

INDIANS SCHOOLS LIST SYSTEM

A PROJECT REPORT

Submitted for

CSE3009 – NoSQL Databases

by

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May 2021

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ABSTRACT

This project focuses on creating a web application to provide effective assistance to find schools list all over INDIA. SMS schools list generate a simple report from a mongo dB (excel) file containing the details and state vise schools.

The main aim of this project is to help people to choose a school is available in their locality or state. The data which is available can quickly generate a report of the schools in and around your state. In advance we are going to separate the columns by the fees, teachers and other aspects. This application requires an email id and password to sign in the website. Select the state and board which you are interested in. When the list of schools has been generated, it is automatically displayed on the web page where you can check the schools around you.

CHAPTER 1

INTRODUCTION

The education sector in India has been rapidly growing with the use of technology and the invention of new techniques for education. The technology has increased the provider capabilities resulting in improved quality of life. This growth cannot change the importance of unemployment.

The rate of deaths due to peer pressure has been rapidly increasing. The quality of education is important for the society. As these kids are the future. So choosing a best school in and around also matters a lot. Here we came up with the best schools and low fee for all age group of students to start their career.

1.1 Objectives

The following are the objectives of this project:

- creating an application to provide effective assistance to find the best schools in your state.
- generate a simple report of schools in a particular state/city.
- allow the parent/guardian to estimate the fee for his/her child.

1.2 Background and Literature Survey

According to Indians psychology, most of our parent want their children to be competitive. From the results of the survey we have conducted, most of the parents have taken min of 20 advices from their colleague's, neighbors and relatives.

On an average, parents want their children to be back at home 10-15 minutes after their classes. So, they prefer the closest school near to their house. An auto Wala come and pick up the students and drop at their location within the range of 10-15mins. Even this idea of this project is to make the parent at the home aware of the children's condition within 8-10 minutes.

The basis of this project comes for the two major problems. Firstly, in India, about 20% of students deaths are caused during peer pressure. Secondly, The travel from school to their residence. A majority of software's that have the education transcription feature, support only Windows and Android. (Ex: The FTW Transcriber, Express Scribe).

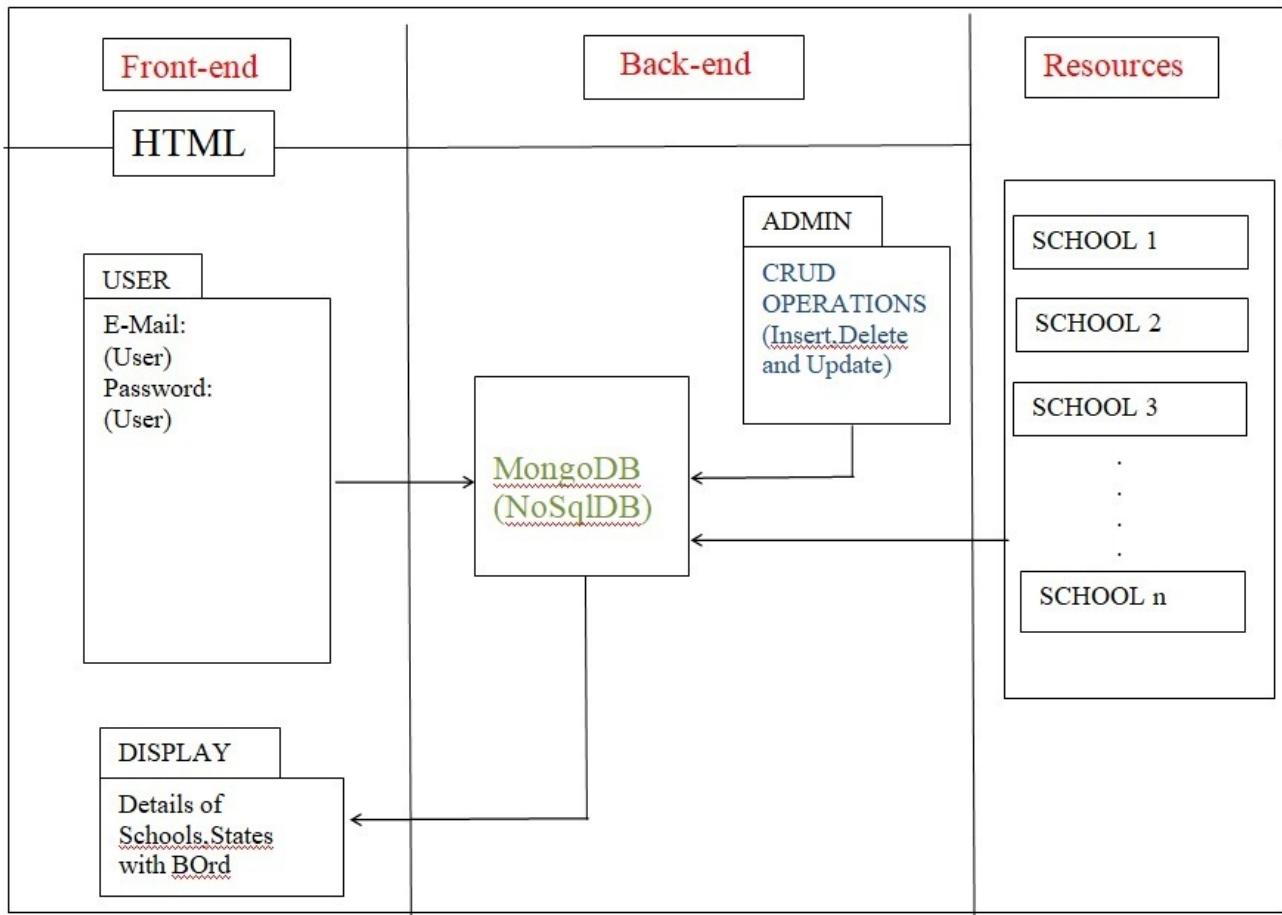
CHAPTER 2

INDIANS SCHOOLS LIST SYSTEM USING MONGODB

This Chapter describes the proposed system, working methodology and software details.

