

Code Analyser : Online Tutorial System

Abstract

There are several problems with the traditional system of education. First of all, you need to pay a lot of money per term to attend a prestigious school and colleges. With all those budget cuts, busy classrooms, and course shortages, you won't always get the chance to study exactly what you want.

It's no wonder why millions of students from all around the world opt for online degree programs or take at least one college course through an online platform. Online learning has to be the greatest revolution in contemporary education. It made a huge change in the system and opened great opportunities for everyone who wants to learn something.

You can pick the program of your dreams in traditional education, too, but that would involve traveling away from home, living in a completely unknown city, and struggling in an extremely competitive learning environment. With online education, you can take any program or course present in traditional four year universities.

Forget about attending classes for hours, sitting in an uncomfortable chair, and suffering from back pain by the end of the day. You will not be bound to physical class session when you opt for online education. All lectures and needed materials are provided via online platforms, so you'll easily access them from the comfort of your home. You will not take public transport to get to campus, you won't have to spend money on gas for your car, you won't have to get up early to get dressed for class... the list of conveniences goes on and on.

Online courses and degree programs are more convenient and cheaper than their counterparts in traditional education. Those are the two main advantages of online learning that lead many students to opt for online platforms when they want to earn a degree or certificate. The best thing about online learning is that you can learn in a relaxed manner even if you don't want to get certified. You only need passion for learning and a quick online search that will take you to the right course. From that point on, you will be the master of your own education.

Advantages of Online Learning

- 1) A large variety of courses to choose from
- 2) Multiple ways to communicate with your professor
- 3) It doesn't cost as much
- 5) You have better opportunities to concentrate
- 6) You can customize your learning environment
- 7) Enjoy a flexible schedule
- 8) Boost your career advancement opportunities
- 9) It's eco-friendly
- 10) Your online college credits can transfer
- 11) Boost your opportunities for classroom subject discussions
- 12) Join virtual study groups
- 13) You can review course materials repeatedly
- 14) You can learn at your own pace
- 15) Take online quizzes and exams and get your score immediately

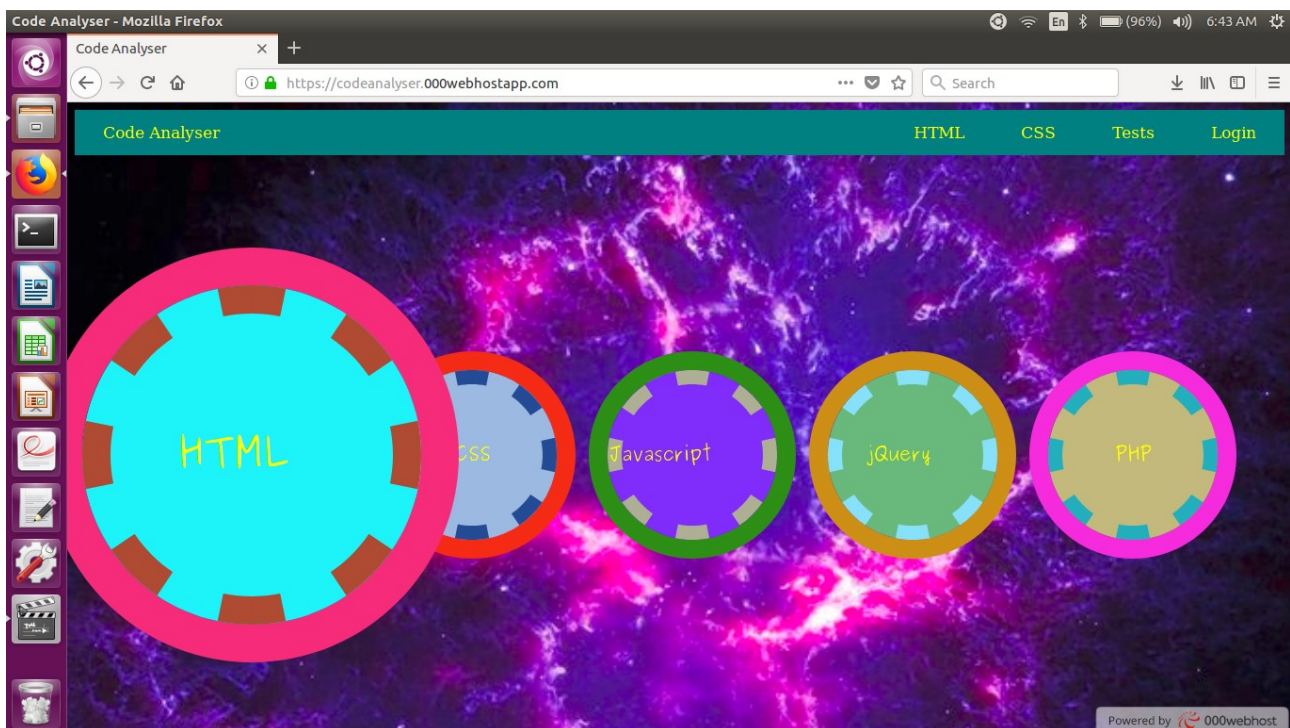
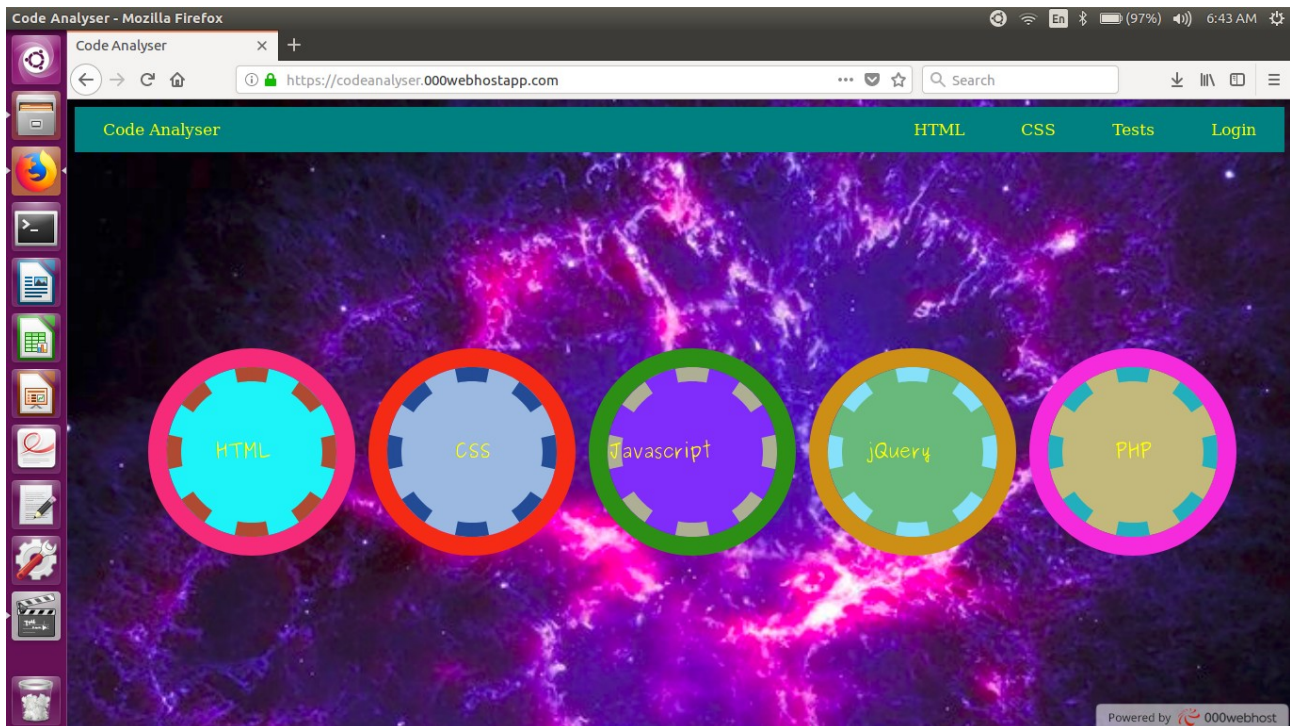
Our group has divided the work of making the project among all the members. Making the project allowed us learn and undestand many new things. We thank our Professors for providing us this wonderful opportunity and guiding us through out the project.

