

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
“Jnana Sangama”, Belgaum -590014, Karnataka.



PROJECT WORK-2 REPORT
On

BRAINZ

Submitted by

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Under the Guidance of
Dr. LATHA N R
ASSISTANT PROFESSOR

in partial fulfillment for the award of the degree of
BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE AND ENGINEERING



B.M.S. COLLEGE OF ENGINEERING
(Autonomous Institution under VTU)
BENGALURU-560019
JUNE –September 2022

**B. M. S. College of Engineering,
Bull Temple Road, Bangalore 560019**
(Affiliated To Visvesvaraya Technological University, Belgaum)
Department of Computer Science and Engineering



CERTIFICATE

This is to certify that the project work entitled “**BRAINZ (Quiz Portal)**” carried out by **K.YASASWINI(1BM20CS066), KANKANALA APOORVA ((1BM20CS067), K.ADITYA ARVIND(1BM20CS065), INCHARA.C(1BM20CS060)** who are bonafide students of **B. M. S. College of Engineering**. It is in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visveswaraya Technological University, Belgaum during the year 2022 . The project report has been approved as it satisfies the academic requirements in respect of **Project Work-2(19CS4PWPW2)** prescribed for the said degree.

Signature of the Guide
Dr. Latha N R
Assistant Professor
BMSCE, Bengaluru

Signature of the HOD
Dr. Jyothi S Nayak
Prof & Head of Dept of CSE
BMSCE, Bengaluru

External Viva

Name of the Examiner

Signature with date

B.M.S. COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



DECLARATION

We, **K.YASASWINI(1BM20CS066), KANKANALA APOORVA ((1BM20CS067), K.ADITYA ARVIND(1BM20CS065), INCHARA.C(1BM20CS060)** students of 4th Semester, B.E, Department of Computer Science and Engineering, BMS College of Engineering, Bangalore, hereby declare that, this Project Work-2 entitled "**BRAINZ**" has been carried out by us under the guidance of Dr.LATHA.N.R, Department of CSE, B.M.S College of Engineering, Bangalore during the academic semester February-June 2021.

We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other students.

Signature

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1.INTRODUCTION

1.1 Overview

A **quiz** can be used as a brief assessment in education and similar fields to measure growth in knowledge, abilities, or skills. In an educational context, a quiz is usually a form of a student assessment.

The main objective of this quiz application is to facilitate a user friendly environment for all users and reduce the manual efforts. In the past quiz was conducted manually but with further resolution of technology we are able to generate the score and pose the queries automatically. For teachers this application is a great way to test students in more interactive and automated mode.

The functionalities of this web applications include registering the user and logging user to take the quiz created by their faculty where at the end of their quiz they get an auto generated result card having various details about the quiz. Administrative tasks include creating, updating and setting time limit for the quiz.

1.2 Motivation

The main motivation behind creating “**BRAINZ Quiz Portal**” was to provide a clean intrinsic experience of creating a quiz to faculties and taking a quiz to students. It helps users to learn new things and challenge their own knowledge. For teachers, quiz apps are a great way to test students in more interactive and automated mode.

The motivation to create this application is to get rid of the existing manual system where in users are supposed to maintain books to store various participant details such as name, quiz taken, score obtained and at the same time manual correction that requires a lot of time and many resources.

