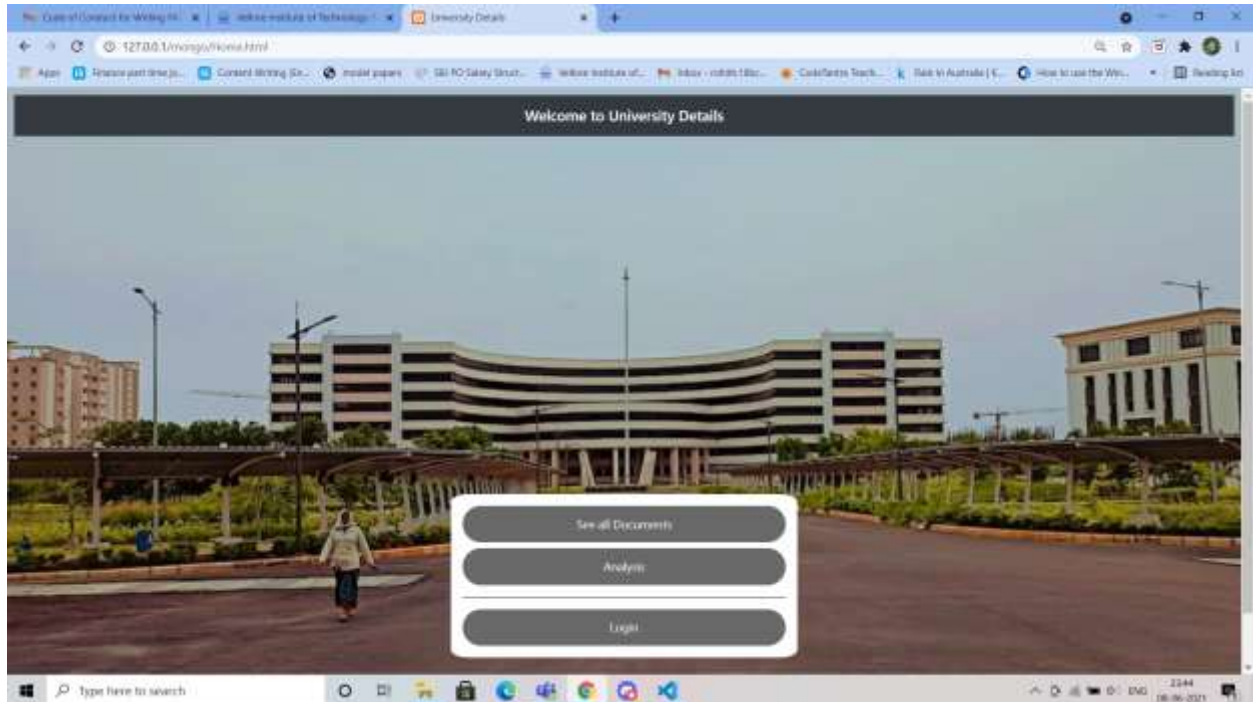
#### 12. Logout.php:

```
<?php  
session_unset(); // unset $_SESSION variable for the run-time  
session_destroy(); // destroy session data in storage  
header('Location: Home.html');  
?>
```

# CHAPTER 7

## SCREENSHOTS

### HOME PAGE:



### READ OPERATION PAGE:



Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

## SELECT 2 PAGE:

127.0.0.1:8080/ivylib2.php

127.0.0.1:8080/ivylib2.php

VIEW DOCUMENTS W.R.T A VALUE

Go Back View

SELECT AN INTEGER FIELD AND ITS RESPECTIVE VALUE

Select an item

Enter a value

SELECT A STRING FIELD AND ITS RESPECTIVE VALUE

Select an item

Enter a value

Enter

Press the following button if you want to search a field w.r.t a string

2 records found!!