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Homepage

Homepage : <https://codeanalyser.000webhostapp.com>



This is the main page of the site. On this page the user can select to study five courses offered by us HTML , CSS , Javascript , jQuery , PHP free of costs. The user can also give tests to practise and improve his skills.

Sign Up Page

Sign Up - Mozilla Firefox

Sign Up

https://codeanalyser.000webhostapp.com/signup.html

First Name

Middle Name

Last Name

Email

Education

Primary School

Stream

Science

Date Of Birth

YYYY-MM-DD

Gender

Male

Address

Powered by 000webhost

Sign Up - Mozilla Firefox

Sign Up

https://codeanalyser.000webhostapp.com/signup.html

Stream

Science

Date Of Birth

YYYY-MM-DD

Gender

Male

Address

Mobile No

10 Digit Mobile No

Username

Password

Confirm Password

Submit

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Sign up page is made for new users to enter their information and create their new account.

Sign Up - Mozilla Firefox

Sign Up

https://codeanalyser.000webhostapp.com/signup.html

First Name

Please fill out this field. owing details to create your

Middle Name

Last Name

Email

Education

Primary School

Stream

Science

Date Of Birth

YYYY-MM-DD

Gender

Male

Address

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The form will not be submitted until all the details are being filled up by the user.

First Name , Middle Name , Last Name will only take valid names. It wont take numbers or special characters as people names doesnt contain numbers or symbols.

Email field will only take valid email id's. It is implementd using pattern , title and required.

Education field in select drop down menu.

Stream is also an select drop down menu.

Date of birth will only accept dates of the format YYYY-MM-DD.

Gender select drop down menu selects the gender.

Address contains the address of the user. It is implemented using textarea.

