

# Learning Portal for Children

## A PROJECT REPORT

Submitted for the course: Internet and Web Programming (CSE3002)

By

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**(SCHOOL OF COMPUTER SCIENCE AND ENGINEERING)**



**VIT<sup>®</sup>**  
**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)

**JUNE 2021**

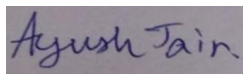
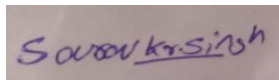
## CERTIFICATE

This is to certify that the project work entitled "*Learning Portal for Children*" that is being submitted by "**Saurav Kumar Singh (18BCE2213)** and **Ayush Jain (18BCE2245)**" for Internet and Web Programming (CSE3002) is a record of bonafide work done under my supervision. The contents of this Project work, in full or in parts, have neither been taken from any other source nor have been submitted for any other CAL course.

Place: Vellore

Date: 6<sup>th</sup> JUNE, 2021

Signature of Student:



Signature of  
Prof. Malathy. E

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# 1.Abstract

This Project is made for children who are in the age group of 5-12. We are making a website to help these children reach their development milestone. We will help these children by providing them fantastic learning experience through lots of cool resources like:-

1.Learning

2.Music

3.Video and many more.

We are trying for the overall development of these kids.We will be working on developing several learning facilities like interactive quiz, notes, and music therapy for their mental wellbeing.

A good foundation in the early years makes a difference through adulthood and even gives the next generation a better start. Educated and healthy people participate in, and contribute to, the financial and social wealth of their societies.

During the current situation of pandemic, their learning system has been affected, so by several online meeting their learning may not help, in that case, this website will help overcome these problems.

## 2.Introduction

### a. Problem Statement

Our problem statement is to make a learning website for children who are in the age group of 5-12. We are making a website to help these children reach their development milestone. We will help these children by providing them fantastic learning experience through lots of cool resources like:-

1.Learning

2.Music

3.Video and many more.

We are trying for the overall development of these kids. We will be working on developing several learning facilities like interactive quiz, notes, and music therapy for their mental wellbeing.

A good foundation in the early years makes a difference through adulthood and even gives the next generation a better start. Educated and healthy people participate in, and contribute to, the financial and social wealth of their societies.

During the current situation of pandemic, their learning system has been affected, so by several online meeting their learning may not help, in that case, this website will help overcome these problems. Our users can use our website in different ways

1) Children:

The children can use our site to learn different subjects with the help of notes or watch videos, give quiz, enjoy the music therapy and watch inspiring videos.

2) Parents/Teachers:

The parents can use this site to learn about the latest news, understand the teaching guidelines to teach their child offline and can also use it to help kids who find it difficult to use the website or use it to assign them a particular task, like giving a quiz.

## b) Technical specification

### i) Front-End Development Languages

- HTML: Page layout has been designed in HTML which is embedded with PHP tags.
- CSS: CSS has been used for all the designing part with the help of special classes from bootstrap.
- JavaScript: All the validation task and animations has been developed by JavaScript eg: We have used javascript libraries both for validation as well as animation.

### ii) Server-Side Programming

- Web Server (XAMPP server)
- PHP: All the logic and connectivity of modules with database MYSQL has been implemented in PHP.
- MYSQL: MYSQL database has been used as database for the project



### **3. Existing System problems**

Before we started working on our project, we wanted to ask the future users of our website:

Q1.What are the problems with the existing website?

Q2.What things should be added to make it more useful?

That's why we conducted a survey in which we asked design and content related questions to understand what the users want. By doing this survey we understood what modules we need to add in our learning portal and the designs we have to change.

What things can be done to improve these learning portal? \*

Your answer

Music can be relaxing, spark certain feelings and increase quality of life.If used in the correct way, music can make your life better.What is the importance of Music Therapy? \*

Your answer

Why is it important for a child to be motivated and inspired? \*

Your answer

Is it difficult to find a learning portal with proper notes and videos? \*

☐ Yes

☐ no

Why is it important to have different levels of quiz in the learning portal? \*

Your answer

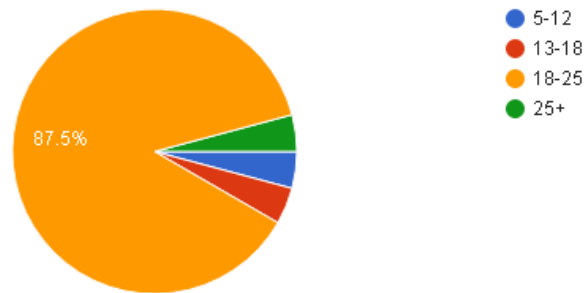
How do Audio Books help kids who struggle in reading? \*

Your answer

Fig 3.1 Our Survey

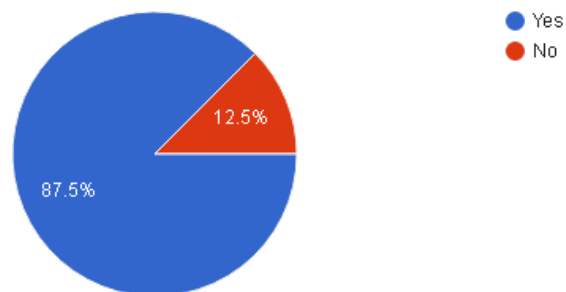
What's your age group?

24 responses



Do you think the pandemic situation is affecting the learning system of kids?

24 responses



What things can be done to improve these learning portal?

24 responses

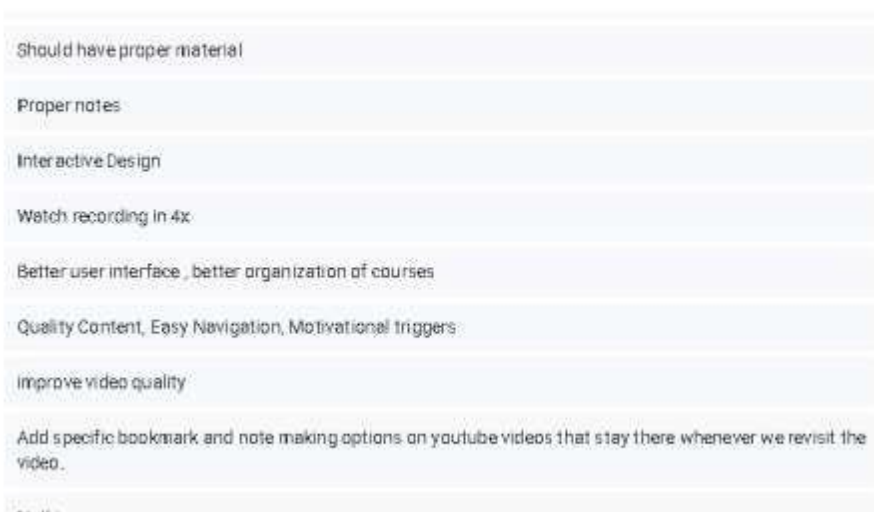


Fig3.2 Response from our Survey

After doing the survey, we understood that there are many problems with the existing system and they need a proper solution. Here, we will be sharing you the problems with the existing system and how we plan to solve them.

1) No websites for Special Children:

- None of these sites focus or give importance to the children with special needs. That's why we will make a website from which these children can learn properly.

2) Bad Usability:

- Most of these websites are not well designed and many people find it difficult to use them. By making the most of the data collected from the user through feedback, we will make the best system best for their use and it will also help us in improving the system performance and outlook.

3) No Music:

- None of these websites give importance to the music therapy which is really good for the mental wellbeing for kids who get stressed.

4) No Relevant Content:

- Most of these websites don't have up to date material. We will be closely monitoring the content and update it after every month and will provide all types of content, be it notes or videos.

5) No Audiobooks:

- None of these learning portal provide Audiobooks. These Audio Books allow students to hear explicit sounds of letters and letter patterns that form words. Audiobooks also help students engage in text and gain exposure to more words, ultimately improving vocabulary, comprehension and critical thinking skills. This is very useful for the children.

6) No chance to Improve:

- None of these sites provide difficulty levels in their quiz. Difficulty in quiz(s) are important so that you can understand how much you have learned and where you can improve. We will be providing difficulty levels in the quiz.

## 7) News and Teaching guidelines:

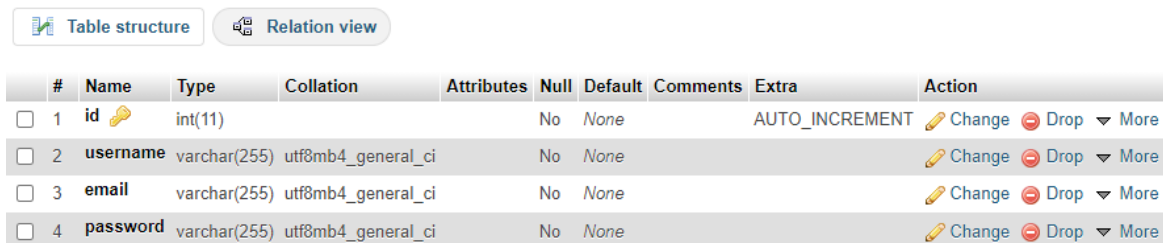
- None of these learning websites provide their users with the latest news about the subjects and teaching guidelines for the teachers/parents. We will be updating them with the latest news regarding the subjects or new policies. We believe that for the overall development of the children, we would need teachers/parents help. That's why we will be providing them with teaching guidelines which they can use during offline learning.

## 4. Proposed System Design

### a) Mysql Table Structure

#### i) User Table

- Register login in main website

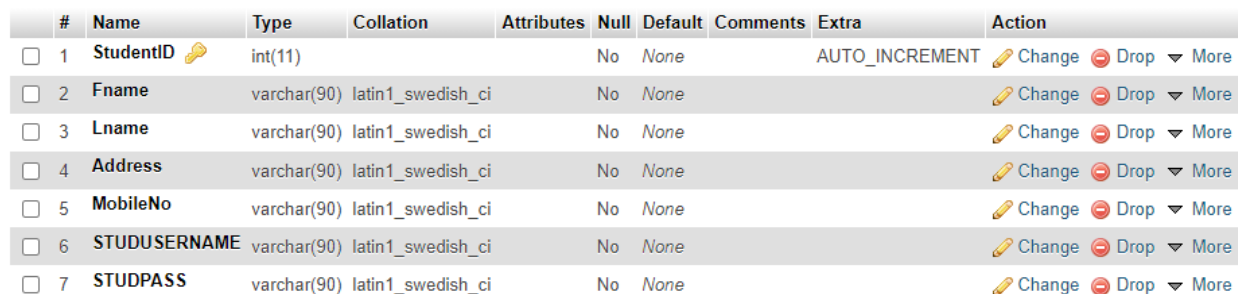


The screenshot shows the MySQL Table structure for the 'User' table. It includes columns for #, Name, Type, Collation, Attributes, Null, Default, Comments, Extra, and Action. The columns are: id (int(11), AUTO\_INCREMENT), username (varchar(255), utf8mb4\_general\_ci), email (varchar(255), utf8mb4\_general\_ci), and password (varchar(255), utf8mb4\_general\_ci). Each row has a checkbox, a pencil icon for 'Change', a red circle with a minus sign for 'Drop', and a downward arrow for 'More'.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	id	int(11)		No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2	username	varchar(255)	utf8mb4_general_ci	No	None			Change  Drop  More
<input type="checkbox"/>	3	email	varchar(255)	utf8mb4_general_ci	No	None			Change  Drop  More
<input type="checkbox"/>	4	password	varchar(255)	utf8mb4_general_ci	No	None			Change  Drop  More

Fig4.1) Register login in main website

#### ii) Student register in Online course



The screenshot shows the MySQL Table structure for the 'Student register in Online course' table. It includes columns for #, Name, Type, Collation, Attributes, Null, Default, Comments, Extra, and Action. The columns are: StudentID (int(11), AUTO\_INCREMENT), Fname (varchar(90), latin1\_swedish\_ci), Lname (varchar(90), latin1\_swedish\_ci), Address (varchar(90), latin1\_swedish\_ci), MobileNo (varchar(90), latin1\_swedish\_ci), STUDUSERNAME (varchar(90), latin1\_swedish\_ci), and STUDPASS (varchar(90), latin1\_swedish\_ci). Each row has a checkbox, a pencil icon for 'Change', a red circle with a minus sign for 'Drop', and a downward arrow for 'More'.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	StudentID	int(11)		No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2	Fname	varchar(90)	latin1_swedish_ci	No	None			Change  Drop  More
<input type="checkbox"/>	3	Lname	varchar(90)	latin1_swedish_ci	No	None			Change  Drop  More
<input type="checkbox"/>	4	Address	varchar(90)	latin1_swedish_ci	No	None			Change  Drop  More
<input type="checkbox"/>	5	MobileNo	varchar(90)	latin1_swedish_ci	No	None			Change  Drop  More
<input type="checkbox"/>	6	STUDUSERNAME	varchar(90)	latin1_swedish_ci	No	None			Change  Drop  More
<input type="checkbox"/>	7	STUDPASS	varchar(90)	latin1_swedish_ci	No	None			Change  Drop  More

