INDIANS SCHOOLS LIST SYSTEM

A PROJECT REPORT

Submitted for

CSE3009 – NoSQL Databases

by

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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).
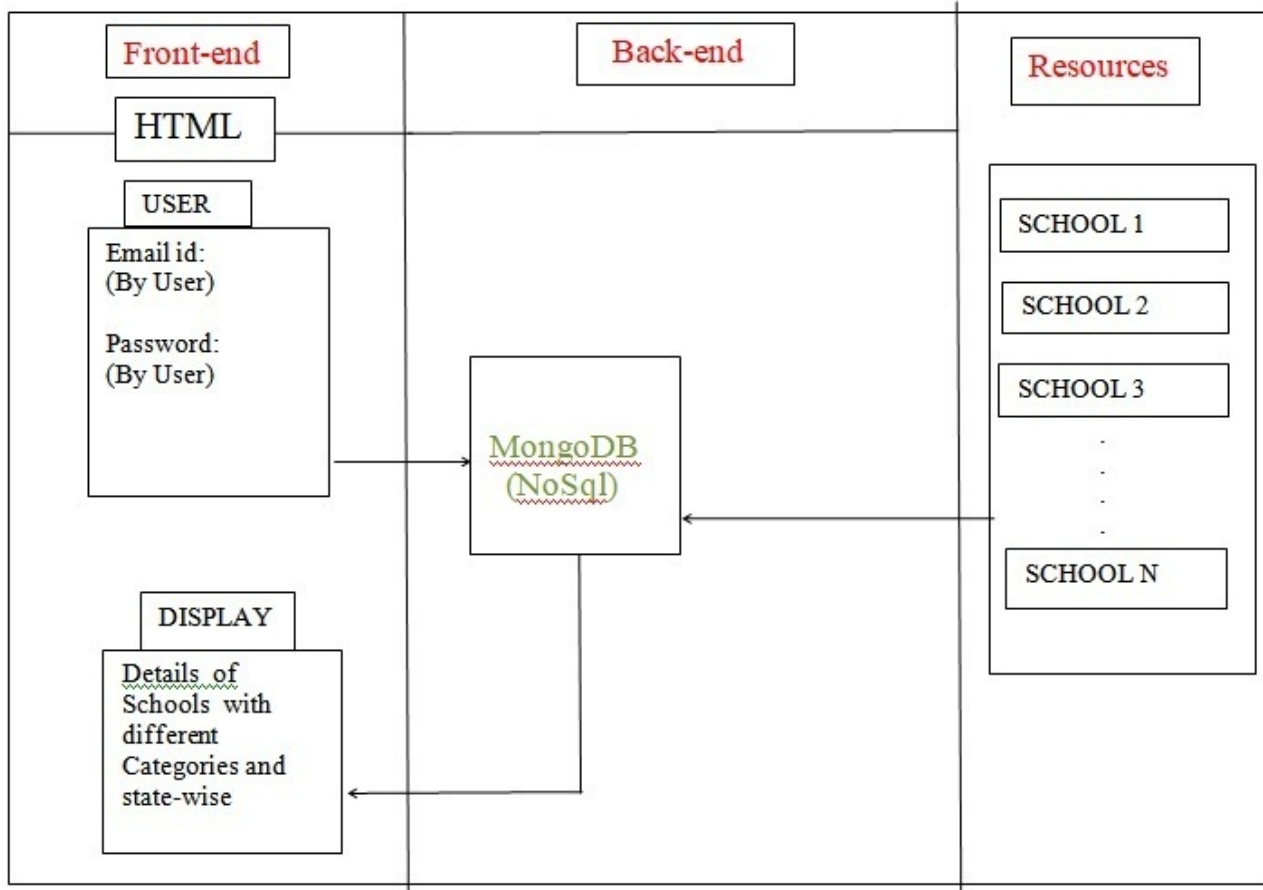
CHAPTER 2