2.1 Proposed System

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



2.2 Working Methodology

The project is completely based on software with two sections, front-end and back-end. The front-end consists of an HTML (Hypertext Markup Language) file and a CSS(Cascading Style Sheets) file. Being a static website, it has been hosted using xamp. The back-end is entirely on MONGO DB. The functions are automatically done, once you are logged in.

Here we have uploaded the data using JSON file. Approx. 3660+ records have been uploaded. Each set has a school name, state and board. The compiler that has been used Visual Studio Code. Here we have added an extension called mongo dB for vs code 0.5.0. Here we have used NOSQL commands to connect the database and retrieve the database. For hosting, we have downloaded xamp. To install packages of php, we have used cmd. All the files related to this project are saved in XAMP-> htdocs. We have to download one more called Notepad++ for editing the code. For better usage try to have an 8GB ram and sufficient amount of space for downloads.

In the data base, we have created an excel sheet and downloaded in .csv file. Here after we have converted into. json. So that it can be converted to code easily. In the mongo shell we have used NoSQL commands and insert the data. Here after we have created the web page to represent the data what we have in the database.

CHAPTER 3

RESULTS AND DISCUSSIONS

This application consists of a single web page allowing the user to fill a form with a valid email address and mobile number. When an invalid email address and/or an invalid file is submitted, an error message is displayed.

After the signup process the user will be able to choose the type of education board, which their kid /parent want to join. After choosing the board they can choose in which state they want to peruse. Here after there is a special feature, where you can get the list of schools sent to your mail id.

Output:

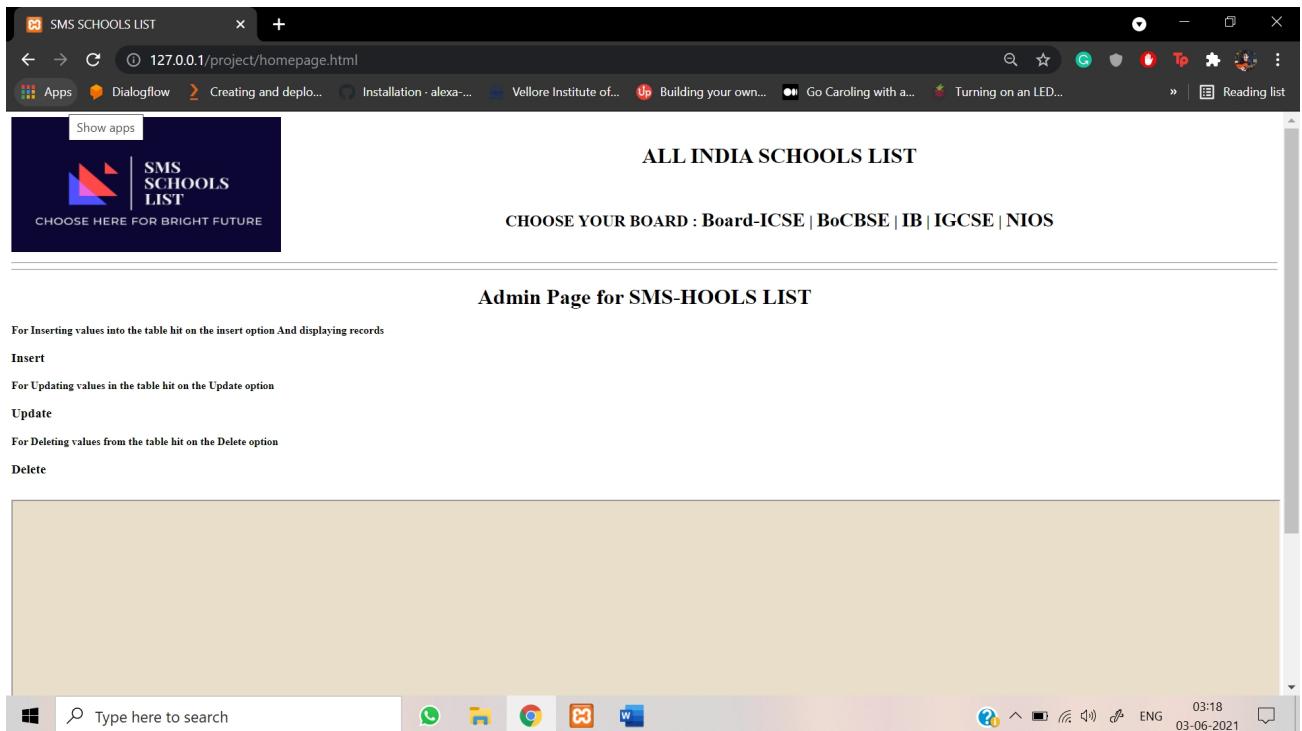
Database :