Publication Name	Publication Year	Country	Abstract Year	DOI	Journal Name	Quality of Funding	Publication	Abstract	Abstract	Abstract	Abstract	Abstract	Abstract	Abstract
Massachusetts Institute of Technology	2	USA	2	11	2	15	2	2	2	2	2	2	2	2
Massachusetts Institute of Technology	1	USA	1	11	2	15	2	2	2	2	2	2	2	2

Type here to search

12:11 12-09-2021

## SELECT 3 PAGE:

127.0.0.1:8080/ivylib2.php

127.0.0.1:8080/ivylib2.php

SELECT A FIELD AND ENTER SEARCH WITH STRING

Go Back View

SELECT A FIELD AND ITS RESPECTIVE VALUE

Select an item

Enter a value

Enter

459 records found!!

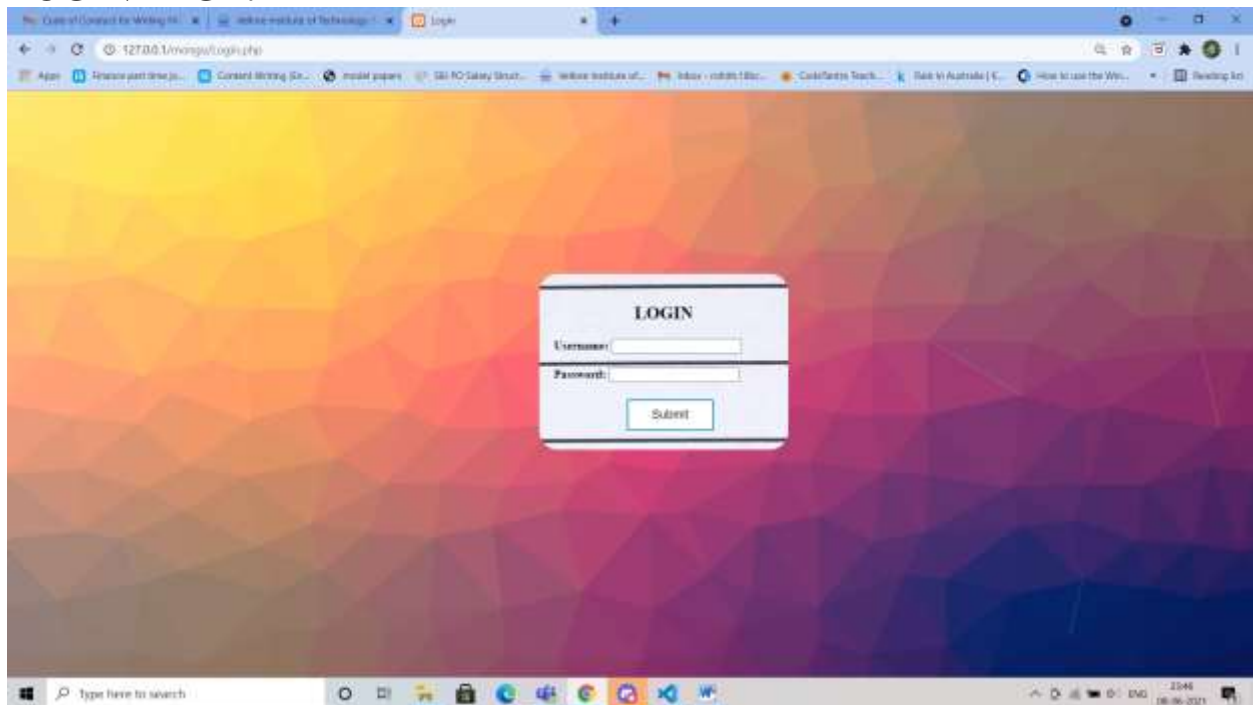
Publication Name	Publication Year	Country	Abstract Year	DOI	Journal Name	Quality of Funding	Publication	Abstract	Abstract	Abstract	Abstract	Abstract	Abstract	Abstract
Harvard University	1	USA	1	1	1	1	1	1	1	1	1	1	1	1
Stanford University	2	USA	2	11	2	4	5	3	3	4	6	6	6	6
Massachusetts Institute of Technology	3	USA	3	11	2	15	2	2	2	2	2	2	2	2
Columbia University	6	USA	6	11	8	9	14	12	9	11	4	4	4	4
University of California Berkeley	7	USA	7	22	6	7	4	3	7	26	62.64	62.64	62.64	62.64
University of Chicago	8	USA	8	14	14	8	17	18	18	18	140	12.03	12.03	12.03
Princeton University	9	USA	9	16	16	28	25	19	41	204	88.56	88.56	88.56	88.56
Yale University	10	USA	10	25	11	18	7	32	19	45	88.11	88.11	88.11	88.11
Cornell University	11	USA	11	18	19	23	15	23	23	12	83.8	83.8	83.8	83.8