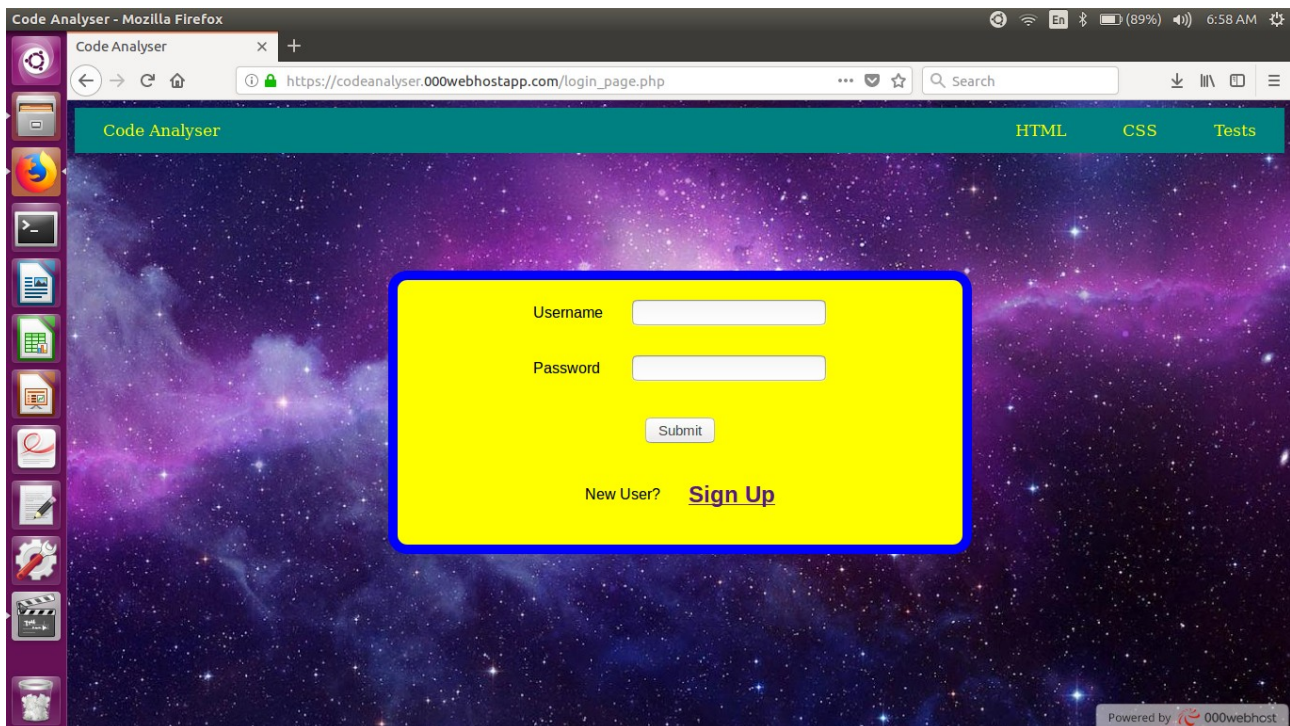
Mobile no field will only accept 10 digit valid mobile numbers.

Username is the primary key of the students table. It should be unique. If the user enters a Username which is already being used up it will show an error and asked the user to try with a different username.

Password and confirm password are for validation purpose.

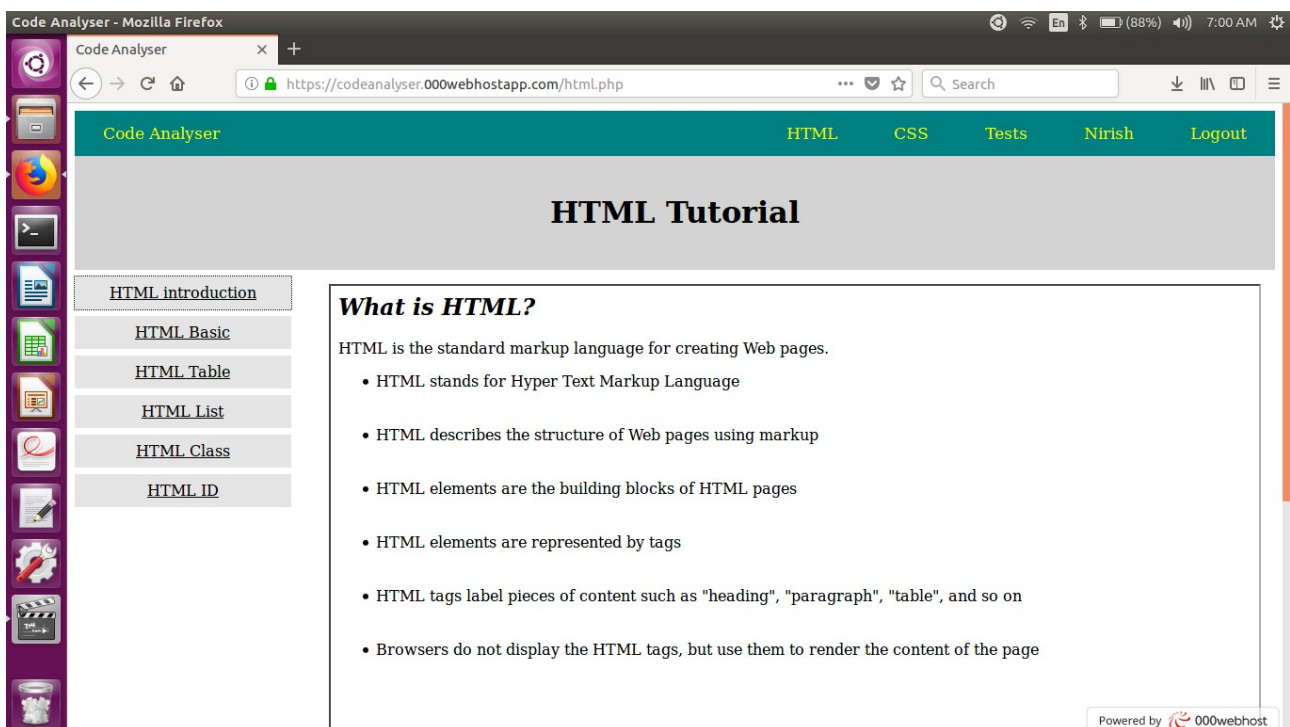
If password and confirm password do not match then the submit button will be disabled. Only when the passwords match submit button will be enabled.