The screenshot shows the MongoDB Compass interface connected to a local host at port 27017. The left sidebar lists 16 databases and 13 collections, with 'schools_list' being the active database. The main window displays the 'schools_list.school_list_data' collection, which has 3.6k documents. The table view shows four documents with the following data:

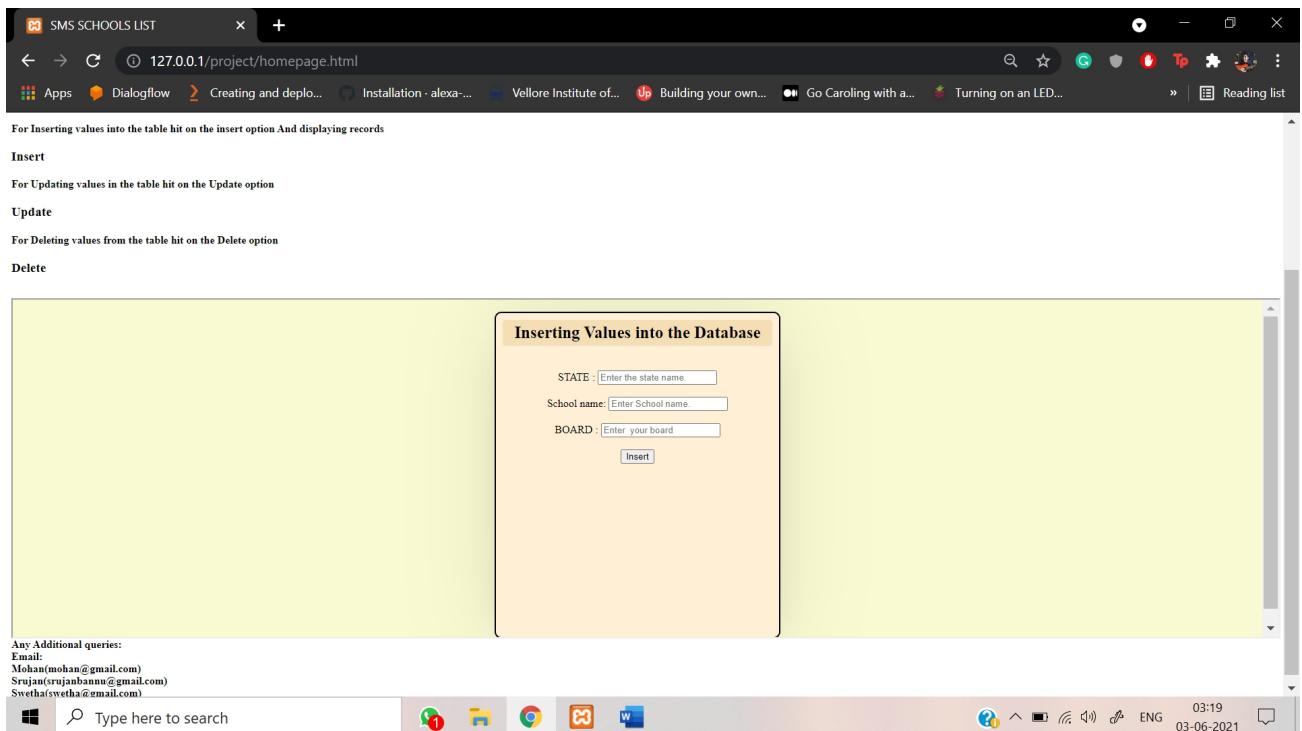
| _id | SCHOOLNAME | STATE | BOARD |
|-------|--|-----------------------|--------|
| {...} | "Tawader Navodaya Vidyalayat Lapathy, Nicobar - Andaman and Nicobar Islands" | "ANJANAP AND NICOBAR" | "CBSE" |
| {...} | "Tawader Navodaya Vidyalayes Panchbati, Andaman - Andaman and Nicobar Islands" | "ANJANAP AND NICOBAR" | "CBSE" |
| {...} | "Naval Public School Minnie Bay Jungighat - Andaman and Nicobar Island" | "ANJANAP AND NICOBAR" | "CBSE" |
| {...} | "State International school" | "ANJANAP AND NICOBAR" | |

ADMIN Panel:

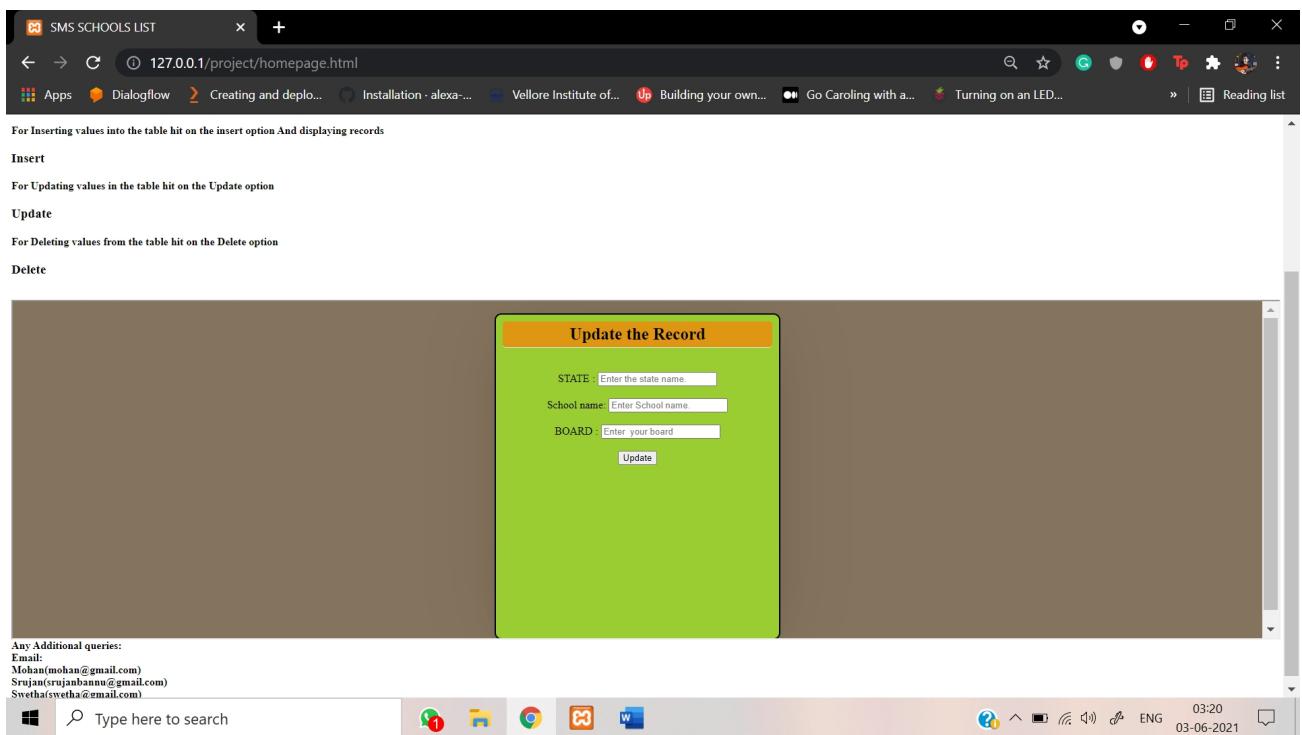
CURD



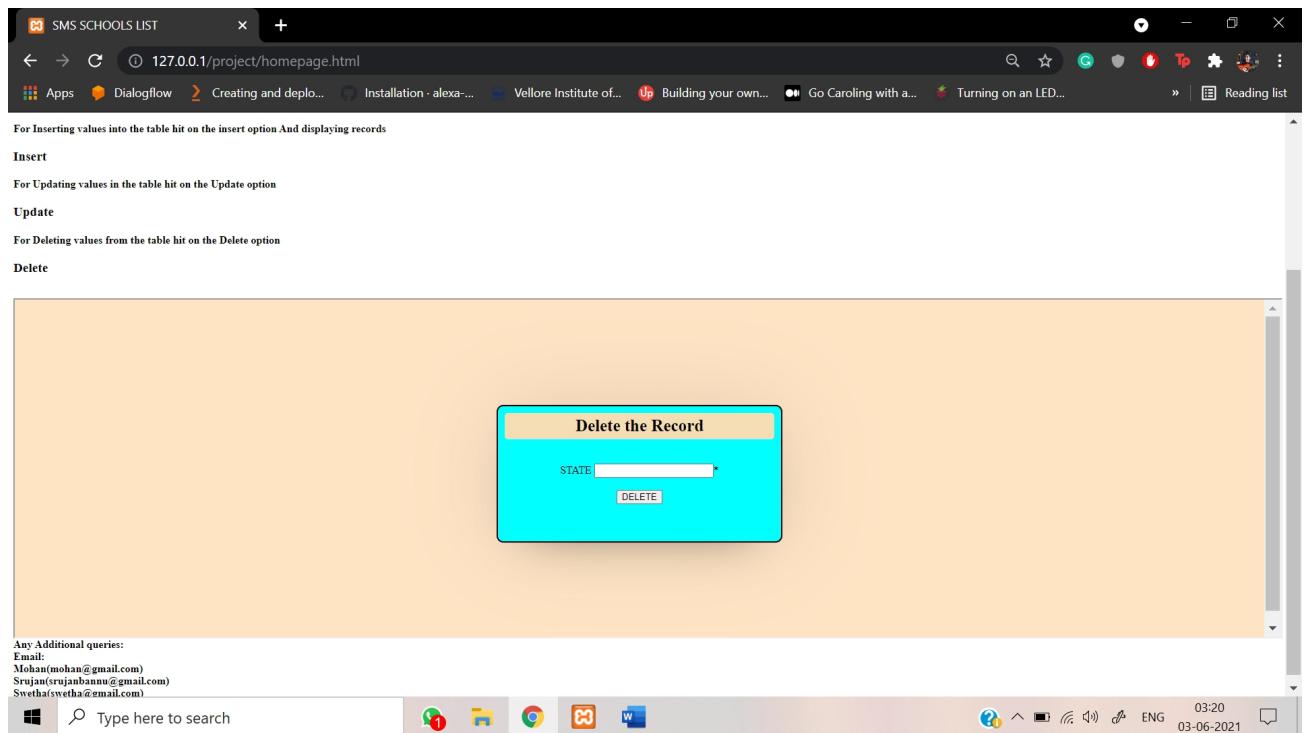
When you Press INSERT:



When you Press UPDATE:



When you Press DELETE:



User Page:

When we select ICSE
board:



ALL INDIA SCHOOLS LIST

CHOOSE YOUR BOARD : Board-ICSE | BoCBSE | IB | IGCSE | NIOS

| | | |
|----------------|---|------|
| ANDHRA PRADESH | Queen Mary's School ICSE YSR DISTRICT Andhra Pradesh | ICSE |
| ANDHRA PRADESH | The Hyderabad Public School ICSE YSR DISTRICT Andhra Pradesh | ICSE |
| ANDHRA PRADESH | Paramanyoti Public School ICSE EAST GODAVARI Andhra Pradesh | ICSE |
| ANDHRA PRADESH | St. Joseph's Convent School ICSE EAST GODAVARI Andhra Pradesh | ICSE |
| ANDHRA PRADESH | St. Ann's School ICSE EAST GODAVARI Andhra Pradesh | ICSE |
| ANDHRA PRADESH | Sri Satya Sai Gurukulam E.S. School ICSE EAST GODAVARI Andhra Pradesh | ICSE |
| ANDHRA PRADESH | The Future Kid's School ICSE EAST GODAVARI Andhra Pradesh | ICSE |
| ANDHRA PRADESH | Loyola Public School ICSE GUNTUR Andhra Pradesh | ICSE |
| ANDHRA PRADESH | St. Joseph's Public School ICSE HYDERABAD Andhra Pradesh | ICSE |
| ANDHRA PRADESH | Sri Sri Public School ICSE HYDERABAD Andhra Pradesh | ICSE |
| ANDHRA PRADESH | Seventh Day Adventist High School ICSE HYDERABAD Andhra Pradesh | ICSE |
| ANDHRA PRADESH | Johnson Grammar School ICSE HYDERABAD Andhra Pradesh | ICSE |
| ANDHRA PRADESH | St. Martin's High School ICSE HYDERABAD Andhra Pradesh | ICSE |
| ANDHRA PRADESH | Gitanjali School ICSE HYDERABAD Andhra Pradesh | ICSE |
| ANDHRA PRADESH | Adarsh Public School Vinayak Nagar Pedagantyuda - Andhra Pradesh | ICSE |
| ANDHRA PRADESH | Air Force School Air Force Academy Hyderabad - Andhra Pradesh | ICSE |
| ANDHRA PRADESH | > Azaan International School | ICSE |
| ANDHRA PRADESH | > C.g.r. International School | ICSE |
| ANDHRA PRADESH | > Dr. K.k.'s Gowtham International School | ICSE |
| ANDHRA PRADESH | > Foundation International School | ICSE |
| ANDHRA PRADESH | > Fusion International School | ICSE |

Any Additional queries:
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When we select NIOS board:

ALL INDIA SCHOOLS LIST

CHOOSE YOUR BOARD : Board-ICSE | BoCBSE | IB | IGCSE | **NIOS**

| STATE | SCHOOL Name | BOARD |
|-------------|---|-------|
| TAMILNADU | Sankalp Open School - Special School (Learning Challenges - Dyslexia) CHENNAI | NIOS |
| KARNATAKA | Delhi Public School Bangalore North, Bangalore (Bengaluru) ... | NIOS |
| MAHARASTRA | Jambai Narsee School, Vile Parle West, Mumbai ... | NIOS |
| KARNATAKA | Clarence High School, Richards Town, Bangalore (Bengaluru) | NIOS |
| KARNATAKA | Delhi Public School, Bangalore East, Bangalore (Bengaluru) | NIOS |
| DELHI | Kothari International School, Sector 50, Noida | NIOS |
| RAJASTHAN | Kids Club School, Mansarovar, Jaipur | NIOS |
| BIHAR | St. Xavier's Higher Secondary School, Bettiah | NIOS |
| DELHI | Sanskrit School, Chanakyapuri, Delhi | NIOS |
| WEST BENGAL | The Heritage School, Anandpur, Kolkata | NIOS |
| WEST BENGAL | Modella Caretaker Center And School, Fulbari, Rajganj | NIOS |

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 127.0.0.1/project/niost.php

CHAPTER 4

CONCLUSION AND FUTURE WORK

This web application builds a path to utilize every second to its maximum. It allows the parent and the children to make the necessary arrangements for the best school in advance before their arrival and saves a lot of time during a crucial situations like transfers.

The schools research field and the technology, both are open to improvements with huge scopes.