Fig4.2) Student register in Online course

#### iii) Teacher in Online course

- Teacher login

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	<b>USERID</b>	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/> 2	<b>NAME</b>	varchar(90)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 3	<b>UEMAIL</b>	varchar(90)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 4	<b>PASS</b>	varchar(90)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 5	<b>TYPE</b>	varchar(30)	latin1_swedish_ci		No	None			Change  Drop  More

Fig4.3) Teacher login

- Number of user table in Online course

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	<b>AUTOID</b>	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/> 2	<b>AUTOSTART</b>	varchar(30)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 3	<b>AUTOEND</b>	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 4	<b>AUTOINC</b>	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 5	<b>AUTOKEY</b>	varchar(30)	latin1_swedish_ci		No	None			Change  Drop  More

Fig4.4) Number of user table in Online course

- Teacher file upload

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	<b>LessonID</b>	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/> 2	<b>LessonChapter</b>	varchar(90)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 3	<b>LessonTitle</b>	varchar(90)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 4	<b>FileLocation</b>	text	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 5	<b>Category</b>	varchar(90)	latin1_swedish_ci		No	None			Change  Drop  More

Fig4.5) Teacher file upload

- Teacher giving exercise

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	<b>ExerciselD</b>	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/> 2	<b>LessonID</b>	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 3	<b>Question</b>	text	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 4	<b>ChoiceA</b>	text	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 5	<b>ChoiceB</b>	text	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 6	<b>ChoiceC</b>	text	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 7	<b>ChoiceD</b>	text	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 8	<b>Answer</b>	varchar(90)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 9	<b>ExercisesDate</b>	date			No	None			Change  Drop  More

Fig4.6) Teacher giving exercise

- Student exercise score

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	ScoreID	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/> 2	LessonID	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 3	ExerciseID	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 4	StudentID	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 5	NoItems	int(11)			No	1			Change  Drop  More
<input type="checkbox"/> 6	Score	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 7	Submitted	tinyint(1)			No	None			Change  Drop  More

Fig4.7) Student exercise score

b) UML diagrams of the Proposed System

- Architecture diagram

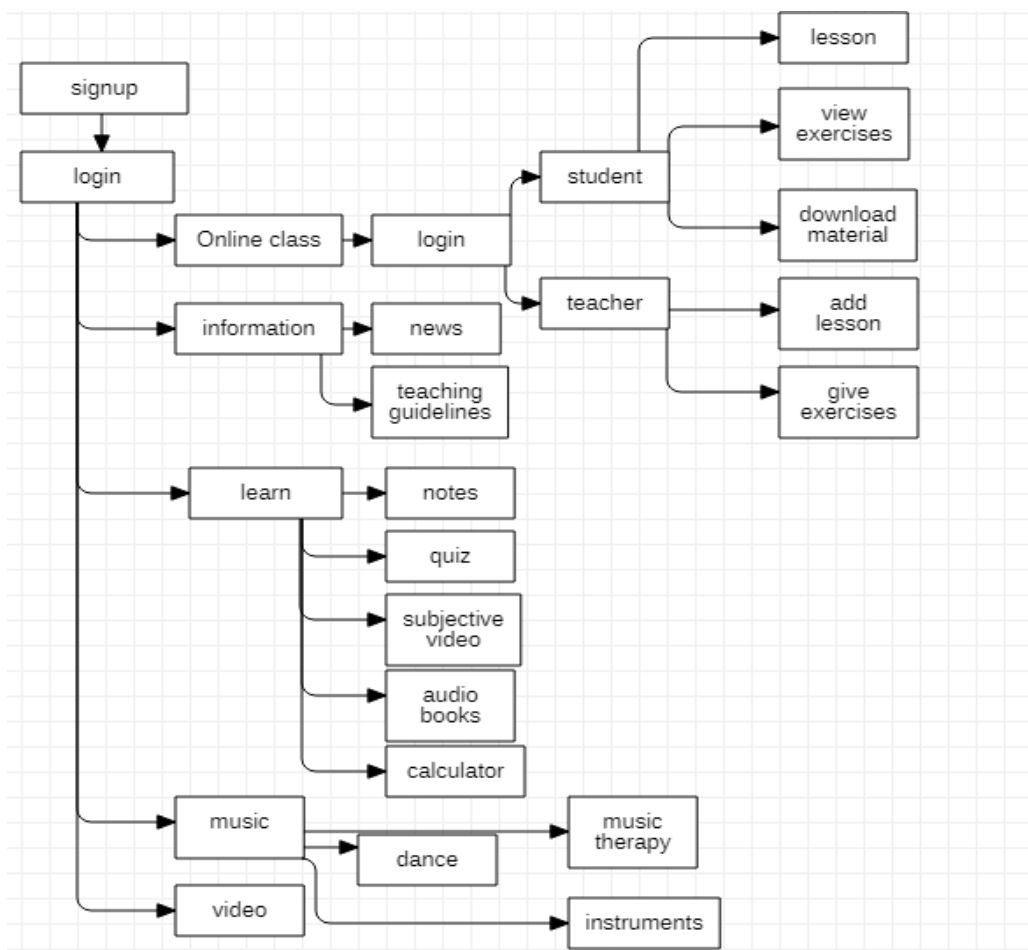


Fig 4.8 architecture diagram

- Work breakdown structure

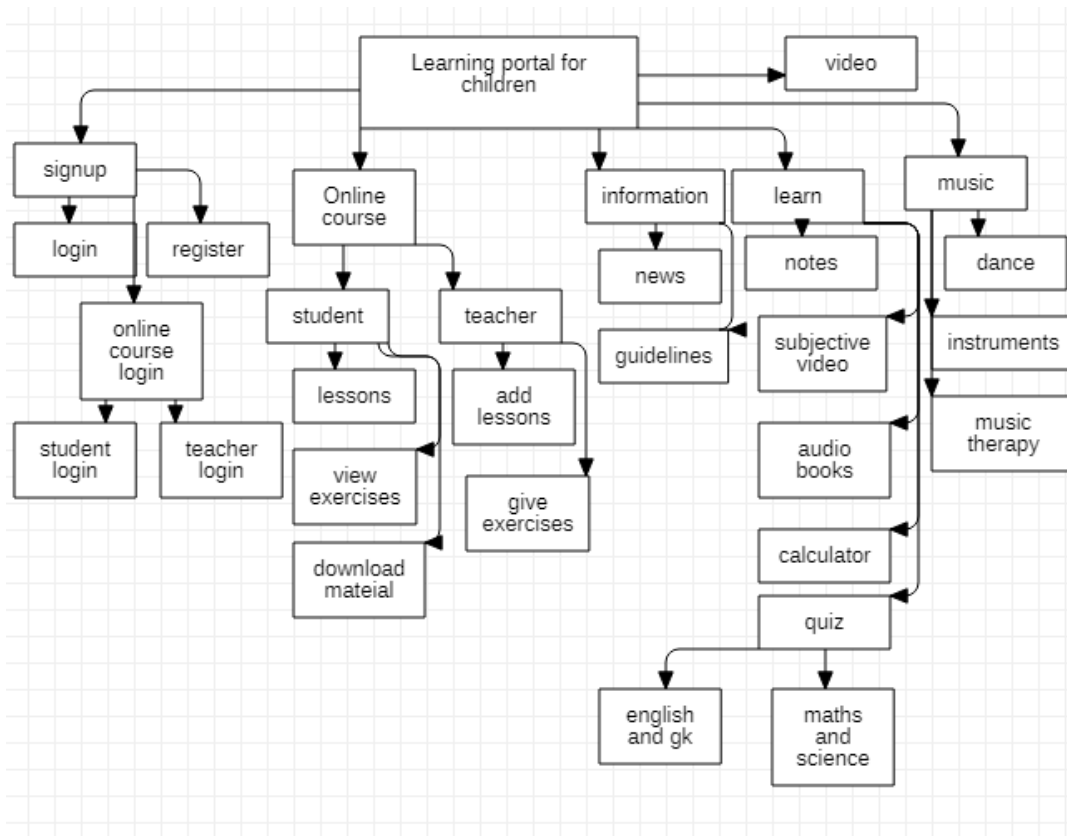


Fig 4.9 work breakdown structure

### c) Psuedocode

#### i) user register

```

include config.php (it has connection with mysql)
start session
checks seesion and goes to index.php (login page)
if(isset($_POST['submit']))

    get username from form
    get email from form
    get password from form(convert in md5)
    get confirm password from form(convert in md5)

    if(password==confirm password)
        sql=select * from users where email='email'
        result=mysqli_query(conn,sql);
        if(!$result->num_rows > 0)
  
```



```

        $sql = "INSERT INTO users (username, email, password) VALUES ('$username',
'$email', '$password')";
        result = mysqli_query(conn, sql);
        if ($result) {
            echo "<script>alert('Wow! User Registration Completed.*)</script>"
            username = "";
            email = "";
            _POST['password'] = "";
            _POST['cpassword'] = "";
        }
        else
            echo "<script>alert('Woops! Something Wrong Went.*)</script>"
    else
        echo "<script>alert('Woops! Email Already Exists.*)</script>";

else
    echo "<script>alert('Password Not Matched.*)</script>";

<html>
<body>
<div class="container">
    <form action="" method="POST" class="login-email">
    <p class="login-text" style="font-size: 2rem; font-weight: 800;">Register</p>
        <div class="input-group">
            Enter username
        </div>
        <div class="input-group">
            Enter email
        </div>
        <div class="input-group">
            Enter password
        </div>
        <div class="input-group">
            Enter confirm password
        </div>
        <div class="input-group">
            Register button
        </div>
        If you are already member click here
    </form>
</div>
</body>
</html>

```

## ii) user login

```
include config.php (it has connection with mysql)
start session
checks session and goes to welcome.php (login page)
if(isset($_POST['submit']))

    get email from form
    get password from form(convert in md5)
    sql=select * from users where email='email' and password='password'
    result=mysqli_query(conn,$sql);

    if(!$result->num_rows > 0)
        row = mysqli_fetch_assoc(result);
        $_SESSION['username'] = $row['username'];
        header("Location: spark-master/index.html");
    else
        echo "<script>alert('Woops! Email or Password is Wrong.*)</script>";

<html>
<body>
<div class="container">
    <form action="" method="POST" class="login-email">

        <div class="input-group">
            Enter email
        </div>
        <div class="input-group">
            Enter password
        </div>
        <div class="input-group">
            Register button
        </div>
        If you are not member then register click here
    </form>
</div>
<body>
<html>
```

### iii) Student register in Online course

include initialize.php (it is connected to all other parts)

start session

checks session and goes to index.php

```
<html>
```

All the links are added

```
<div class="page-wrapper bg-blue p-t-100 p-b-100 font-robo">
```

```
<div class="wrapper wrapper--w680">
```

```
<div class="card card-1">
```

```
<div class="card-heading"></div>
```

```
<div class="card-body">
```

```
<h2 class="title">Registration Info</h2>
```

```
<form method="POST" action="register.php">
```

```
<div class="input-group">
```

```
<input class="input--style-1" type="text" placeholder="Firstname" name="FNAME">
```

```
</div>
```

```
<div class="input-group">
```

```
<input class="input--style-1" type="text" placeholder="Lastname" name="LNAME">
```

```
</div>
```

```
<div class="input-group">
```

```
<input class="input--style-1" type="text" placeholder="Address" name="ADDRESS">
```

```
</div>
```

```
<div class="input-group">
```

```
<input class="input--style-1" type="number" placeholder="Phone" name="PHONE">
```

```
</div>
```

```
<div class="input-group">
```

```
<input class="input--style-1" type="text" placeholder="Username" name="USERNAME">
```

```
</div>
```

```
<div class="input-group">
```

```
<input class="input--style-1" type="password" placeholder="Password" name="PASS">
```

```
</div>
```

```
<div class="p-t-20">
```

```
<button class="btn btn--radius btn--green" type="submit" name="btnRegister">Submit</button>
```

```
<a href="login.php">Back to Login</a>
```

```
<html>
```

#### iv) Student login in Online course

include initialize.php (it is connected to all other parts)

start session

checks session and goes to index.php

```
<html>
```

All the links are added

```
<body>
```

```
<div class="limiter">
```

```
<div class="container-login100">
```

```
<?php check_message(); ?>
```

```
<div class="wrap-login100">
```

```
<div class="login100-pic js-tilt" data-tilt>
```

```

```

```
</div>
```

```
<form class="login100-form validate-form" action="" method="POST">
```

```
<span class="login100-form-title">
```