Login Page



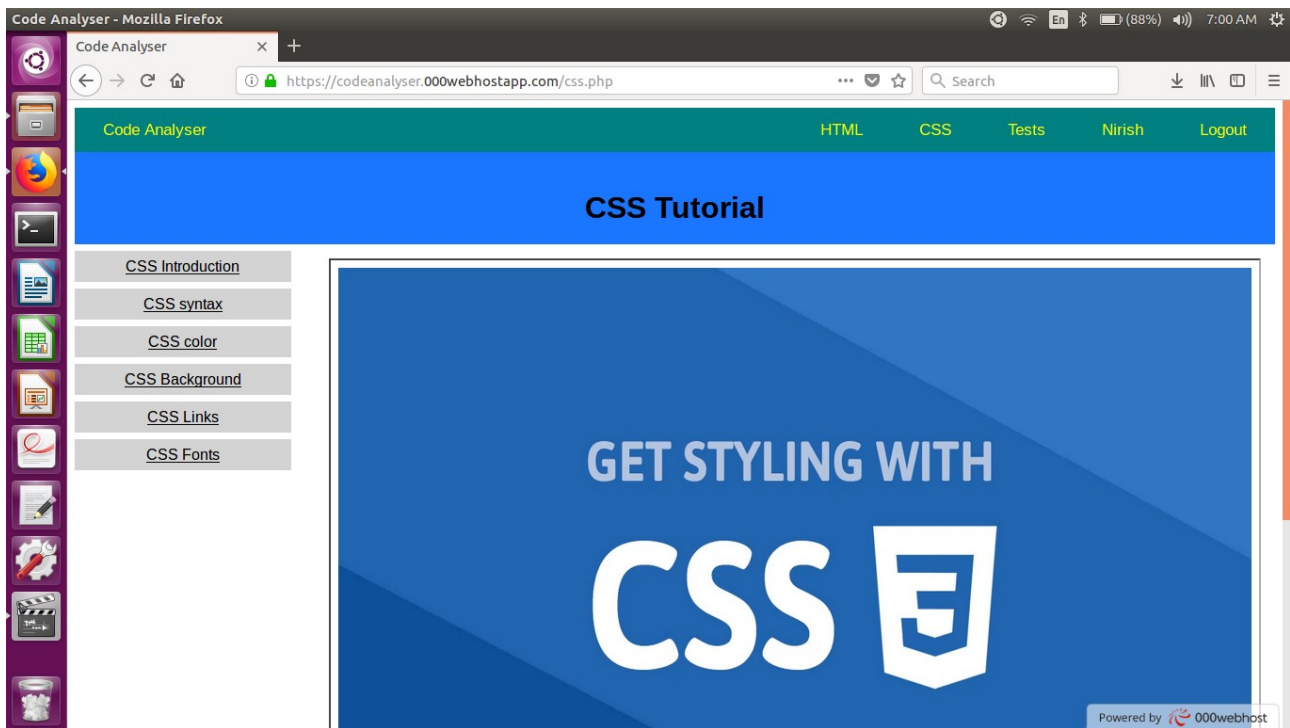
Login page allows the user to enter the username and password and log into his account. Our website prevents most of the SQL Injections.