Lot can be done in this area. This project can be extended

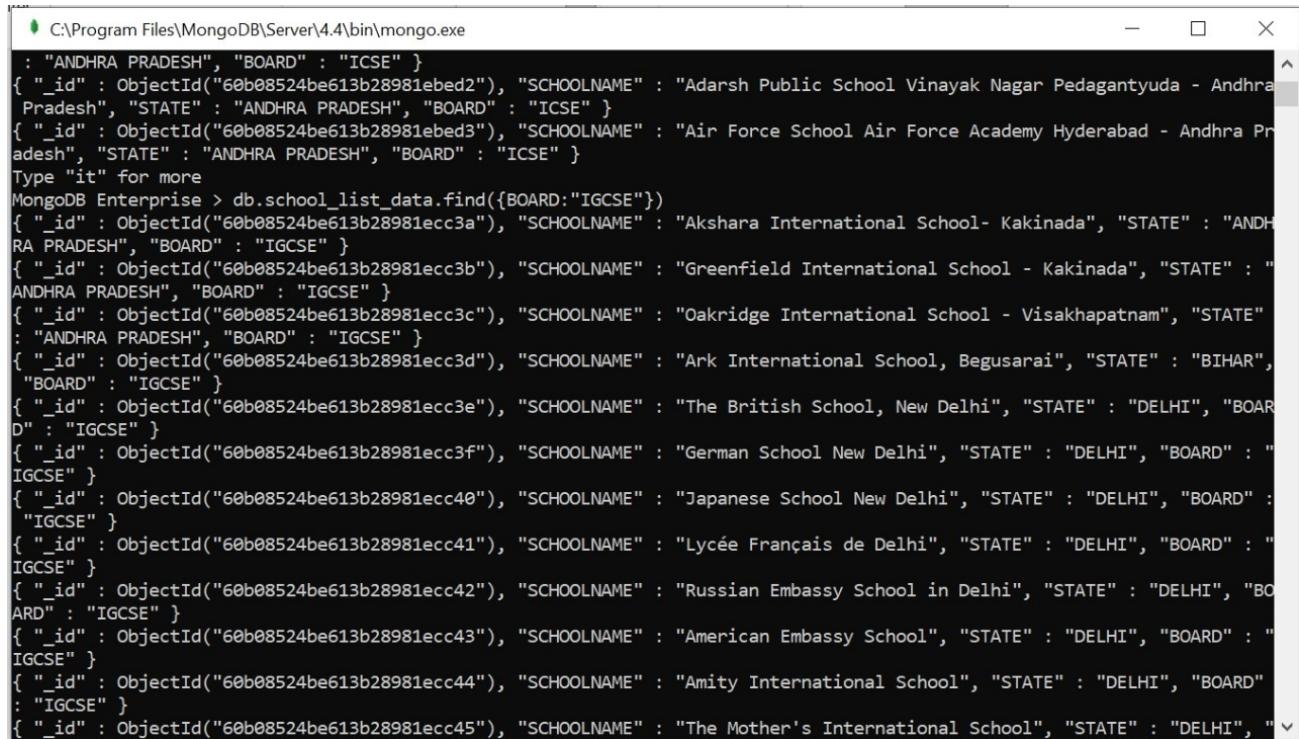
- to support translation using google Translate.
- to share the current location of the parent/guardian to provide a heads-up on the schools opening time of arrival.
- to support the storage and retrieval of reports by schools' staff as well as the children.

Execution in mongo shell:

```
C:\Program Files\MongoDB\Server\4.4\bin\mongo.exe
MongoDB shell version v4.4.3
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("409e3ffa-f193-4e9d-abc0-b2dd7993602c") }
MongoDB server version: 4.4.3
---
The server generated these startup warnings when booting:
    2021-05-27T12:28:50.011+05:30: Access control is not enabled for the database. Read and write access to data and
configuration is unrestricted
---
MongoDB Enterprise > use db
switched to db db
MongoDB Enterprise > use schools_list
switched to db schools_list
MongoDB Enterprise > show collections
info
newslist
school_list_data
MongoDB Enterprise > db.school_list_data.find()
{ "_id" : ObjectId("60b08524be613b28981ebbea"), "SCHOOLNAME" : "Jawahar Navodaya Vidyalayas Lapathy, Nicobar - Andaman and Nicobar Islands", "STATE" : "ANDAMAN AND NICOBAR", "BOARD" : "CBSE" }
{ "_id" : ObjectId("60b08524be613b28981ebbeb"), "SCHOOLNAME" : "Jawahar Navodaya Vidyalayas Panchvati Andaman - Andaman and Nicobar Islands", "STATE" : "ANDAMAN AND NICOBAR", "BOARD" : "CBSE" }
{ "_id" : ObjectId("60b08524be613b28981ebebc"), "SCHOOLNAME" : "Naval Public School Minnie Bay Junglighat - Andaman and Nicobar Island", "STATE" : "ANDAMAN AND NICOBAR", "BOARD" : "CBSE" }
{ "_id" : ObjectId("60b08524be613b28981ebebd"), "SCHOOLNAME" : "Blair International school", "STATE" : "ANDAMAN AND NICOBAR", "BOARD" : "IB" }
{ "_id" : ObjectId("60b08524be613b28981ebbbe"), "SCHOOLNAME" : "Vijayavani Residential School ICSE CHITTOOR Andhra Pradesh", "STATE" : "ANDHRA PRADESH" }
{ "_id" : ObjectId("60b08524be613b28981ebbef"), "SCHOOLNAME" : "Vasishta School ICSE CHITTOOR Andhra Pradesh", "STATE" : "ANDHRA PRADESH" }
```

For the list of schools and in which state are available for ICSE BOARD:

COMMAND: db.school_list_data.find({BOARD:"IGCSE"})



```
C:\Program Files\MongoDB\Server\4.4\bin\mongo.exe
{
  "ANDHRA PRADESH", "BOARD" : "ICSE" }
{ "_id" : ObjectId("60b08524be613b28981ebcd2"), "SCHOOLNAME" : "Adarsh Public School Vinayak Nagar Pedagantyuda - Andhra Pradesh", "STATE" : "ANDHRA PRADESH", "BOARD" : "ICSE" }
{ "_id" : ObjectId("60b08524be613b28981ebcd3"), "SCHOOLNAME" : "Air Force School Air Force Academy Hyderabad - Andhra Pradesh", "STATE" : "ANDHRA PRADESH", "BOARD" : "ICSE" }
Type "it" for more
MongoDB Enterprise > db.school_list_data.find({BOARD:"IGCSE"})
{
  "_id" : ObjectId("60b08524be613b28981ecc3a"), "SCHOOLNAME" : "Akshara International School- Kakinada", "STATE" : "ANDHRA PRADESH", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc3b"), "SCHOOLNAME" : "Greenfield International School - Kakinada", "STATE" : "ANDHRA PRADESH", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc3c"), "SCHOOLNAME" : "Oakridge International School - Visakhapatnam", "STATE" : "ANDHRA PRADESH", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc3d"), "SCHOOLNAME" : "Ark International School, Begusarai", "STATE" : "BIHAR", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc3e"), "SCHOOLNAME" : "The British School, New Delhi", "STATE" : "DELHI", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc3f"), "SCHOOLNAME" : "German School New Delhi", "STATE" : "DELHI", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc40"), "SCHOOLNAME" : "Japanese School New Delhi", "STATE" : "DELHI", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc41"), "SCHOOLNAME" : "Lycée Français de Delhi", "STATE" : "DELHI", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc42"), "SCHOOLNAME" : "Russian Embassy School in Delhi", "STATE" : "DELHI", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc43"), "SCHOOLNAME" : "American Embassy School", "STATE" : "DELHI", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc44"), "SCHOOLNAME" : "Amity International School", "STATE" : "DELHI", "BOARD" : "IGCSE" }
{
  "_id" : ObjectId("60b08524be613b28981ecc45"), "SCHOOLNAME" : "The Mother's International School", "STATE" : "DELHI", "BOARD" : "IGCSE" }
```

CHAPTER 5

APPENDIX (ONLY NOSQL CODE)

Front-end (HTML) – file homepage.html

```
<html>
  <head>
    <title>SMS SCHOOLS LIST</title>
    <style>

      .n{
        text-align: center;
      }
      .navi{
        padding: right 1px; ;
        color: black;
        text-decoration: none;
      }
      .he{
        text-align:center;
      }

      a{
        font-size: larger;
      }
      a:hover{
        background-color:violet;
        text-decoration: none;

      }
      .j{
        text-align: center;
      }
      .mohan{
        background-color: rgb(233, 222, 202);
      }
      .gm{
        background-color: greenyellow;
        color: black;

      }

    </style>
  </head>
  <body>
    <div class="n">
      <h1>SMS SCHOOLS LIST</h1>
      <ul>
        <li><a href="#">Home</a></li>
        <li><a href="#">About Us</a></li>
        <li><a href="#">Our Schools</a></li>
        <li><a href="#">Contact Us</a></li>
      </ul>
    </div>
    <div class="he">
      <h2>Our Schools</h2>
    </div>
    <div class="j">
      <table border="1">
        <thead>
          <tr>
            <th>School Name</th>
            <th>Address</th>
            <th>Phone No</th>
            <th>Email ID</th>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td>Sri Mohan Public School</td>
            <td>Opposite to KFC, Sector 12</td>
            <td>0123456789</td>
            <td>mohan@gmail.com</td>
          </tr>
          <tr>
            <td>Sri Gurukul Public School</td>
            <td>Opposite to KFC, Sector 12</td>
            <td>0123456789</td>
            <td>gurukul@gmail.com</td>
          </tr>
        </tbody>
      </table>
    </div>
  </body>
</html>
```

```

        </style>

</head>
<body>

    <header class="h">
        <div>
            <br>
        </div>

        <div class="j">
            <h1> ALL INDIA SCHOOLS LIST </h1><br>
        </div>
    </header>

    <nav class="n">
        <form action="#" method="POST">

            <b><h1> CHOOSE YOUR BOARD :</h1></b>
            <a href="srujan.php" target="body" class="navi" id='a1'>Board-
ICSE</a> |
            <a href="cbse.php" target="body" class="navi" id='a2'>BoCBSE</a> |
            <a href="ib.php" target="body" class="navi" id='a3'>IB</a> |
            <a href="igcse.php" target="body" class="navi" id='a4'>IGCSE</a> |
            <a href="nios.php" target="body" class="navi" id='a5'>NIOS</a> </h1>

        </form>
    </nav>
    <br>
    <hr>
    <hr>
    <form method="#" method="POST">
        <h1 class="he">Admin Page for SMS-HOOLS LIST</h1>
        <h4>For Inserting values into the table hit on the insert option And dis-
playing records </h4>
        <a href="INSERT.html".html" target="body" class ="navi"><b>Insert</b></a>
    >
        <br>
        <h4>For Updating values in the table hit on the Update option </h4>
        <a href="update.html" target="body" class ="navi"><b>Update</b></a>
        <br>
        <h4>For Deleting values from the table hit on the Delete option </h4>
        <a href="del.html"target="body" class ="navi"><b>Delete</b></a>
        <br>
        <br>

```

```

        </form>

        <iframe name="body" width=100% height=500px class="mohan"></iframe>
<footer class="gm">

    <b> Any Additional queries: <b></b><br>
    Email: <br>
    Mohan(mohan@gmail.com)<br>
    Srujan(srujanbannu@gmail.com)<br>
    Swetha(swetha@gmail.com)

</footer>
</body>
</html>