Member Login

```
</span>
```

```
<div class="wrap-input100 validate-input" >
```

```
<input class="input100" type="text" name="user_email" placeholder="Username">
```

```
<span class="focus-input100"></span>
```

```
<span class="symbol-input100">
```

```
<i class="fa fa-user" aria-hidden="true"></i>
```

```
</span>
```

```
</div>
```

```
<div class="wrap-input100 validate-input" data-validate = "Password is required">
```

```
<input class="input100" type="password" name="user_pass" placeholder="Password">
```

```
<span class="focus-input100"></span>
```

```
<span class="symbol-input100">
```

```
<i class="fa fa-lock" aria-hidden="true"></i>
```

```
</span>
```

```
</div>
```

```
<div class="container-login100-form-btn">
```

```
<button class="login100-form-btn" type="submit" name="btnLogin">
```

Login

```
</button>
```

```
</div>
```

```
<div class="text-center p-t-136">
```

```

<a class="txt2" href="register.php">
    Create your Account
    <i class="fa fa-long-arrow-right m-l-5" aria-hidden="true"></i>

```

```
<html>
```

```

if(isset($_POST['btnLogin'])){
    $email = trim($_POST['user_email']);
    $upass = trim($_POST['user_pass']);
    $h_upass = sha1($upass);

    if ($email == " OR $upass == ")

        message("Invalid Username and Password!", "error");
        redirect (web_root."login.php");

    else
        //it creates a new objects of member
        $student = new Student();
        //make use of the static function, and we passed to parameters
        $res = $student::studentAuthentication($email, $h_upass);
        if ($res==true)
            // redirect(web_root."index.php");

            echo $_SESSION['StudentID'];
        else
            message("Account does not exist! Please contact Administrator.", "error");
            redirect (web_root."login.php");

```

#### v) Teacher login in Online course

include initialize.php (it is connected to all other parts)  
checks session and goes to index.php

```
<html>
```

All the links are added

```
<body>
```

```

<div class="limiter">
    <div class="container-login100">
        <div class="wrap-login100 p-l-85 p-r-85 p-t-55 p-b-55">
            <form class="login100-form validate-form flex-sb flex-w" method="POST"
action="login.php">
                <span class="login100-form-title p-b-32">

```

```

        Account Login
    </span>

    <span class="txt1 p-b-11">
        Username
    </span>
    <div class="wrap-input100 validate-input m-b-36" data-validate = "Username is
required">
        <input class="input100" type="text" name="user_email" >
        <span class="focus-input100"></span>
    </div>

    <span class="txt1 p-b-11">
        Password
    </span>
    <div class="wrap-input100 validate-input m-b-12" data-validate = "Password is required">
        <span class="btn-show-pass">
            <i class="fa fa-eye"></i>
        </span>
        <input class="input100" type="password" name="user_pass" >
        <span class="focus-input100"></span>
    </div>

    <div class="flex-sb-m w-full p-b-48">
        <div class="contact100-form-checkbox">
            <input class="input-checkbox100" id="ckb1" type="checkbox" name="remember-me">
            <label class="label-checkbox100" for="ckb1">
                Remember me
            </label>
        </div>

        <div>
            <a href="#" class="txt3">
                Forgot Password?
            </a>
        </div>
    </div>

    <div class="container-login100-form-btn">
        <button type="submit" class="login100-form-btn" name="btnLogin">
            Login
    </div>
</body>

</html>

```

```
<?php

if(isset($_POST['btnLogin'])){
    $email = trim($_POST['user_email']);
    $upass = trim($_POST['user_pass']);
    $h_upass = sha1($upass);

    if ($email == " OR $upass == ")

        message("Invalid Username and Password!", "error");
        redirect("login.php");

    else
    //it creates a new objects of member
    $user = new User();
    //make use of the static function, and we passed to parameters
    $res = $user::userAuthentication($email, $h_upass);
    if ($res==true)
        message("You login as ".$_SESSION['TYPE'].".", "success");
    if ($_SESSION['TYPE']=='Administrator')
        redirect(web_root."admin/index.php");
    else
        redirect(web_root."admin/login.php");
    else
        message("Account does not exist! Please contact Administrator.", "error");
        redirect(web_root."admin/login.php");
?>
```

## 5. Modules and their Description

### PROJECT MODULES

#### a) Sign up Module

- Sign-up will be done by registering then log in. password will be saved in encrypted form in database.

#### b) Online classes

- Special class is a new initiative started by our team and our mentor, Professor Malathy E to provide new courses for students each month. These classes are special because we provide the students with courses which are important and can help them in their future. We teach them those subjects which will make them think what they want to do when they become adults. On our first month, we started with our course INTERNET and WEB PROGRAMMING
- Teacher can upload all the chapters and upload files(pdf,doc,ppt all are accepted).They can always edit these files, view them, delete them and also edit the chapter, title name
- It is important to test yourself after learning something new. Teachers can provide some mcq's for the students to test themselves and check their details so that they can update their parents about there performance
- For the students, after logging in to the special class can learn all the lessons. They also get an option to download all the material and read it later

#### c) Information Module which has Updates and Teaching guidelines as sub module.

- Most of these learning portals don't provide the latest news and updates regarding education. Also for the overall development of the child, offline assistance is also needed. That's why we provide the user with the latest news and also provide with teaching guidelines which can help the parents and teachers. For ex. they can learn and then teach their child who is facing difficulty in reading after they read the teaching guidelines. Updates provide you with all the recent news and new articles while teaching guidelines provide you with different set of guidelines based on the issue the child is facing.

#### d) Learning Module which has Notes, Subjective Video, Audio Books, Calculator and Quiz as sub module.

- Most of these learning modules don't have proper teaching material. We have proper notes and proper subjective videos. After the feedback given from professor, we have added difficulty level in quiz. The quiz can be played on the subjects you have learned



and can level up the quiz if you are happy with your marks. Audio books have become a necessity for children who find it difficult to read, with the help of audio books, now they are able to improve their vocabulary and pronunciation. Since we are teaching math, we have also added a calculator so that the child can confirm his answers when parents/teachers are not near by.

e) Music Module which has 3 types of music.

- Music therapy is very important for children, it also increases their analytical thinking. We provide 3 types of music. Instrumental music to understand how instruments work, soulful music for relaxation time and for music therapy and finally some Bollywood music for kids so that they can dance and stay active, considering they cannot go out due to corona virus.

f) Video Module which has inspiring videos.

- Video module has collection of inspiring videos which will keep the kids motivated, since they can't meet their friends, they get bored and feel lonely. These inspiring videos will help them to charge up and give their 100%.

## 6. MySql Tables (as seen in PHP myadmin)

### a) Mysql Table Structure

#### i) User Table

- Register login in main website

+ Options

		id	username	email	password
<input type="checkbox"/>	Edit  Copy  Delete	3	saurov	saurovkr2017@gmail.com	f0282b5ff85e7c9c66200d780bd7e72e

Fig6.1) Register login in main website

- Student register in Online course

+ Options

		StudentID	Fname	Lname	Address	MobileNo	STUDUSERNAME	STUDPASS
<input type="checkbox"/>	Edit  Copy  Delete	1	a	a		21	a	86f7e437faa5a7fce15d1ddcb9eaeaea377667b8
<input type="checkbox"/>	Edit  Copy  Delete	2	sd	sad		231	a	a0f1490a20d0211c997b44bc357e1972deab8ae3
<input type="checkbox"/>	Edit  Copy  Delete	3	saurov	singh	House number 31,piska more,hesal, Piska more	7667702568	saurov	654cec2f0483e2f9fc7f8efb353dd3def830420b
<input type="checkbox"/>	Edit  Copy  Delete	4						654cec2f0483e2f9fc7f8efb353dd3def830420b

Fig6.2) Student register in Online course

#### ii) Teacher in Online course

##### Teacher login

+ Options

		USERID	NAME	UEMAIL	PASS	TYPE
<input type="checkbox"/>	Edit  Copy  Delete	2	saurov	saurov	654cec2f0483e2f9fc7f8efb353dd3def830420b	Administrator

Fig6.3) Teacher login

- Number of user table in Online course

+ Options

		AUTOID	AUTOSTART	AUTOEND	AUTOINC	AUTOKEY
<input type="checkbox"/>	Edit  Copy  Delete	1	02983	8	1	userid
<input type="checkbox"/>	Edit  Copy  Delete	10	000	7	1	ExerciselD
<input type="checkbox"/>	Edit  Copy  Delete	12	000	34	1	BLOGID
<input type="checkbox"/>	Edit  Copy  Delete	13	0	5	1	STUDENTID

Fig6.4) Number of user table in Online course

- Teacher file upload

+ Options						
← T →		LessonID	LessonChapter	LessonTitle	FileLocation	Category
<input type="checkbox"/>	Edit Copy Delete	8	Internet and Web programming	module 1	files/FALLSEM2020-21_CSE3002_ETH_VL2020210106410_R...	Docs
<input type="checkbox"/>	Edit Copy Delete	9	Internet and Web programming	module 2	files/FALLSEM2020-21_CSE3002_ETH_VL2020210106410_R...	Docs
<input type="checkbox"/>	Edit Copy Delete	10	Internet and Web programming	module 2	files/FALLSEM2020-21_CSE3002_ETH_VL2020210106410_R...	Docs
<input type="checkbox"/>	Edit Copy Delete	11	Internet and Web programming	module 3	files/FALLSEM2020-21_CSE3002_ETH_VL2020210106410_R...	Docs
<input type="checkbox"/>	Edit Copy Delete	12	Internet and Web programming	module 4	files/FALLSEM2020-21_CSE3002_ETH_VL2020210106410_R...	Docs
<input type="checkbox"/>	Edit Copy Delete	13	Internet and Web programming	module 5	files/FALLSEM2020-21_CSE3002_ETH_VL2020210106410_R...	Docs
<input type="checkbox"/>	Edit Copy Delete	14	Internet and Web programming	module 6	files/FALLSEM2020-21_CSE3002_ETH_VL2020210106410_R...	Docs
<input type="checkbox"/>	Edit Copy Delete	15	Internet and Web programming	module 7	files/FALLSEM2020-21_CSE3002_ETH_VL2020210106410_R...	Docs

Fig6.5) Teacher file upload

- Teacher giving exercise

+ Options										
← T →		ExerciselD	LessonID	Question	ChoiceA	ChoiceB	ChoiceC	ChoiceD	Answer	ExercisesDate
<input type="checkbox"/>	Edit Copy Delete	20180001	6	What is the title of the video	My Father	My Mother	My Brother	My Sister	My Sister	0000-00-00
<input type="checkbox"/>	Edit Copy Delete	20180002	6	Who is the name of the character in the story?	Ben	Holly	Gaston	Wise old elf	Gaston	0000-00-00
<input type="checkbox"/>	Edit Copy Delete	20210004	8	Which of the following is correct about custom att...	A custom data attribute starts with data- and woul...	You would be able to get the values of these attri...	Both of the above.	None of the above.	c	0000-00-00

Fig6.6) Teacher giving exercise

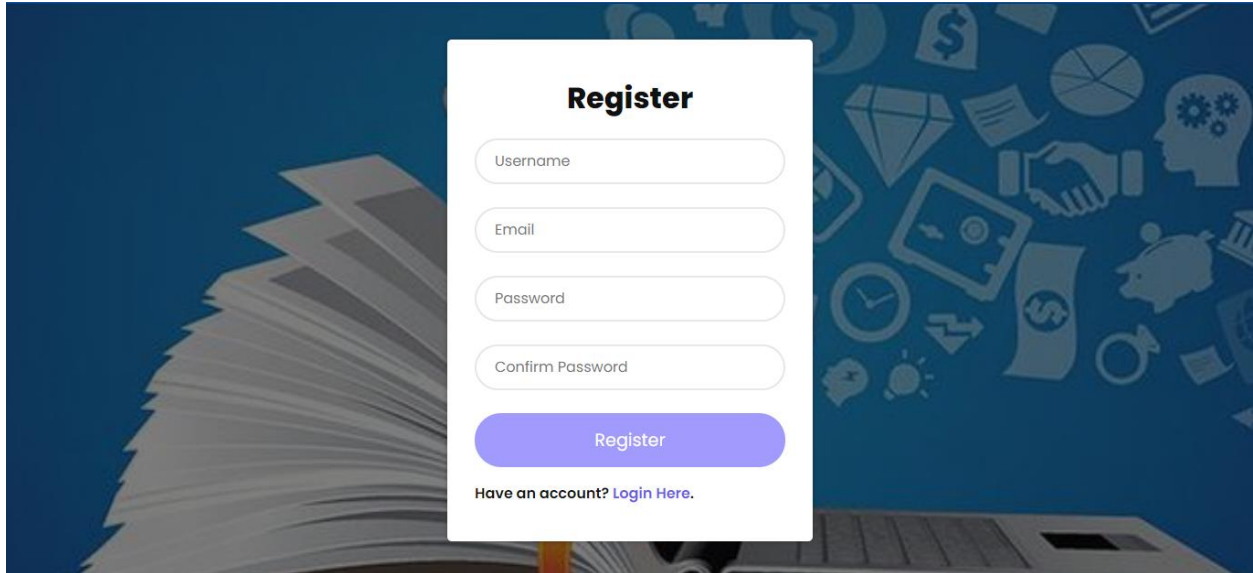
- Student exercise score

+ Options								
← T →		ScoreID	LessonID	ExerciselD	StudentID	NoItems	Score	Submitted
<input type="checkbox"/>	Edit Copy Delete	9	6	20180001	1	1	1	1
<input type="checkbox"/>	Edit Copy Delete	10	6	20180002	1	1	1	1