Type here to search

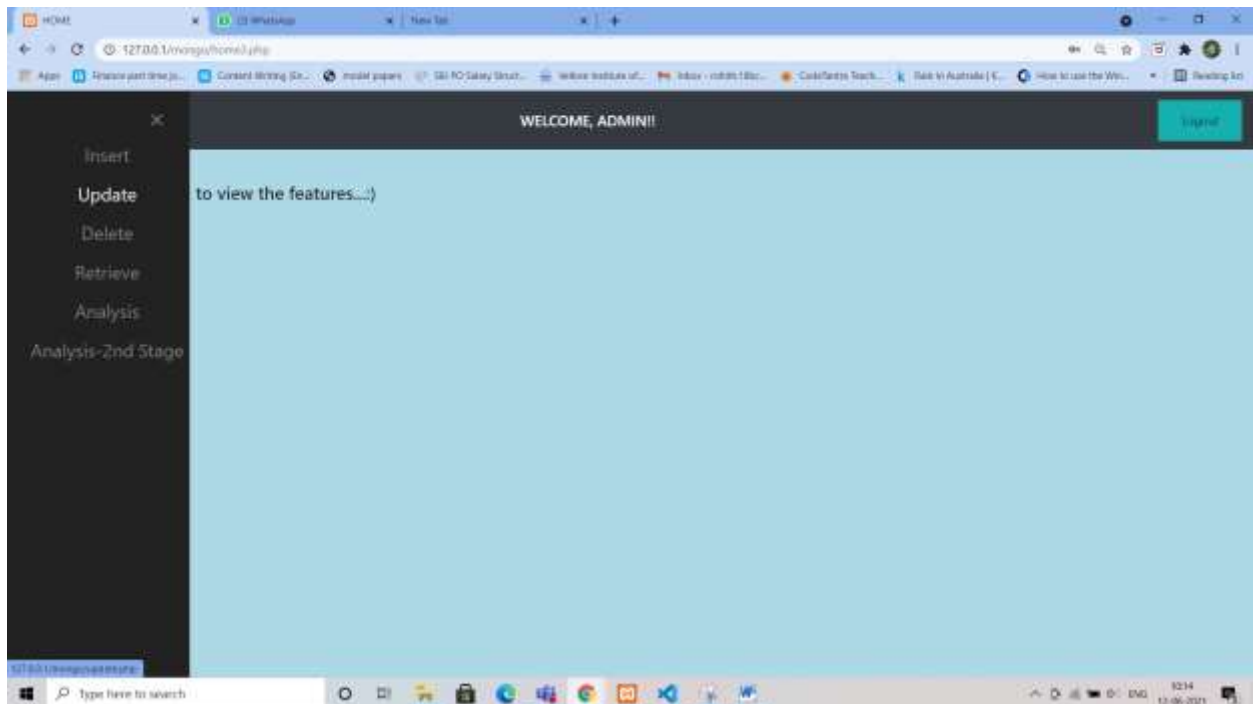
12:11 12-09-2021

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

## LOGIN PAGE:



## HOME PAGE 2:



Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

## INSERT PAGE:

INSERTION OF DATA

Go Back

Go Back

ENTER THE DETAILS OF THE INSTITUTION

Enter World Rank:

Enter Institution Name:

Enter Country Name:

Enter National Rank of Institution:

Enter rank for quality of education:

Enter rank for alumni employment:

Enter rank for quality of faculty:

Enter rank for publications from Institution:

Enter rank for influence:

Enter total citations of Institution:

Enter rank for broad impact:

## DELETE PAGE:

DELETION OF DATA

Go Back

Go Back

Note: Deletion will be based on the university rank

Enter Rank of the university:

Enter

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.