HTML Page



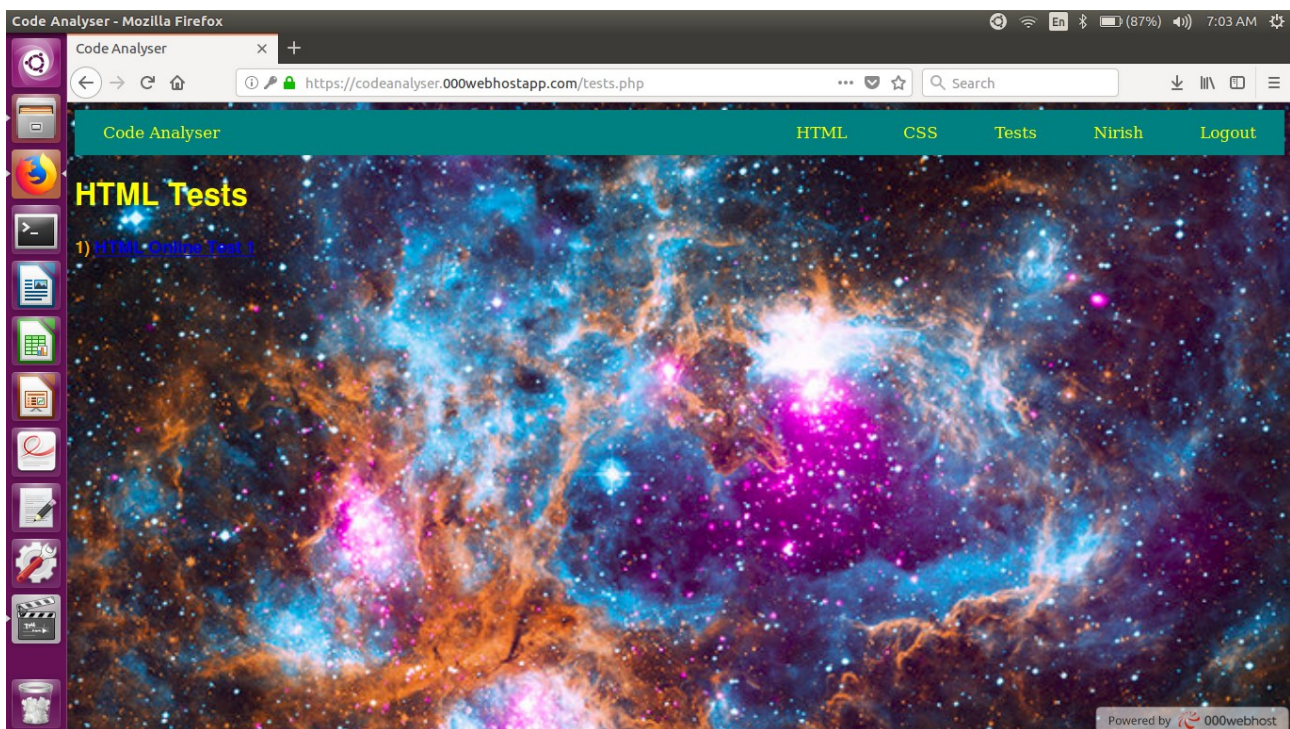
This allows the student to study HTML.

CSS Page



This allows the student to study CSS.

Tests Page



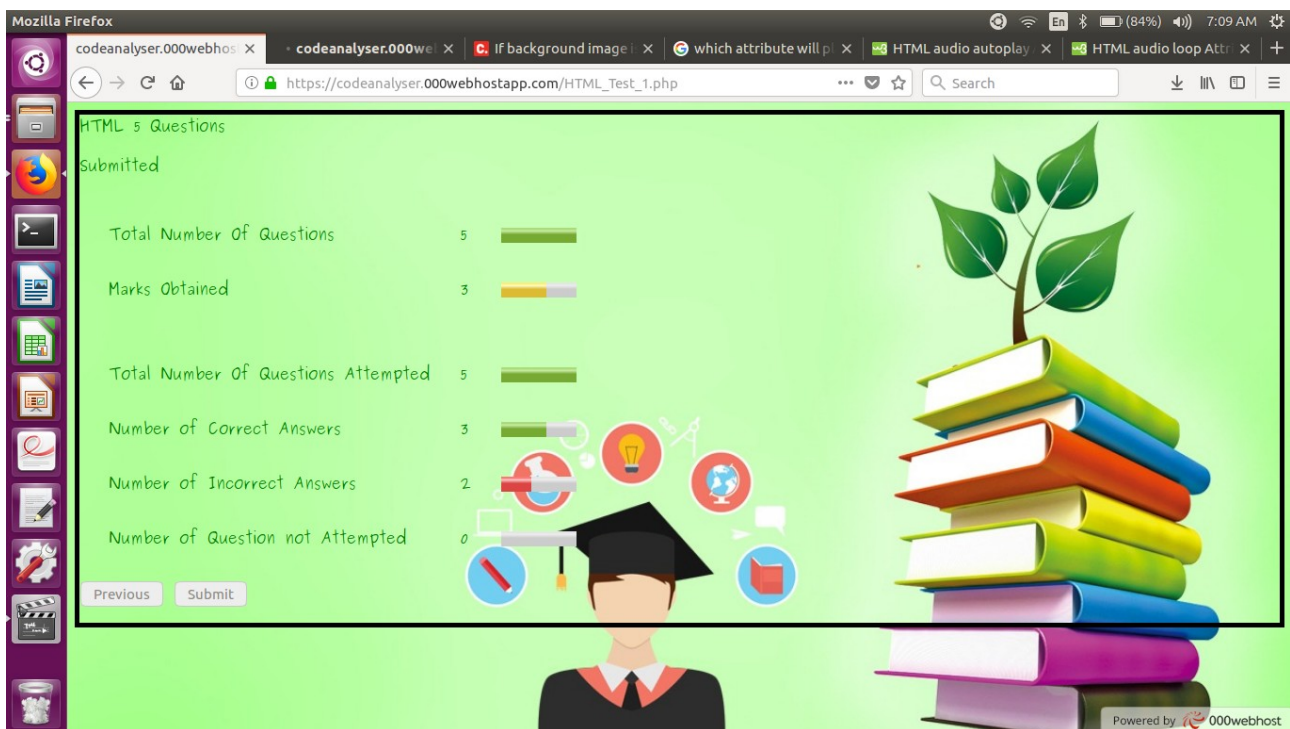
This allows the student to give various tests to practise and improve his/her's skills.