Fig6.7) Student exercise score

## 7. Module Implementation Screenshots

### a) Sign up Module

A screenshot of the SPARK Register form. The form is a white card centered on a dark blue background with financial icons. It contains four input fields: Username, Email, Password, and Confirm Password. Below the fields is a purple Register button. At the bottom, there is a link: Have an account? [Login Here.](#)

**Register**

Username

Email

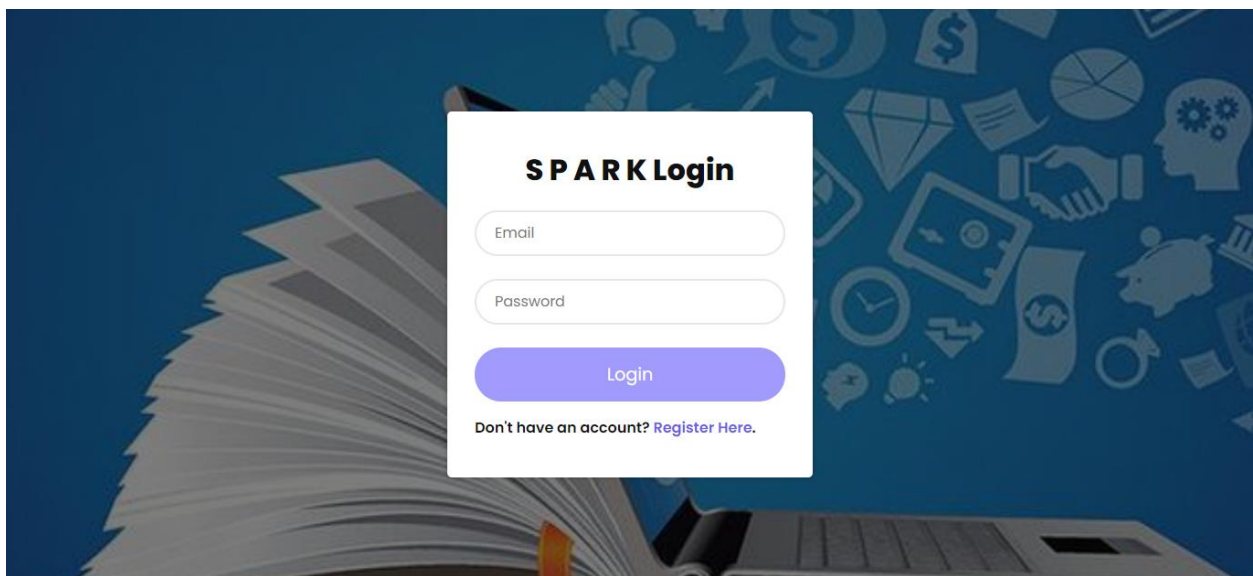
Password

Confirm Password

Register

Have an account? [Login Here.](#)

Fig7.1) SPARK register

A screenshot of the SPARK Login form. The form is a white card centered on a dark blue background with financial icons. It contains two input fields: Email and Password. Below the fields is a purple Login button. At the bottom, there is a link: Don't have an account? [Register Here.](#)

**SPARK Login**

Email

Password

Login

Don't have an account? [Register Here.](#)

Fig7.2) SPARK login

## b) Online classes

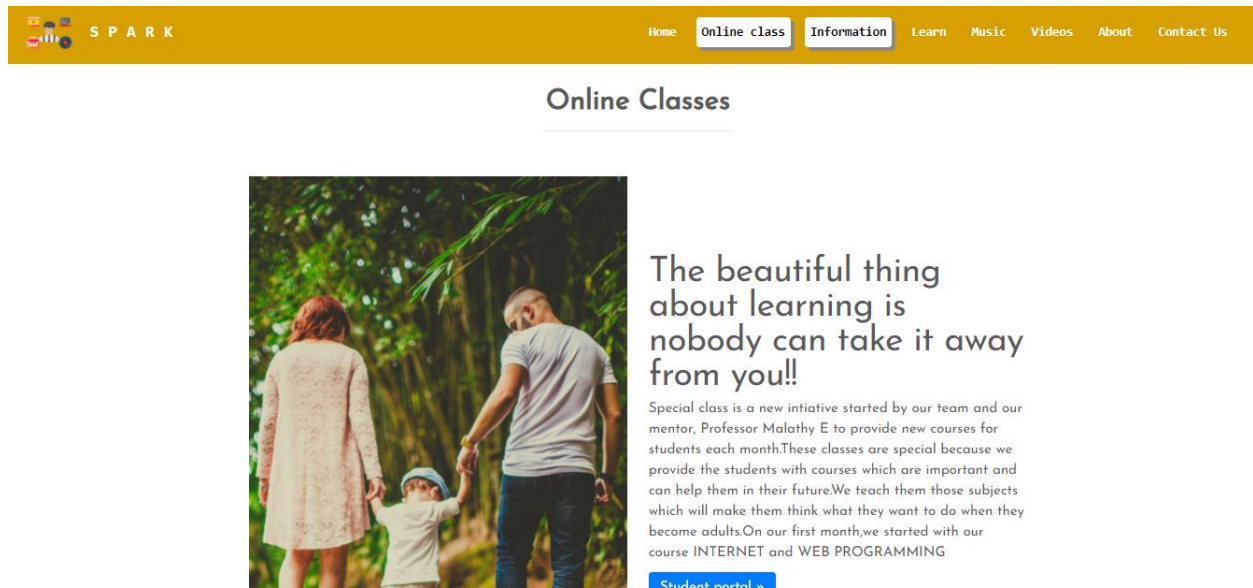


Fig7.3) Online class main page

### 2.1) Student page

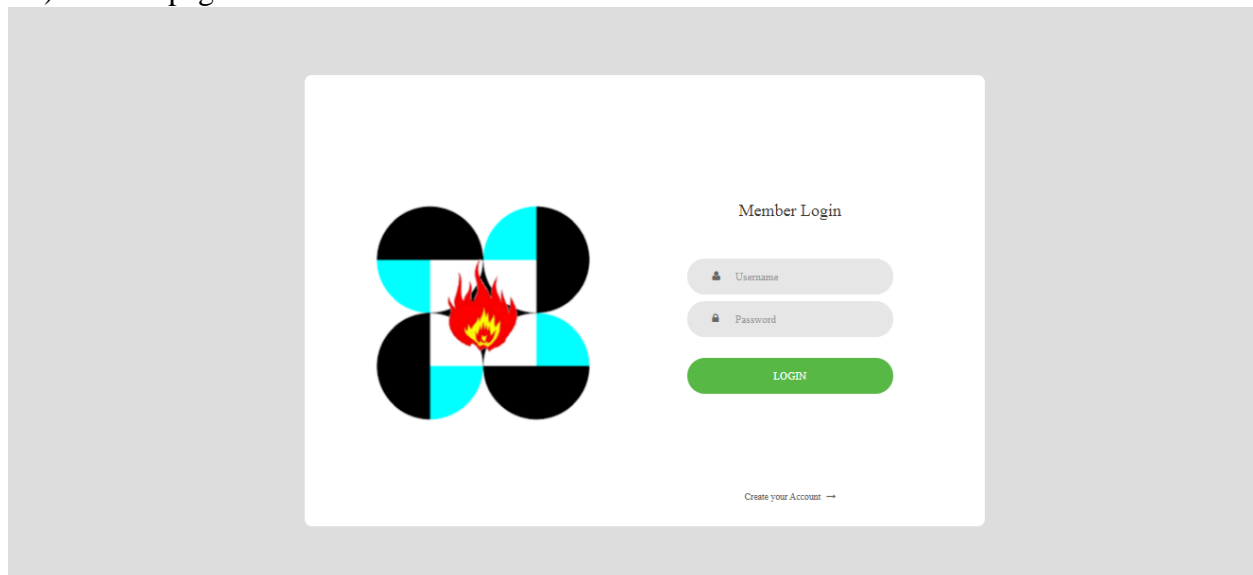


Fig7.4) Student login

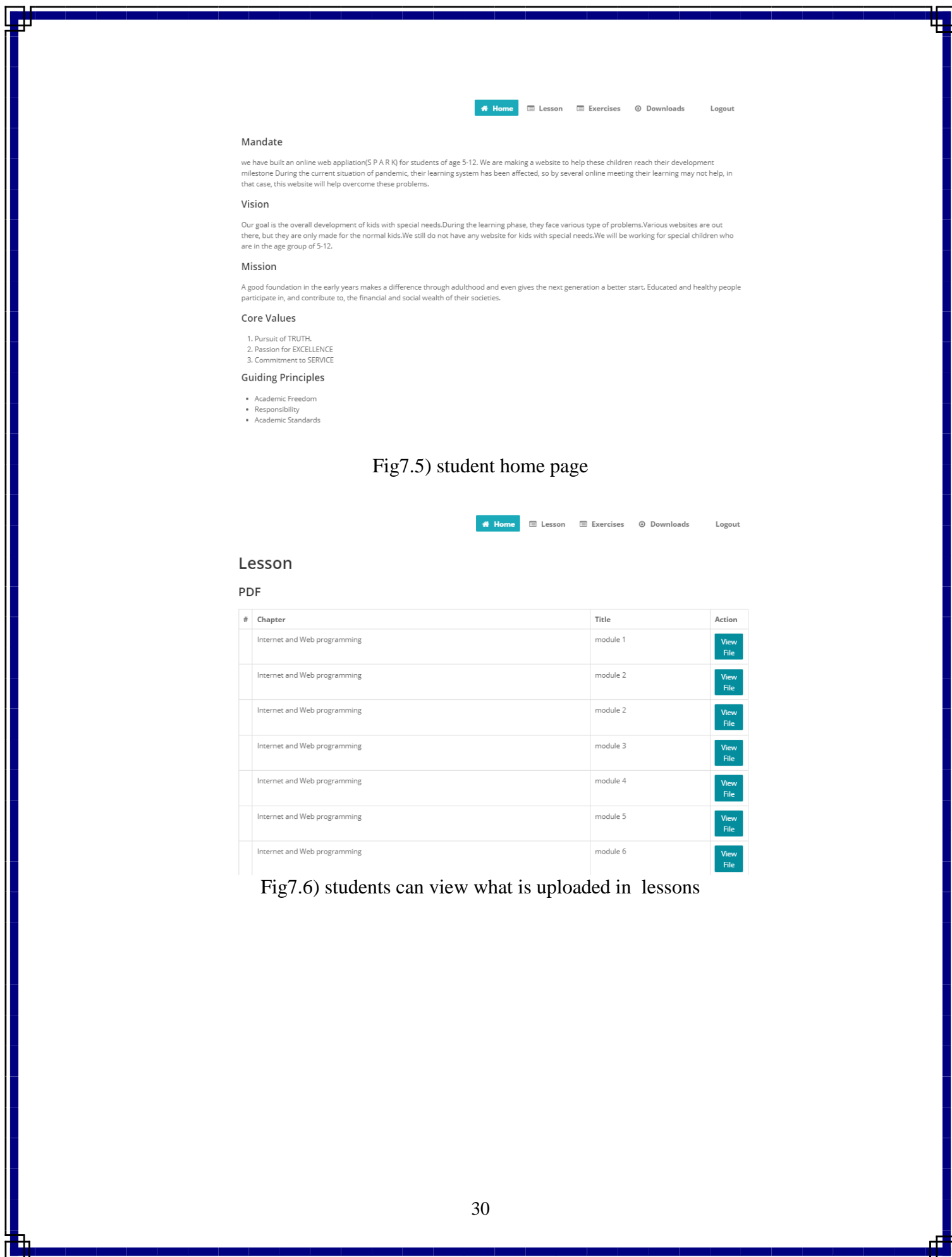


Fig7.5) student home page

Lesson			
PDF			
#	Chapter	Title	Action
	Internet and Web programming	module 1	<a href="#">View File</a>
	Internet and Web programming	module 2	<a href="#">View File</a>
	Internet and Web programming	module 2	<a href="#">View File</a>
	Internet and Web programming	module 3	<a href="#">View File</a>
	Internet and Web programming	module 4	<a href="#">View File</a>
	Internet and Web programming	module 5	<a href="#">View File</a>
	Internet and Web programming	module 6	<a href="#">View File</a>

Fig7.6) students can view what is uploaded in lessons

[Home](#)
[Lesson](#)
[Exercises](#)
[Downloads](#)
[Logout](#)

## Exercises

#	Chapter	Title	Action
	Internet and Web programming	module 1	<a href="#">View Exercises</a>
	Internet and Web programming	module 2	<a href="#">View Exercises</a>
	Internet and Web programming	module 2	<a href="#">View Exercises</a>
	Internet and Web programming	module 3	<a href="#">View Exercises</a>
	Internet and Web programming	module 4	<a href="#">View Exercises</a>
	Internet and Web programming	module 5	<a href="#">View Exercises</a>
	Internet and Web programming	module 6	<a href="#">View Exercises</a>
	Internet and Web programming	module 7	<a href="#">View Exercises</a>

Fig7.7) students can do exercises given by teachers

[Home](#)
[Lesson](#)
[Exercises](#)
[Downloads](#)
[Logout](#)

## Question

Choose the correct answer.