## UPDATE PAGE:

The screenshot shows a web browser window with the URL [127.0.0.1:8080/updates.php](http://127.0.0.1:8080/updates.php). The page has a dark header with the title "UPDATION OF DATA" and two buttons: "Go Back" and "Logout". Below the header, there is a light blue main area with the heading "ENTER THE DETAILS OF THE INSTITUTION". This area contains ten input fields, each preceded by a label: "Enter World Rank:", "Enter Institution Name:", "Enter Country Name:", "Enter National Rank of Institution:", "Enter rank for quality of education:", "Enter rank for alumni employment:", "Enter rank for quality of faculty:", "Enter rank for publications from Institution:", "Enter rank for influence:", "Enter no of citations of institutions:", and "Enter rank for broad impact:". At the bottom of the browser window, the Windows taskbar is visible, showing the search bar and various application icons.

## ANALYSIS PAGE:

The screenshot shows a web browser window with the URL [127.0.0.1:8080/analysis.php](http://127.0.0.1:8080/analysis.php). The page has a dark header with the title "SELECT A FIELD AND A PROJECTION OPERATOR" and two buttons: "Go Back" and "Logout". Below the header, there is a light blue main area with five input fields, each preceded by a label: "Select a Field:", "Select a Projection Operator:", "Enter a Comparison Value:", "Select a String Field:", and "Enter a String Value:". A green "Enter" button is located below the input fields. At the bottom of the browser window, the Windows taskbar is visible, showing the search bar and various application icons.

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.

## ANALYSIS-2 PAGE:

The screenshot shows a web browser window with the URL [127.0.0.1:5000/analysis2.php](http://127.0.0.1:5000/analysis2.php). The page has a dark header with the title "SELECT A FIELD AND A PROJECTION OPERATOR" and two buttons: "Go Back" and "Logout". Below the header, there is a sidebar menu with a hamburger icon and the text "SELECT A FIELD AND A FLAVOUR". The main content area contains three identical form sections, each with a light blue background and a dark border. Each form section has three input fields: "Select a Field:" with a dropdown menu showing "select an item", "Select a Projection Operator:" with a dropdown menu showing "select an item", and "Enter a Comparison Value:" with a text input field showing "Enter its value". The bottom of the browser window shows the Windows taskbar with various application icons and the system clock displaying 10:17 on 12-06-2021.

Done by Rohith ([1309rohith@gmail.com](mailto:1309rohith@gmail.com)) and  
Nithin ([saginithin9@gmail.com](mailto:saginithin9@gmail.com)). Contact us for more details.



## **CHAPTER 8**

### **REFERENCES**

1. Dataset Link: <https://www.kaggle.com/mylesoneill/world-university-rankings>
2. <https://docs.mongodb.com/php-library/v1.3/tutorial/crud/>
3. <https://www.youtube.com/watch?v=hEU8Ccck1Qc>
4. <https://www.youtube.com/watch?v=XNVA1-kfNnI>
5. [https://stackoverflow.com/questions/23965996/count-mongodb-in-php/40366440#:~:text=%3C%3F,%22\)\)\)%3B%20%3F%3E](https://stackoverflow.com/questions/23965996/count-mongodb-in-php/40366440#:~:text=%3C%3F,%22)))%3B%20%3F%3E)
6. <https://docs.mongodb.com/php-library/v1.2/reference/method/MongoDBCollection-insertOne/>
7. <https://docs.mongodb.com/php-library/v1.2/reference/method/MongoDBCollection-updateOne/>
8. <https://docs.mongodb.com/php-library/v1.2/reference/method/MongoDBCollection-find/>

**THANK YOU**  
**THE END**