HTML Online Test 1



This is MCQ based test which is implmented using Javascript.

Results



Code Analyser - Mozilla Firefox

codeanalyser.000webhostapp.com Code Analyser

https://codeanalyser.000webhostapp.com/store_result.php

Code Analyser HTML CSS Tests Nirish Logout

Tests Results

X+Y+Z

Test ID	Total Questions	Correct Answers	Marks Obtained	Maximum Marks
HTML Test 1	5	3	3	5

<div x>

10+

E=mc²

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User Details Page

Code Analyser - Mozilla Firefox

codeanalyser.000webhostapp.com Code Analyser

https://codeanalyser.000webhostapp.com/user_details.php

Code Analyser HTML CSS Tests Nirish Logout

User Details

Username	First Name	Middle Name	Last Name	Email	Education	Stream	Date of Birth	Gender	Address	Mobile No
Nirish	Nirish	Shreepad	Samant	nirishsamant@gmail.com	BTech	Computer Engineering	1998-07-24	Male	10 B , Orchid , Cosmos Lounge , Manpada , Thane(w)	9819399079

Enrolled Courses

Course ID	Course Name	Course Duration	Course Certification Fees
CS_101	HTML	40	5000
CS_102	CSS	40	5000
CS_103	Javascript	40	5000
CS_104	jQuery	40	6000
CS_105	PHP	40	6000

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codeanalyser.000webhostapp.com Code Analyser

https://codeanalyser.000webhostapp.com/user_details.php

Code Analyser HTML CSS Tests Nirish Logout

User Details

Username	First Name	Middle Name	Last Name	Email	Education	Stream	Date of Birth	Gender	Address	Mobile No
Nirish	Nirish	Shreepad	Samant	nirishsamant@gmail.com	BTech	Computer Engineering	1998-07-24	Male	10 B , Orchid , Cosmos Lounge , Manpada , Thane(w)	9819399079

Enrolled Courses

Course ID	Course Name	Course Duration	Course Certification Fees
CS_101	HTML	40	5000
CS_102	CSS	40	5000
CS_103	Javascript	40	5000
CS_104	jQuery	40	6000
CS_105	PHP	40	6000

https://codeanalyser.000webhostapp.com/logout.php

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This page displays the information of user , enrolled courses and the test results given by the user.

Error Page

Code Analyser - Mozilla Firefox

codeanalyser.000webhostapp.com Code Analyser

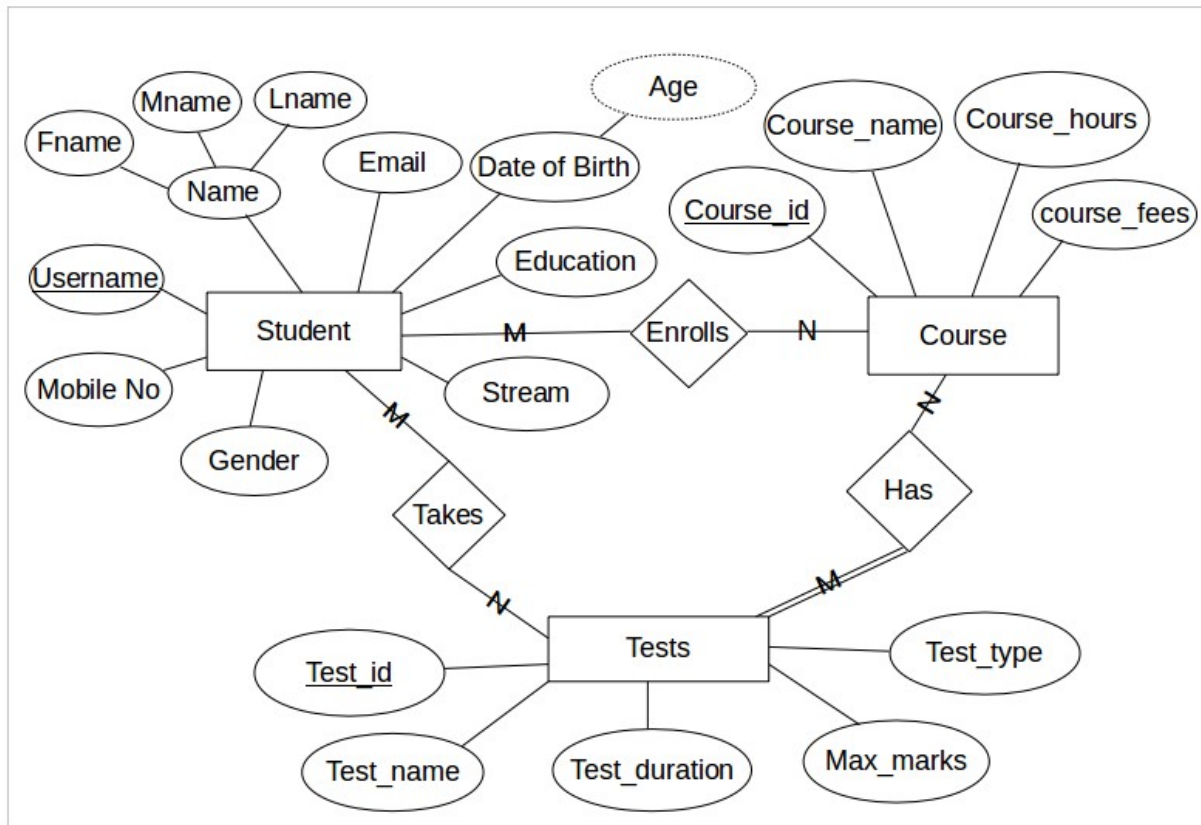
https://codeanalyser.000webhostapp.com/error_page.html

The site is Under Construction.