Which of the following is correct about custom attributes in HTML5?

- ☐ A. A custom data attribute starts with data- and would be named based on your requirement.
- ☐ B. You would be able to get the values of these attributes using JavaScript APIs or CSS in similar way as you get for standard attributes.
- ☐ C. Both of the above.
- ☐ D. None of the above.

Submit

Fig7.8) exercise view

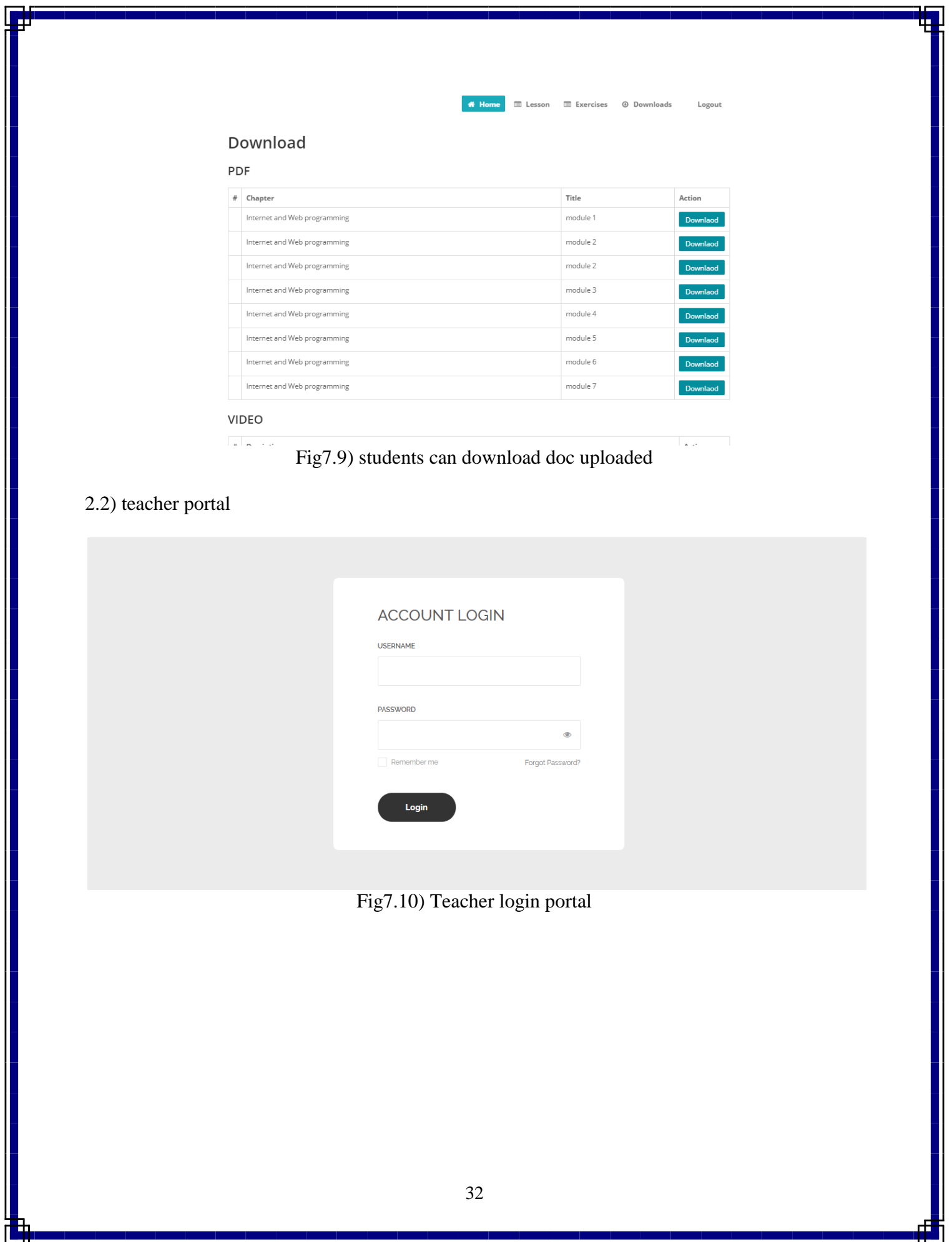



Fig7.9) students can download doc uploaded

## 2.2) teacher portal

The screenshot shows a 'Teacher login portal' with a light gray background. In the center, there is a white box containing the 'ACCOUNT LOGIN' form. The form has two input fields: 'USERNAME' and 'PASSWORD'. Below the 'PASSWORD' field, there is a 'Remember me' checkbox and a 'Forgot Password?' link. At the bottom of the form, there is a dark gray 'Login' button.

Fig7.10) Teacher login portal



E-Learning System Add 

Dashboard
Lesson
Exercises 11
B Gallery
B Manage Students
Manage Users
Logout


### List of Lessons New

Show  entries Search:

Chapter	Title	File Type	Action
Internet and Web programming	module 1	Docs	<a href="#">Edit</a> <a href="#">Change File</a> <a href="#">View</a> <a href="#">Delete</a>
Internet and Web programming	module 2	Docs	<a href="#">Edit</a> <a href="#">Change File</a> <a href="#">View</a> <a href="#">Delete</a>
Internet and Web programming	module 2	Docs	<a href="#">Edit</a> <a href="#">Change File</a> <a href="#">View</a> <a href="#">Delete</a>
Internet and Web programming	module 3	Docs	<a href="#">Edit</a> <a href="#">Change File</a> <a href="#">View</a> <a href="#">Delete</a>
Internet and Web programming	module 4	Docs	<a href="#">Edit</a> <a href="#">Change File</a> <a href="#">View</a> <a href="#">Delete</a>
Internet and Web programming	module 5	Docs	<a href="#">Edit</a> <a href="#">Change File</a> <a href="#">View</a> <a href="#">Delete</a>
Internet and Web programming	module 6	Docs	<a href="#">Edit</a> <a href="#">Change File</a> <a href="#">View</a> <a href="#">Delete</a>
Internet and Web programming	module 7	Docs	<a href="#">Edit</a> <a href="#">Change File</a> <a href="#">View</a> <a href="#">Delete</a>

Showing 1 to 8 of 8 entries < >

Fig7.11) list of lessons

E-Learning System Add 

Dashboard
Lesson
Exercises 11
B Gallery
B Manage Students
Manage Users
Logout

### List of Question New


Show  entries Search:

Lesson	Question	A	B	C	D	Answer	Action
module 1	Which of the following is correct about custom attributes in HTML5?	A custom data attribute starts with data- and would be named based on your requirement.	You would be able to get the values of these attributes using JavaScript APIs or CSS in similar way as you get for standard attributes.	Both of the above.	None of the above.	c	<a href="#">Edit</a> <a href="#">Delete</a>

Showing 1 to 1 of 1 entries < >

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Fig7.12) list of questions

E-Learning System Add ▾ 

Dashboard
Lesson
Exercises 11
Galery
Manage Students
Manage Users
Logout

### Add New Question

Lesson:

Questions:

A:

B:


C:

D:

Answer:

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Fig7.13) Add question

E-Learning System Add ▾ 

Dashboard
Lesson
Exercises 11
Galery
Manage Students
Manage Users
Logout

### Upload New Lesson

Chapter:

Title:


Select File Type:

No file chosen

Upload File:

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Fig7.14) Add new lesson

E-Learning System Add 

Dashboard
Lesson
Exercises 11
Galery
Manage Students
Manage Users
Logout

### List of Student


Show  entries
Search:

Name	Address	Contact#
a a	a	21
saaurav slingh	House number 31,piska more,hesal, Piska more	7667702568
sd sad	sad	231

Showing 1 to 4 of 4 entries
< >

© 2021 SPARK All rights reserved.

Fig7.15) list of students

E-Learning System Add 

Dashboard
Lesson
Exercises 11
Galery
Manage Students
Manage Users
Logout

New [mathay e] created successfully!

### List of Users New

Show  entries
Search:

Account Name	Username	Action
mathay e	malathay e	Edit Delete
saaurav	saaurav	Edit Delete

Showing 1 to 2 of 2 entries
< >

© 2021 Spark All rights reserved.

Fig7.16) list of teachers

c) Information Module which has Updates and Teaching guidelines as sub module.



Fig7.17) information main page

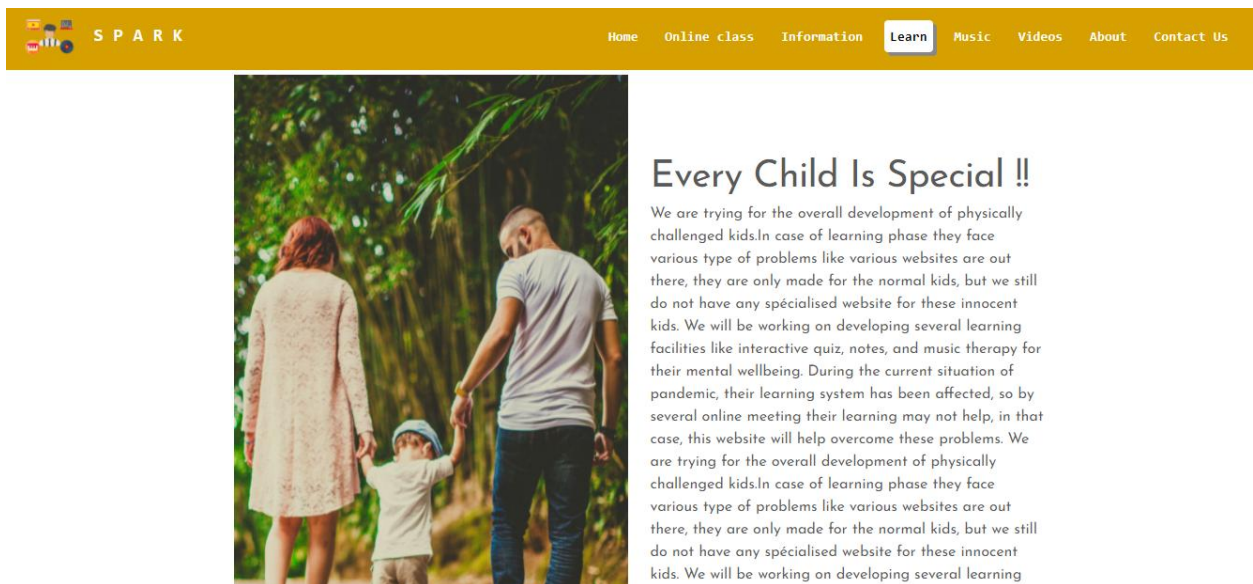


Fig7.18) information page



Fig7.19) information module

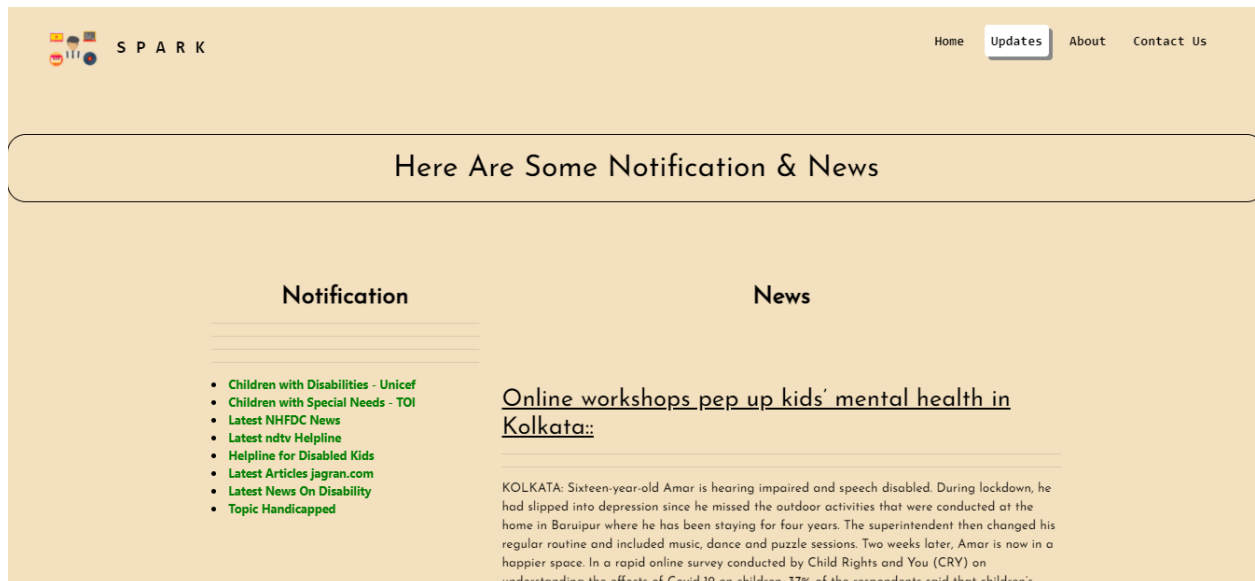


Fig7.20) News and updates



Fig7.21) Guidelines page



Fig7.22) Guidelines for writing



d) Learning Module which has Notes, Subjective Video, Audio Books, Calculator and Quiz as sub module.