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.
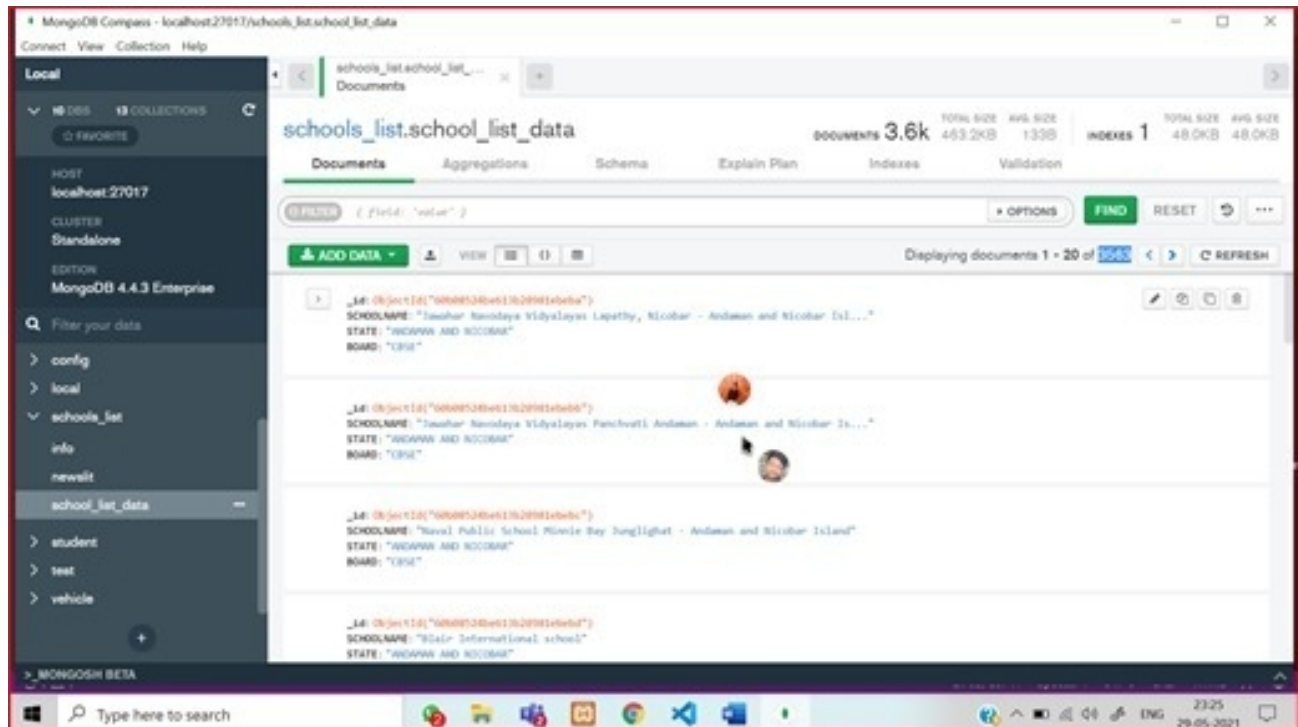
CHAPTER 3

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.
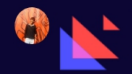
Output:

Database :

Main Page:

When we select ICSE

board:

SMS SCHOOLS LIST
CHOOSE HERE FOR BRIGHT FUTURE

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	Paramjyoti 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 Sathya Sai Gurukulam E.m. 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 Sai 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.r's Gowtham International School	ICSE
ANDHRA PRADESH	> Foundation International School	ICSE
ANDHRA PRADESH	> Fusion International School	ICSE

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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	Jamnabai 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	Sanskriti 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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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:

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

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

```
 : "ANDHRA PRADESH", "BOARD" : "ICSE" }
{ "_id" : ObjectId("60b08524be613b28981ebed2"), "SCHOOLNAME" : "Adarsh Public School Vinayak Nagar Pedagantyuda - Andhra
 Pradesh", "STATE" : "ANDHRA PRADESH", "BOARD" : "ICSE" }
{ "_id" : ObjectId("60b08524be613b28981ebed3"), "SCHOOLNAME" : "Air Force School Air Force Academy Hyderabad - Andhra Pr
adesh", "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" : "ANDH
RA 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", "BOAR
D" : "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", "BO
ARD" : "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", "
```

CHAPTER 5

APPENDIX (ONLY NOSQL CODE)

Front-end (HTML) – file srujan.html

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

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

                a:hover{
                    background-color:violet;
                    text-decoration: none;

                }
                .j{
                    padding: 0.1px;
                    text-align: center;
                }
                .mohan{
                    background-color: rgb(233, 222, 202);
                }
                .gm{
                    background-color: greenyellow;
                    color: black;

                }


        </style>

    </head>
    <body>

        <header class="h">
```

```html
        <div>
            <img src="logo.png" width="225px" height="150px"  style="float: left;
" ><br>
        </div>

        <div class="j">
          <h1>  ALL INDIA SCHOOLS LIST </h1><br>
        </div>
    </header>
    <br>
    <nav class="n">
        <form action="#" method="POST">
            <b> CHOOSE YOUR BOARD :</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>

        </form>
    </nav>
    <br>

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

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

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

Front-end (php) - cbse.php

```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
<?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
<?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
<?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
<?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

1. https://stackoverflow.com/questions/25589113/how-to-select-a-single-field-for-all-documents-in-a-mongodb-collection#:~:text=From%20the%20MongoDB%20docs%3A,return%20in%20the%20matching%20documents.

2. https://www.youtube.com/watch?v=hEU8Ccck1Qc&t=630s

3. https://www.youtube.com/watch?v=XNVA1-kfNnI&t=271s

4. http://www.cbseguide.co.in/schools/cbse-schools-rajasthan.php

5. http://www.studyguideindia.com/Schools/schools-andhra-pradesh-ap.html

6. https://www.mongodb.com/try/download/community

7. https://www.youtube.com/watch?v=cvgxzKFrdVY