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If the site face some issues then this page will be displayed.

Online Tutorial System Entity Relational Model



Online Tutorial System Relational Model

students

<u>username</u>	f_name	m_name	l_name	email	education	stream	date_of_birth	gender	address	mobile no
-----------------	--------	--------	--------	-------	-----------	--------	---------------	--------	---------	-----------

login

<u>username</u>	password
-----------------	----------

courses

<u>course_id</u>	course_name	course_hours	course_certification_fees
------------------	-------------	--------------	---------------------------

course_tests

<u>test_id</u>	course_id
----------------	-----------

student_courses

<u>username</u>	<u>course_id</u>
-----------------	------------------

student_tests

username	test_id	total_questions	correct_answers	marks_obtained	total_marks
----------	---------	-----------------	-----------------	----------------	-------------

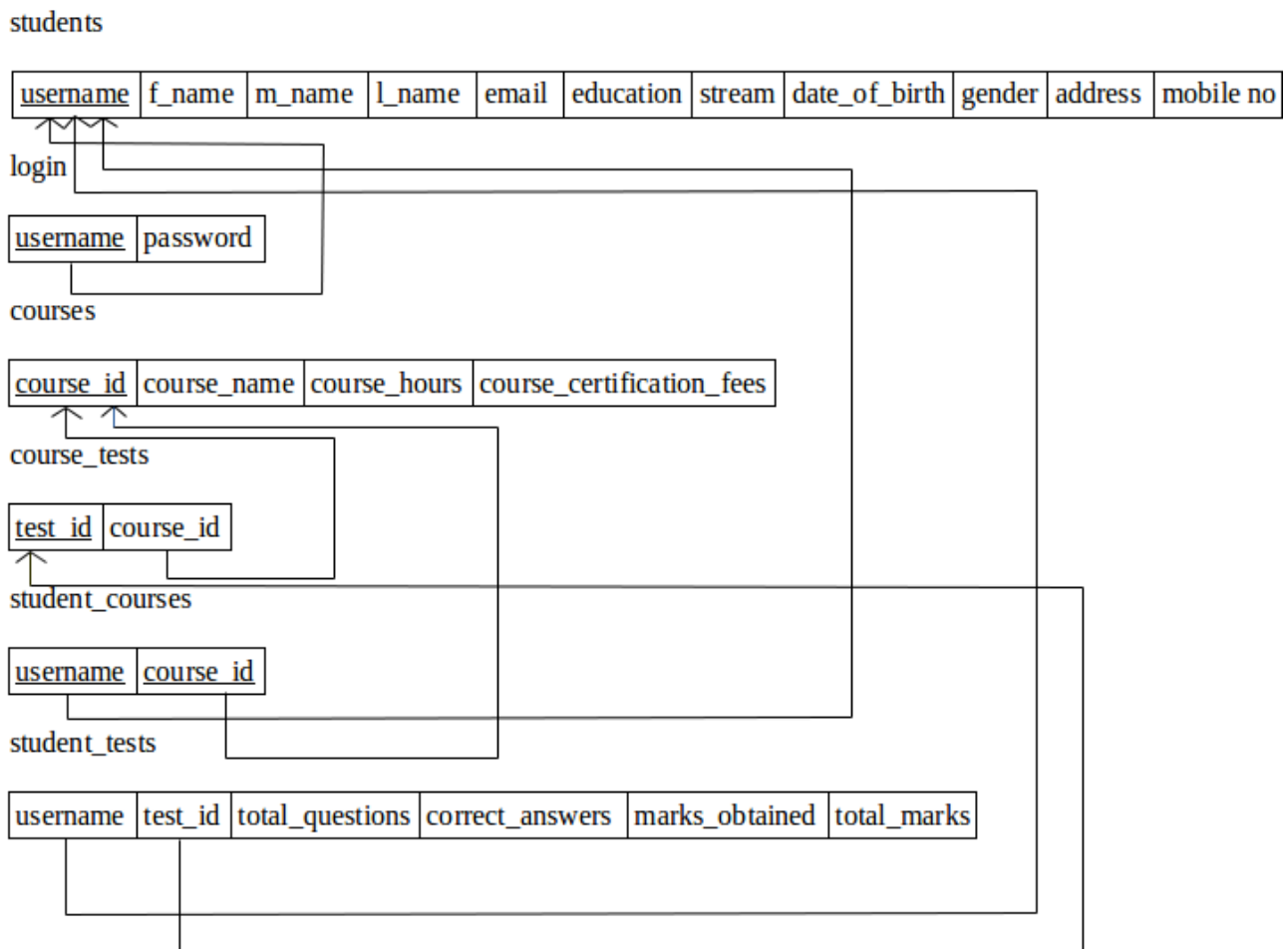


Table Creation

```

mysql_query($conn,$sql);

$sql="create table students(username varchar(40) primary key,f_name varchar(40),l_name varchar(40),email varchar(50),education varchar(40),stream varchar(40),dob date,gender varchar(10),address varchar(100),mobile_no bigint)";

mysql_query($conn,$sql);

$sql="create table login(username varchar(40) primary key,password varchar(40),foreign key(username) references students(username) on delete cascade on update cascade)";

mysql_query($conn,$sql);

$sql="create table courses(course_id varchar(40) primary key,course_name varchar(40),course_hours varchar(40),course_certification_fees varchar(40))";

mysql_query($conn,$sql);

$sql="create table student_courses(username varchar(40),course_id varchar(40),primary key(username,course_id),foreign key(username) references students(username) on delete cascade on update cascade,foreign key(course_id) references courses(course_id) on delete cascade on update cascade)";

mysql_query($conn,$sql);

$sql="create table course_tests(test_id varchar(40) primary key,course_id varchar(40),foreign key(course_id) references courses(course_id) on delete cascade on update cascade)";

mysql_query($conn,$sql);

$sql="create table student_tests(username varchar(40),test_id varchar(40),total_questions int,correct_answers int,marks_obtained int,total_marks int,foreign key(username) references students(username) on delete cascade on update cascade,foreign key(test_id) references course_tests(test_id) on delete cascade on update cascade)";

mysql_query($conn,$sql);

```

Mysql Tables

```
mysql> use Students;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_Students |
+-----+
| course_tests       |
| courses            |
| login              |
| student_courses    |
| student_tests      |
| students           |
+-----+
6 rows in set (0.00 sec)

mysql>
```

students Table

```
mysql> select * from students;
```