```

Front-end (HTML) – file Update.html

```

<html>
<head>
<title>
    Data Updation Form
</title>
<style>
body{
    display: flex;
    align-items: center;
    justify-content: center;
    min-height: 100vh;
    background:rgb(133, 116, 93);
    padding: 0 10px;
}
form{
    background:yellowgreen;
    margin:10px;
    border:2px solid black;
    border-radius:10px;
    padding:10px;
    width:400px;
    height:460px;
    text-align: center;
    box-shadow: 0 0 128px 0 rgba(0,0,0,0.1),
                0 32px 64px -48px rgba(0,0,0,0.5);
}

```

```

header{
    font-size: 25px;
    font-weight: 600;
    padding-bottom: 6px;
    border-bottom: 1px solid #e6e6e6;
    background:rgb(223, 151, 19);
    border-radius:5px;
    padding:5px;
    text-align: center;
}

</style>
</head>
<body>
    <form method="POST" action="update.php">
        <header>Update the Record</header>
        <br>
        <br>
        <div>
            <label>STATE :</label> <input type="text" name="a" placeholder="Enter the state name.">
        </div>
        <br>
        <div>
            <label>School name:</label> <input type="text" name="b" placeholder="Enter School name.">
        </div>
        <br>
        <div>
            <label>BOARD :</label> <input type="text" name="c" placeholder="Enter your board">
        </div>
        <br>

        <input type="submit" value="Update">
        <br>
    </form>
</body>
</html>

```

Front-end (php) - cbse.php

```
<?php
    require_once __DIR__ . '/vendor/autoload.php';

$connection= new MongoDB\Client("mongodb://localhost:27017");
$db=$connection->schools_list;
$table=$db->school_list_data;
echo "<table border = '1'><th>STATE</th><th>SCHOOL Name</th><th>BOARD</th>";
$criteria = array("BOARD" => "CBSE");
$data_info=$table->find($criteria);
$count=0;
echo "<tr>";
foreach($data_info as $b)
{
    $count++;
    echo "<td>" . $b['STATE']. "</td>";
    echo "<td>" . $b['SCHOOLNAME']. "</td>";
    echo "<td>" . $b['BOARD']. "</td>";
    echo "</tr>";
}
?>
```

Front-end (php) - icse.php

```
<?php
    require_once __DIR__ . '/vendor/autoload.php';

$connection= new MongoDB\Client("mongodb://localhost:27017");
$db=$connection->schools_list;
$table=$db->school_list_data;
echo "<table border = '1'><th>STATE</th><th>SCHOOL Name</th><th>BOARD</th>";
$criteria = array("BOARD" => "ICSE");
$data_info=$table->find($criteria);
$count=0;
echo "<tr>";
foreach($data_info as $b)
{
    $count++;
    echo "<td>" . $b['STATE']. "</td>";
    echo "<td>" . $b['SCHOOLNAME']. "</td>";
    echo "<td>" . $b['BOARD']. "</td>";
    echo "</tr>";
}
?>
```

Front-end (php) - nios.php

```
<?php
    require_once __DIR__ . '/vendor/autoload.php';

$connection= new MongoDB\Client("mongodb://localhost:27017");
$db=$connection->schools_list;
$table=$db->school_list_data;
echo "<table border = '1'><th>STATE</th><th>SCHOOL Name</th><th>BOARD</th>";
$criteria = array("BOARD" => "NIOS");
$data_info=$table->find($criteria);
$count=0;
echo "<tr>";
foreach($data_info as $b)
{
    $count++;
    echo "<td>" . $b['STATE']. "</td>";
    echo "<td>" . $b['SCHOOLNAME']. "</td>";
    echo "<td>" . $b['BOARD']. "</td>";
    echo "</tr>";
}
?>
```

Front-end (php) - igcse.php

```
<?php
    require_once __DIR__ . '/vendor/autoload.php';

$connection= new MongoDB\Client("mongodb://localhost:27017");
$db=$connection->schools_list;
$table=$db->school_list_data;
echo "<table border = '1'><th>STATE</th><th>SCHOOL Name</th><th>BOARD</th>";
$criteria = array("BOARD" => "IGCSE");
$data_info=$table->find($criteria);
$count=0;
echo "<tr>";
foreach($data_info as $b)
{
    $count++;
    echo "<td>" . $b['STATE']. "</td>";
    echo "<td>" . $b['SCHOOLNAME']. "</td>";
    echo "<td>" . $b['BOARD']. "</td>";
    echo "</tr>";
}
?>
```

Front-end (php) - ib.php

```
<?php
    require_once __DIR__ . '/vendor/autoload.php';

$connection= new MongoDB\Client("mongodb://localhost:27017");
$db=$connection->schools_list;
$table=$db->school_list_data;
echo "<table border = '1'><th>STATE</th><th>SCHOOL Name</th><th>BOARD</th>";
$criteria = array("BOARD" => "IB");
$data_info=$table->find($criteria);
$count=0;
echo "<tr>";
foreach($data_info as $b)
{
    $count++;
    echo "<td>" . $b['STATE']. "</td>";
    echo "<td>" . $b['SCHOOLNAME']. "</td>";
    echo "<td>" . $b['BOARD']. "</td>";
    echo "</tr>";
}
?>
```

CHAPTER 6

REFERENCES

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