2.SOFTWARE REQUIREMENTS

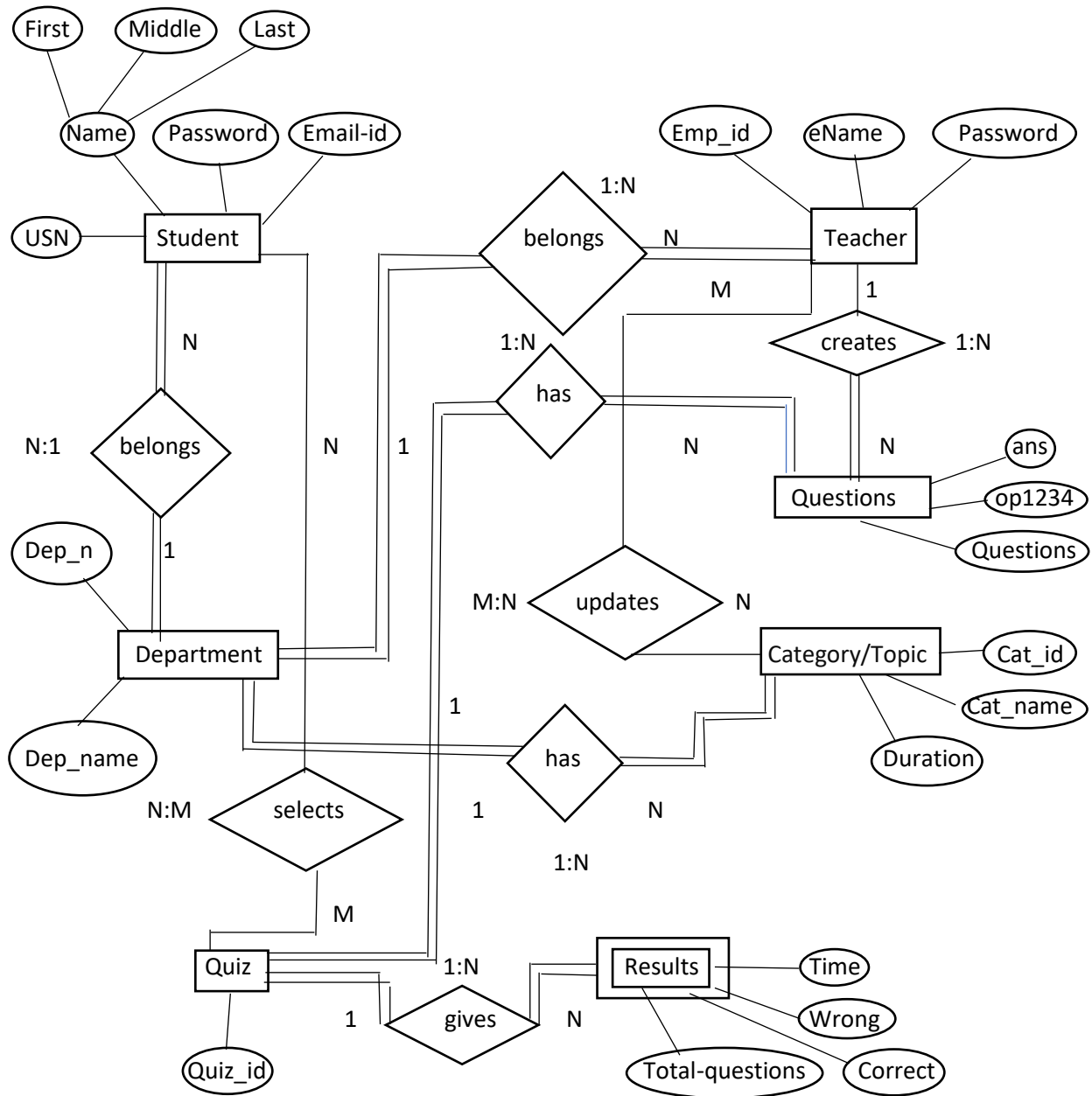
2.1 Hardware Requirements:

- A PC with the following or greater specifications:
 - Intel Core i3or higher
 - 8 GB RAM
 - 500 GB Hard Drive
- A stable internet connection (2Mbps or higher)

2.2 Software Requirements:

- Operating system : Windows, Linux
- Front end technologies are : HTML, CSS, JavaScript
- IDE : VS Code
- Back end requirement : PHP
- Server : XAMPP server

3. ER DIAGRAM OF THE PROJECT



4. SCHEMA OF THE PROJECT

STUDENT	<u>USN</u>	NAME	PASSWORD	E_MAIL	DEPARTMENT	DEP-ID
----------------	------------	------	----------	--------	------------	--------

TEACHER	<u>FACULTY-ID</u>	NAME	PASSWORD	DEP_ID
----------------	-------------------	------	----------	--------

DEPARTMENT	<u>DEPT-ID</u>	DEPARTMENT-NAME
-------------------	----------------	-----------------

QUESTIONS	<u>QID</u>	QST-NO	CAT-NO	QUESTION	OPI	OP2	OP3	OP4	ANSWER	FACILTY-ID
------------------	------------	--------	--------	----------	-----	-----	-----	-----	--------	------------

CATEGORY	<u>CAT-ID</u>	CAT-NAME	FACULTY-ID	DURATION	DEP-ID
-----------------	---------------	----------	------------	----------	--------