username	f_name	m_name	L_name	email	education	stream	dob	gender	address	mobile_no
mahesh123	Mahesh	Rajesh	Kumar	mahesh@gmail.com	BTech	Computer Engineering	1998-04-01	Male	Thane	9846274536
mohan10	Mohan	R	Patel	mohan@gmail.com	BTech	Computer Engineering	1996-04-08	Male	Mumbai	9856476364

```
2 rows in set (0.00 sec)
```


login table

```
mysql> select * from login;
+-----+-----+
| username | password |
+-----+-----+
| mahesh123 | abcd1234A |
| mohan10   | 123456@aBC |
+-----+-----+
2 rows in set (0.00 sec)

mysql> █
```

courses table

```
mysql> select * from courses;
+-----+-----+-----+-----+
| course_id | course_name | course_hours | course_certification_fees |
+-----+-----+-----+-----+
| CS_101    | HTML       | 40           | 5000                      |
| CS_102    | CSS        | 40           | 5000                      |
| CS_103    | Javascript  | 40           | 5000                      |
| CS_104    | jQuery     | 40           | 6000                      |
| CS_105    | PHP        | 40           | 6000                      |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> █
```

course_tests table

```
mysql> select * from course_tests;
+-----+-----+
| test_id | course_id |
+-----+-----+
| HTML Test 1 | CS_101 |
| HTML Test 2 | CS_101 |
| CSS Test 1  | CS_102 |
| CSS Test 2  | CS_102 |
+-----+-----+
4 rows in set (0.00 sec)

mysql> █
```

student_courses table

```
mysql> select * from student_courses;
+-----+-----+
| username | course_id |
+-----+-----+
| mahesh123 | CS_101    |
| mohan10   | CS_101    |
| mahesh123 | CS_102    |
| mohan10   | CS_102    |
| mahesh123 | CS_103    |
| mohan10   | CS_103    |
| mahesh123 | CS_104    |
| mohan10   | CS_104    |
| mahesh123 | CS_105    |
| mohan10   | CS_105    |
+-----+-----+
10 rows in set (0.00 sec)

mysql> 
```

student_tests table

```
mysql> select * from student_tests;
+-----+-----+-----+-----+-----+-----+
| username | test_id | total_questions | correct_answers | marks_obtained | total_marks |
+-----+-----+-----+-----+-----+-----+
| mahesh123 | HTML Test 1 | 5 | 4 | 4 | 5 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> 
```

References :

Websites :

- 1) <https://www.w3schools.com/>
- 2) <https://www.tutorialspoint.com/>
- 3) <https://www.youtube.com/>
- 4) <https://developer.mozilla.org/en-US/>
- 5) <https://www.w3.org/>

Books :

- 1) Developing Web Applications by Ralph Moseley , M.T. Savliya
- 2) Web Technology Black Book by Dremtech Press
- 3) Learning PHP, MySQL, JavaScript, CSS & HTML5 by Robin Nixon
- 4) Professional Rich Internet Applications : AJAX and Beyond by Dana Moore, Raymond Budd, Edward Benson
- 5) Internet and World Wide Web - How To Program by Harvey & Paul Deitel
- 6) Web Technologies by Achyut S Godbole and AtulKahate
- 7) JavaScript : The Complete Reference by Thomas A Powell , Fritz Schneider
- 8) JavaScript : The Definitive Guide by David Flanagan
- 9) The Complete Reference – PHP by Steven Holzner
- 10) PHP & MySQL in easy Steps by Mike Mcgrath