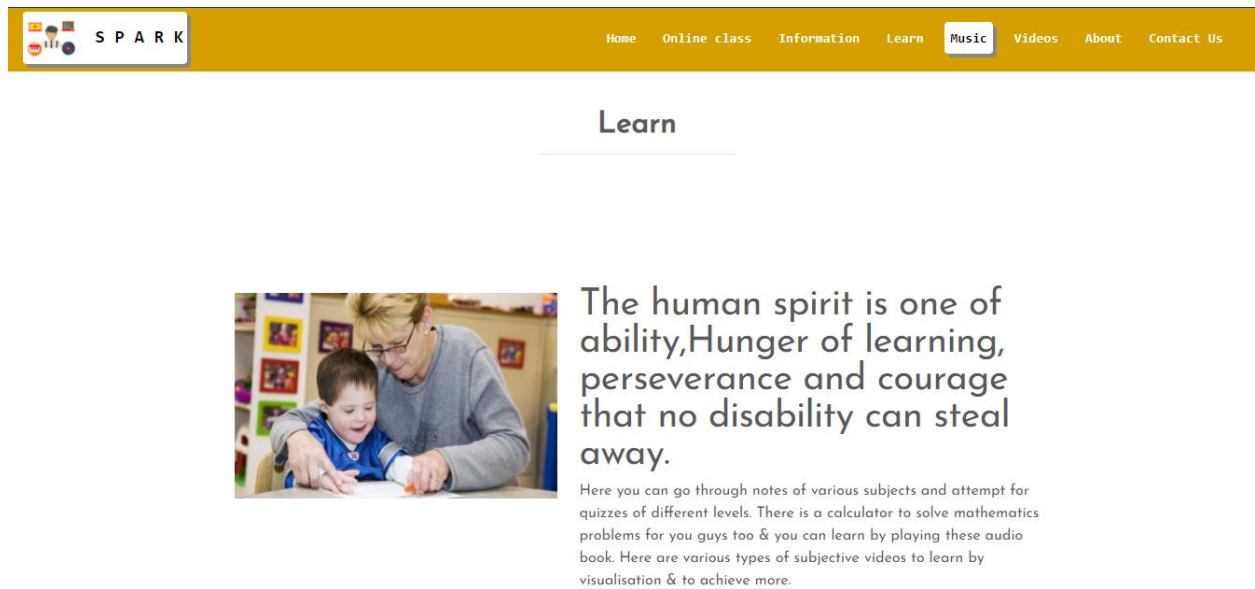


Fig7.23) learn main page

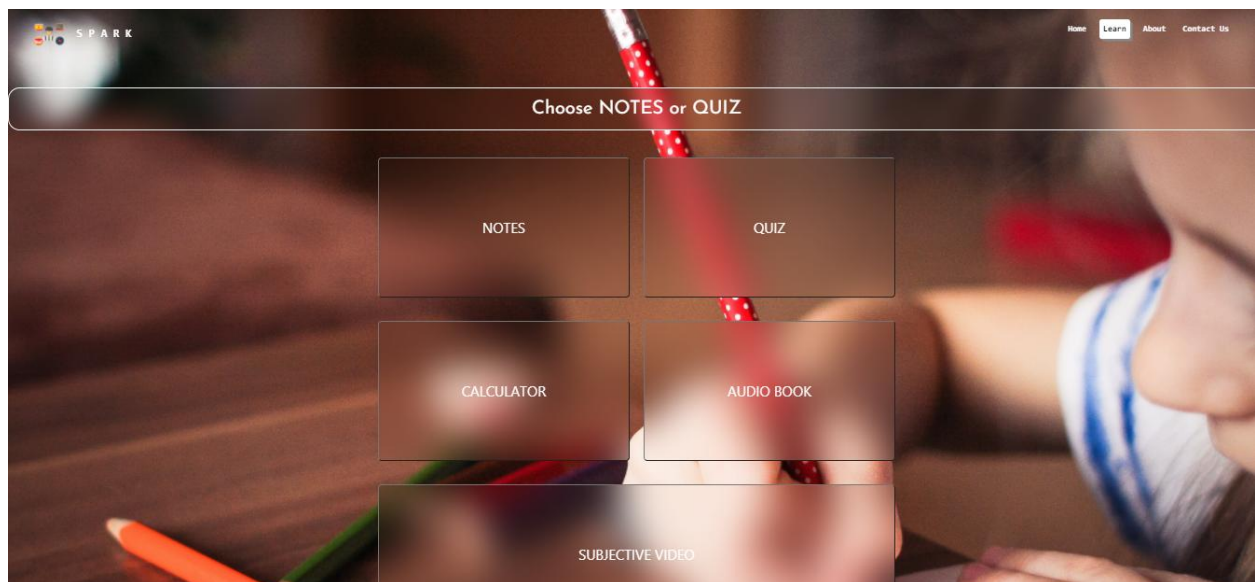


Fig7.24) learning module

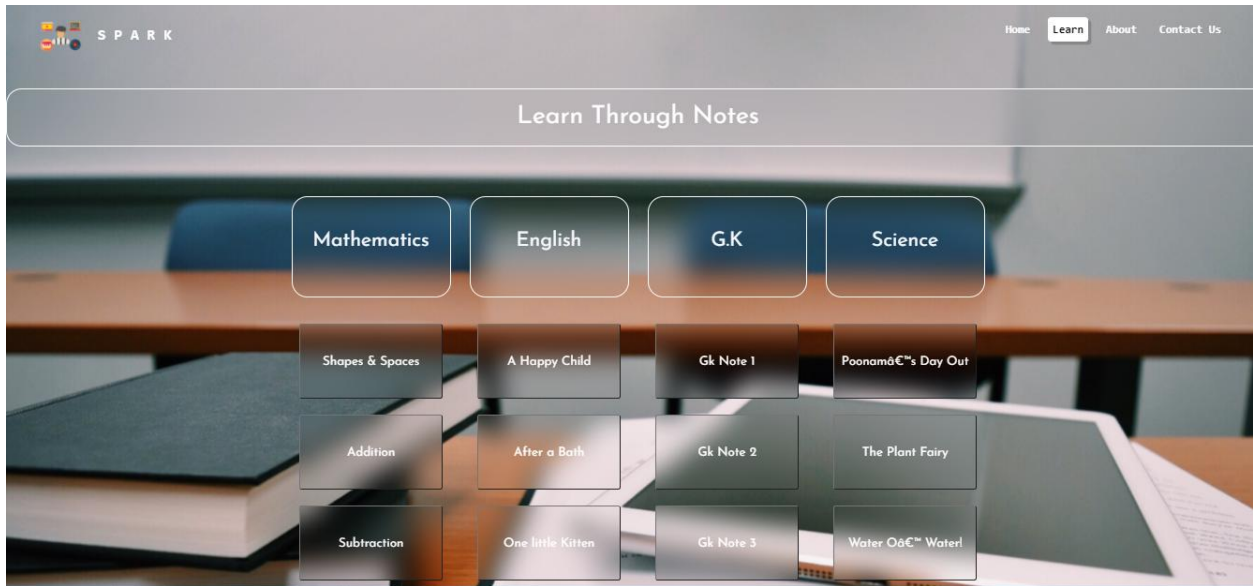


Fig7.25) Notes pages

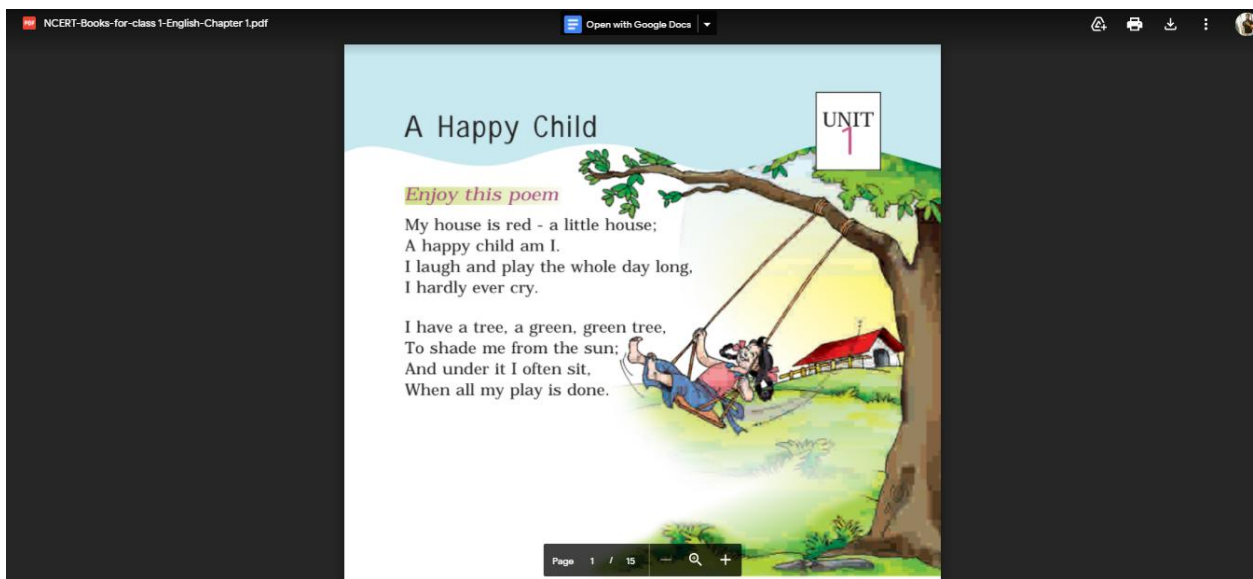


Fig7.26) English notes



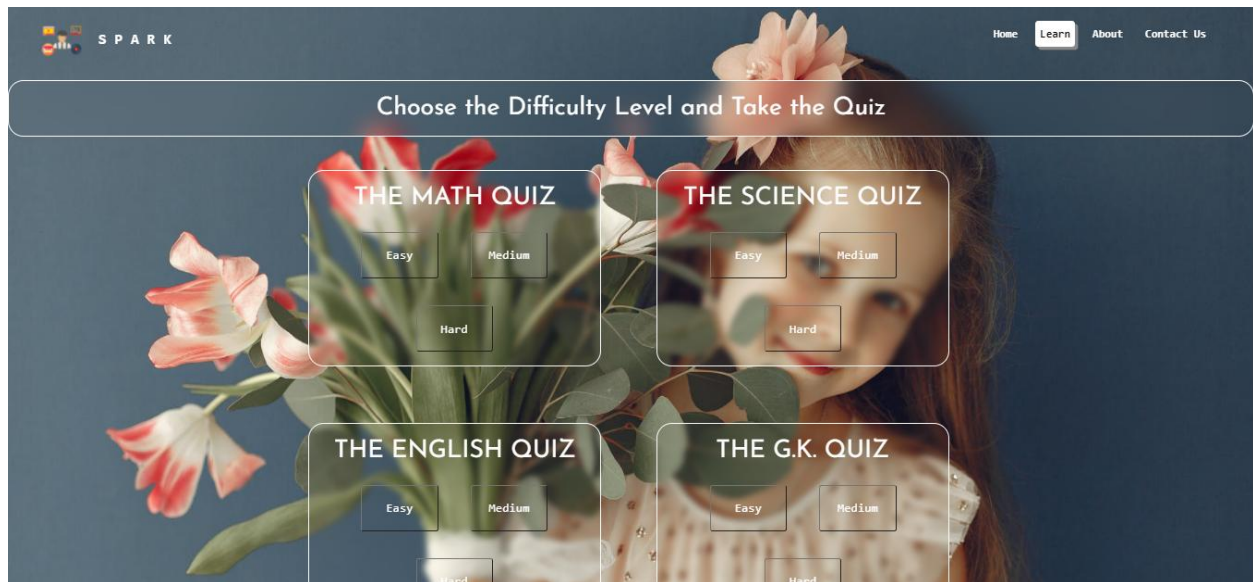


Fig7.27) Quiz page

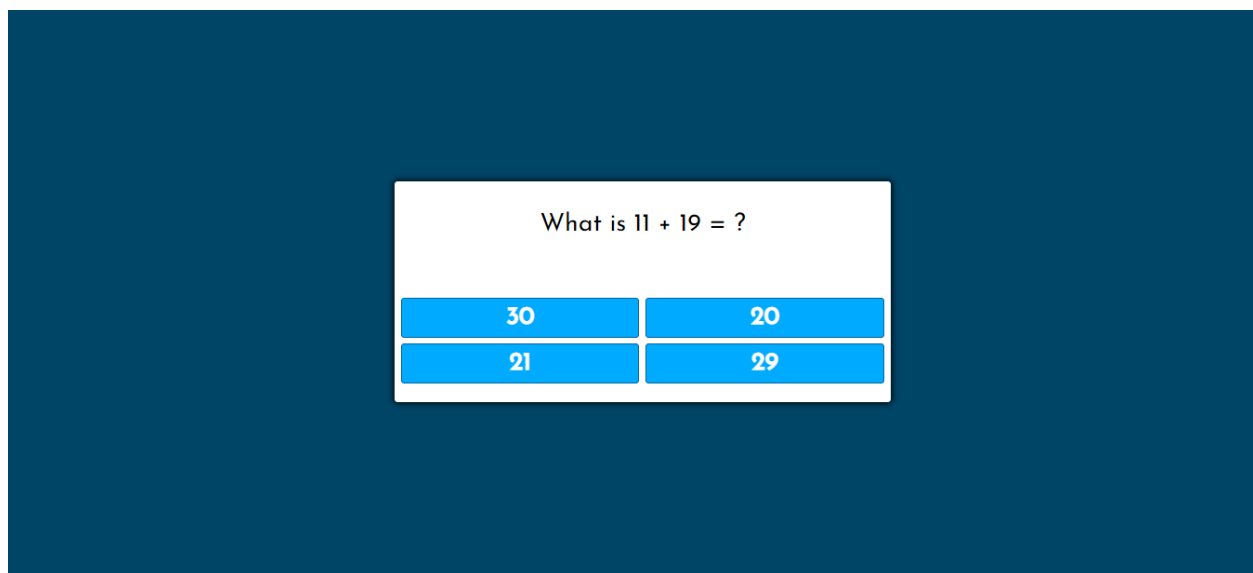


Fig7.28) Question from easy quiz

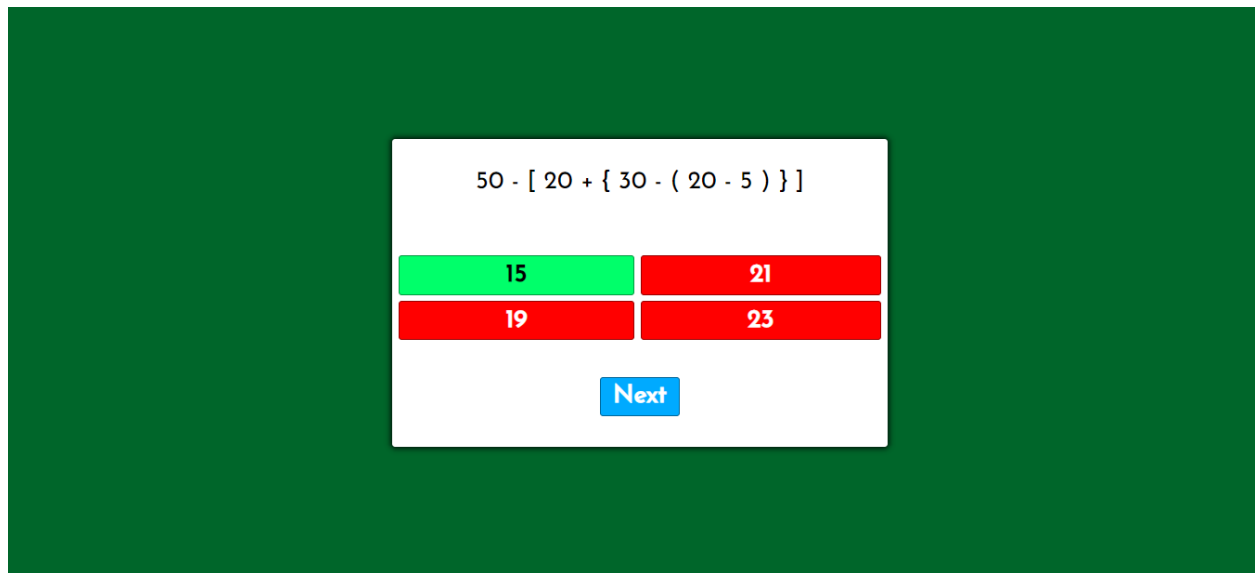


Fig7.29) correct answer show green color in background

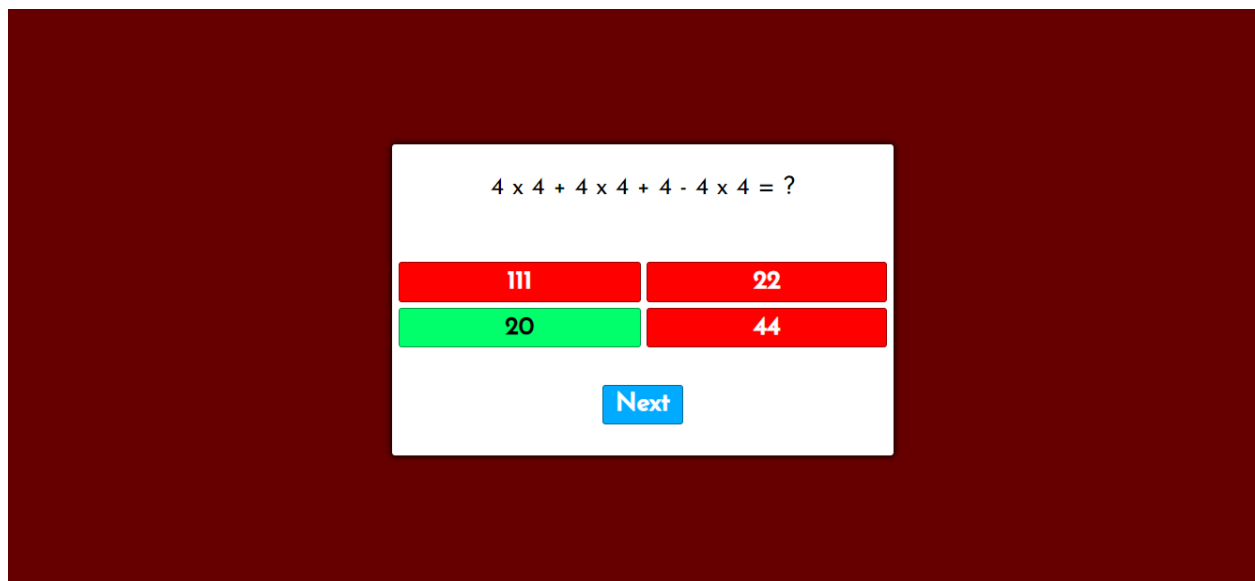


Fig7.30) wrong answer shows red in background

localhost says

--> You got 4 correct. Try Hard and Better Luck Next Time. <--

OK

Fig7.31) output of quiz

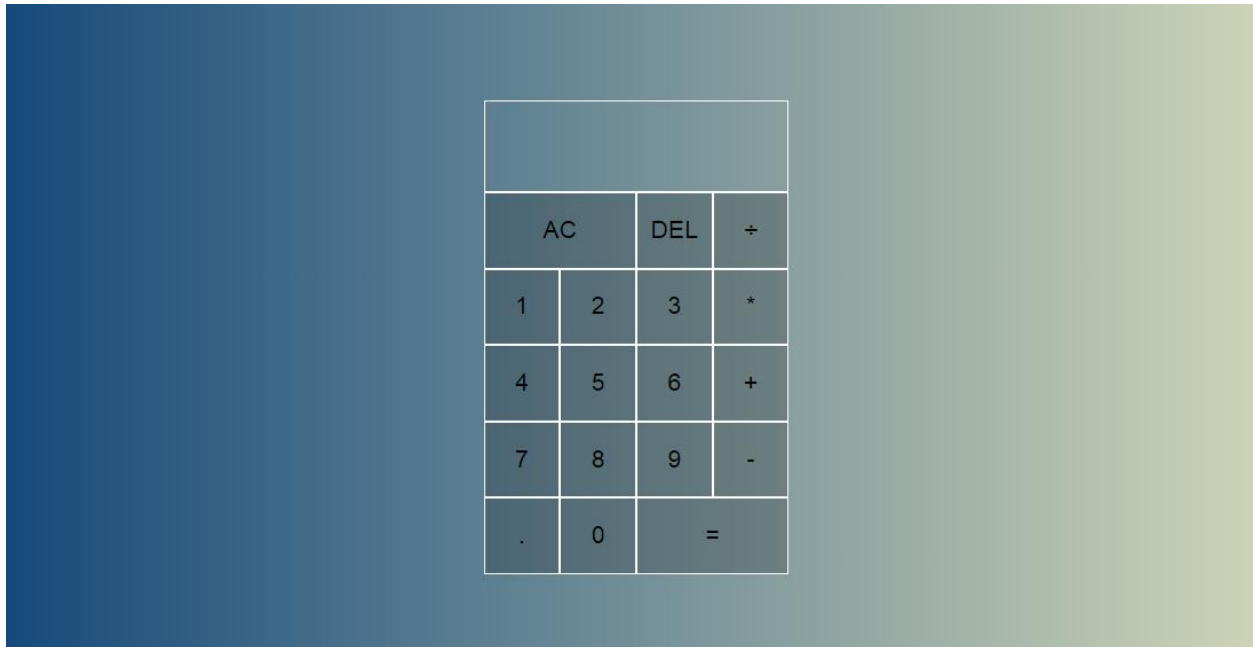


Fig7.32) Calculator

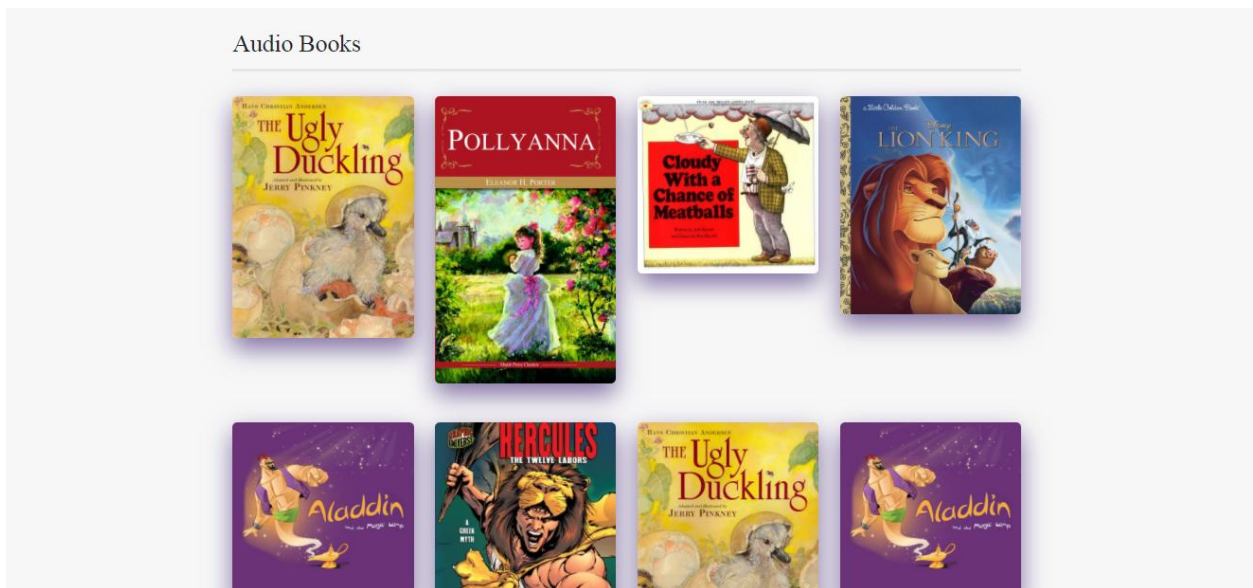


Fig7.33) Audio book

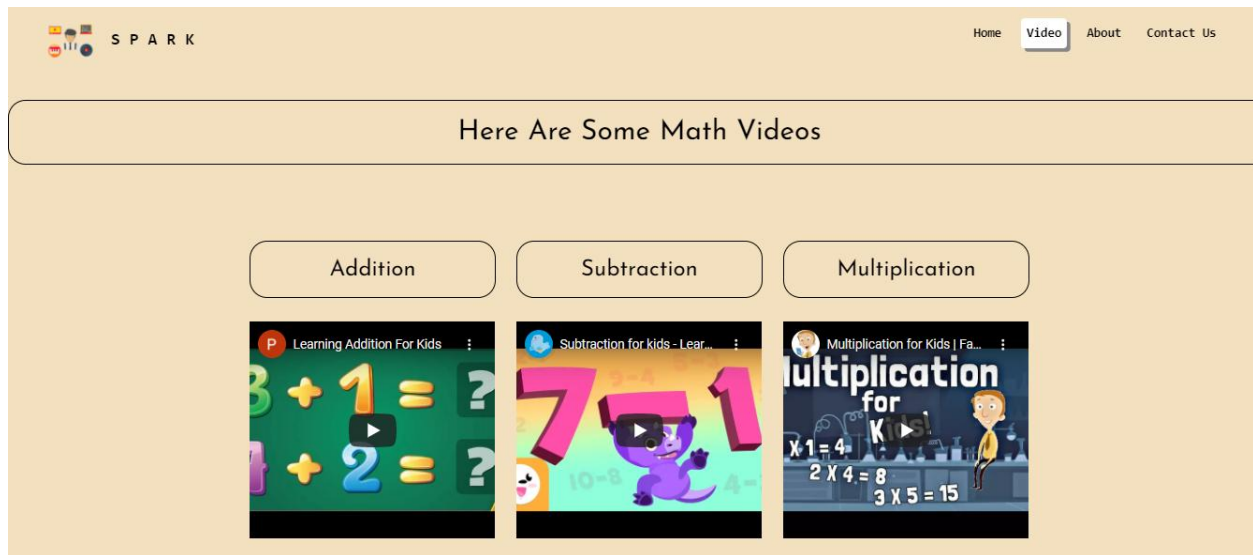


Fig7.34) Subjective Video

e) Music Module which has 3 types of music.

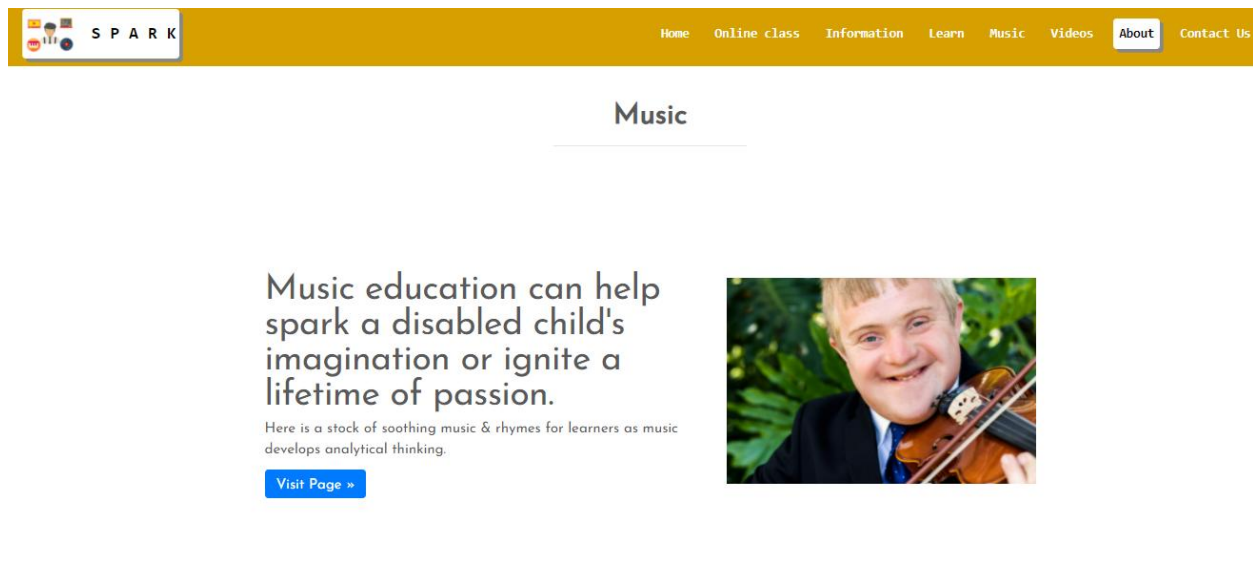


Fig7.35) Music main page

## Music Therapy for Special Children

Music therapy as an addition to standard care helps people with multi handicapped to improve their mental and physical states and functioning if a sufficient number of music therapy sessions are provided. Furthermore, it illustrates the use of music therapy in treating the needs of rehabilitation centers and provides various results that support the positive effects of music therapy. Music plays a big part in most people's lives. It can be relaxing, spark certain feelings and increase quality of life. For people with