QUIZ	<u>QUIZ-ID</u>	USN	CAT-ID
-------------	----------------	-----	--------

RESULTS	<u>USN</u>	TOTAL-QUEST	CORRECT	WRONG	TIME	CATEGORY	<u>Q-ID</u>
----------------	------------	-------------	---------	-------	------	----------	-------------

SELECTION	<u>USN</u>	<u>QUIZ-ID</u>
------------------	------------	----------------

UPDATING	<u>FACULTY-ID</u>	<u>CATEGORY-ID</u>
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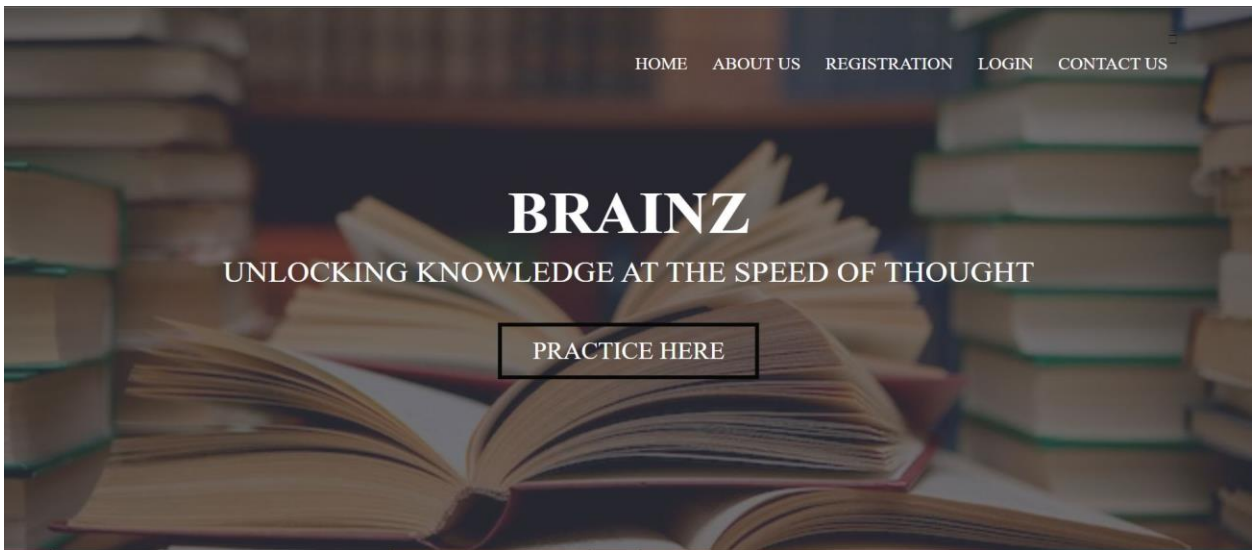
STUD-NAME	<u>USN</u>	FIRST-NAME	MID-NAME	LAST-NAME
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5.USER INTERFACE DESIGN

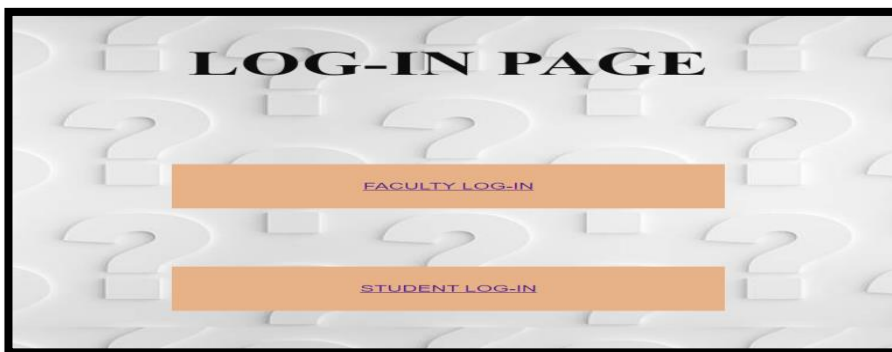
1) HOME PAGE:

The home page of the quiz consists of the

- a) Navigation bar: Navigation bar further consists of
 - i) HOME
 - ii) LOGIN
 - iii) ABOUT US
 - iv) CONTACT US
- b) Practice quiz button: This button can be clicked by any user even without logging in to access the practice quizzes which are available on a few different branches where each branch consists of some courses.