disabilities, music has several advantages and can help to develop mental, physical and social abilities. Our brains are developed at an early age to respond or process to melodies better. That is why, it acts as a powerful medium to distract our mind, body and the brain, alter our mood and also influence behavior. If used in the correct way, music can make your life better!

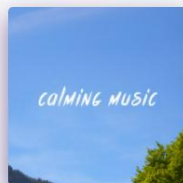
### Instrumental Music



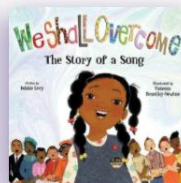
Here are some fantastic instrumentals

Fig7.36) Music module

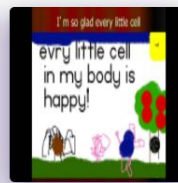
### Therapeutic Tunes



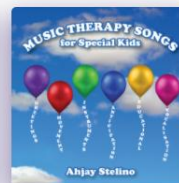
CALMING MUSIC



WE SHALL OVERCOME



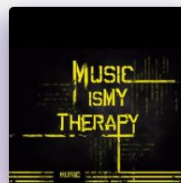
EVERY SINGLE CELL



SOULFUL SONG



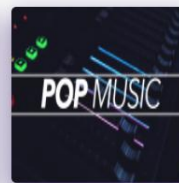
RELAXING TUNE



THERAPY SONG



CLAP YOUR HANDS



POP MUSIC

Fig7.37) Therapeutic tunes

### Instrumental Tunes



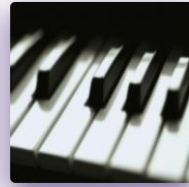
GUITAR MUSIC



INSTRUMENTAL GUITAR



TABLA SOUND



PIANO MUSIC



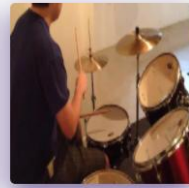
SITAAR



HARMONIUM



FLUTE MUSIC



DRUM MUSIC

Fig7.38) Instrumental Tunes

### Bollywood Tunes



Fig7.39) Bollywood Tunes



f) Video Module which has inspiring videos.

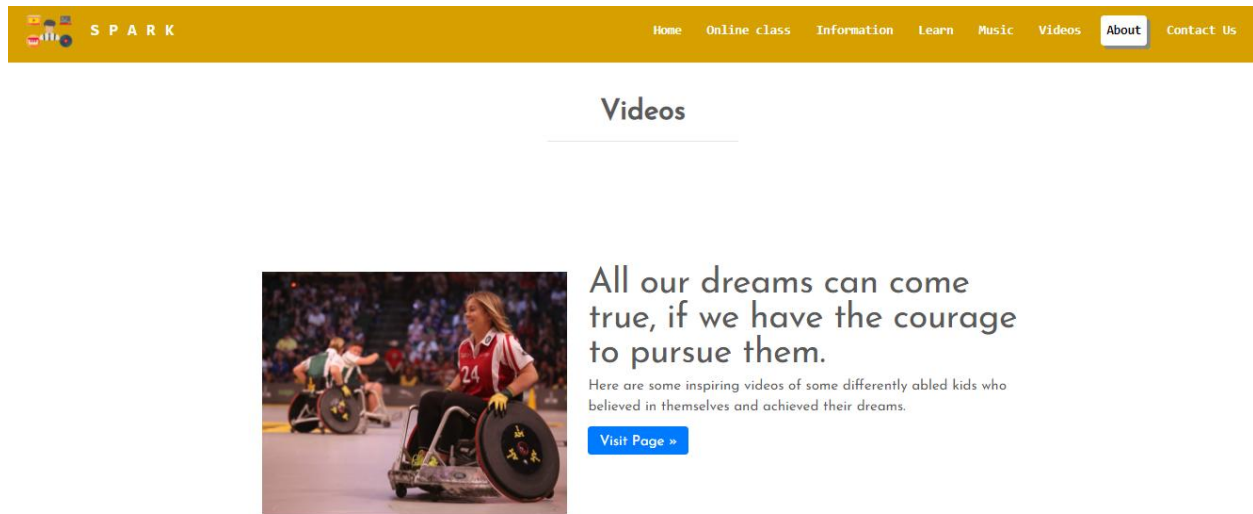


Fig7.40) Videos main page

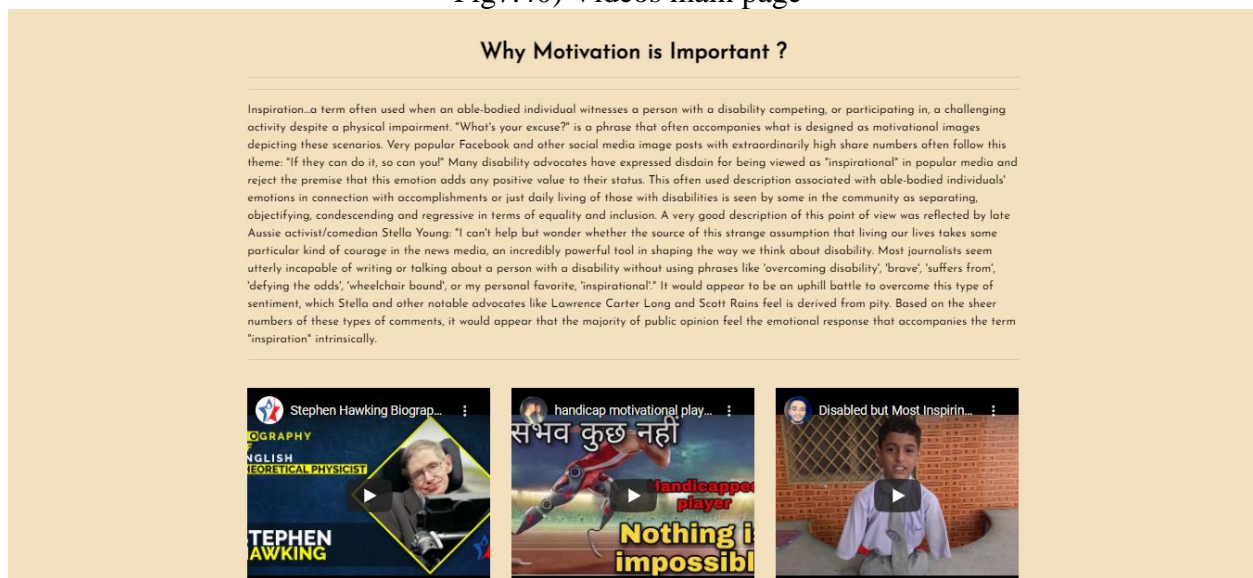


Fig7.41) Inspirational Videos

## 8. Conclusion

Under the guidance of Prof. Malathy E, we were able to make a learning portal for children and can also be used by special children. This Project is made for children who are in the age group of 5-12. We were able to make a website to help these children reach their development milestone. With so much resources like:

- 1) Learning
- 2) Music
- 3) Video and many more.

We are able to help children in their overall development. We worked on developing several learning facilities like interactive quiz, notes, and music therapy for their mental wellbeing. A good foundation in the early years makes a difference through adulthood and even gives the next generation a better start. Educated and healthy people participate in, and contribute to, the financial and social wealth of their societies.

During the current situation of pandemic, their learning system has been affected, so by having several online classes their learning may not help, in that case, this website is helping them overcome these problems.



## **9. Future Work**

Our future plan is to add more subjects and also increase our course content. We would like to add more difficulty levels as well. At some point we will also start making our own study material. Since we want to treat this as our business, we will also add VIP classes in which we will provide a more premium content for a fixed price. We have noticed from other learning portals and have decided to have a subscription system for our portal.

We will also add subjects like theatre, cooking and speaking skills so that we can focus on the overall development of the child and help them in their extra co-curricular activities.

We would also like to have a page where the children can ask all their doubts and teachers can answer them.