2) LOGIN SELECTION PAGE:



On clicking the login button on the navigation bar present on the home page, a page appears where the type of login can be selected → Student (or) Admin

3) ABOUT US PAGE

About us page consists of all the information regarding the Brainz website



4) CONTACT US PAGE:

Contact us page contains the contact details to be contacted when there is a problem in taking the quiz.

For any queries during the quiz contact us immediately on:

Name:K. Ysaswini
Phone:2653236274
Email id:yasaswinikalidindi@brainz.ac.in

Name:Kankanala Apoorva
Phone:2579292034
Email id:kankanalaapoorva@brainz.ac.in

Name:Inchara C
Phone:3583496325
Email id:Incharac@brainz.ac.in

Name:K Aditya Aravind
Phone:6652879387
Email id:dtfdtqgu@brainz.ac.in



5) INSTRUCTIONS :

The instructions are specified which are to be followed by the admin, student and both in general.

RULES AND REGULATIONS

UNLOCK THE GENIUS IN YOU

GENERAL

- >If you are new to the website, register to create your account.
- >After registering, go to home page and login from there using your details

PRACTICE QUIZ

- >All users can practice for quiz without log-in from the available subjects by clicking on the 'PRACTICE QUIZ' button.
- >To move to level 2, one must score more than 7 in level one.
- >One stays in level 2 irrespective of their score.

FOR FACULTY

- >Faculty must login using faculty login portal from login menu
- >Faculty can create, edit or delete quiz, questions,
- >Faculty can view the results of the students

FOR STUDENT

- >Student can create new account from register menu or log in directly.
- >Student has to select their quiz from the list of available quizzes.
- >Student can see their previous results.

ABOUT US

BRAINZ-A versatile quiz website with a array of topics to choose from
We offer u an opportunity to unlock the genius within you and feed your hunger of knowledge with
A topic for everyone-coz why not!! :)

XXXXXXXXXX

6) SUBJECT SELECTION PAGE FOR PRACTICE QUIZ:

On clicking the practice quiz button on the home page of the quiz, a page opens where the user can select the subject of choice from the list.

COMPUTER SCIENCE/INFORMATION SCIENCE

SELECT YOUR SUB-TOPIC



localhost/online-quiz/brainz-sport(gk).html





SELECT YOUR SUB-TOPIC



On selecting the required subject, instructions page is opened for the practice quiz along with the “Start Test” button.

- 1.Total number of questions:10
- 2.each question has 4 options with only one correct option
- 3.you can select only one answer from the given 4 options
- 4.Once you select your answer,it cant be undone
- 5.You can't exit from the quiz while playing
- 6.You will get points on the basis of your correct answer

ALL THE BEST!! HAPPY QUIZZING

Each quiz consists of 10 questions and the user can answer or skip the questions by clicking on the next button.

Question 6 of 10

Size of wchat_t is.

Number Of Bits In System

4

6

2

NEXT

Progress bar: 10 circles. 3rd circle is green, 7th, 8th, 9th, and 10th circles are blue.

9) RESULT SHEET OF A PRACTICE QUIZ:

After a user finish answering all the 10 questions and clicking next button of the last question, the result appears.

The result sheet consists of the following

Total number of questions, Number of correct answers, Number of wrong answers, Number of unanswered questions, Percentage, Accuracy and the level details.

The result sheet contains two buttons → “Try Again” and “Go Home”

Try Again button will shuffle the questions along with the options and quiz is appeared again.

Go Home button will navigate back to the home page.

QUIZ RESULTS

TOTAL QUESTIONS	10
ATTEMPTS	10
CORRECT	9
WRONG	1
PERCENTAGE	90%
TOTAL SCORE	9/10
LEVEL	CONGRATS!!, You got 9 out of 10 <u>YOU ARE PROMOTED TO LEVEL 2</u>

TRY AGAIN
GO HOME

10).ADMIN LOGIN PAGE:

The registered username and password should be entered in the login page by the admin to successfully login.

If the admin enters the incorrect username or password, an alert is generated.

FACULTY LOGIN

USERNAME

PASSWORD

SIGN IN

Admin Login

USERNAME

PASSWORD

SIGN IN

Invalid!Username or Password.

11)CREATE QUIZ PAGE:

After the login is successful, the admin enters a page where they can create a new quiz.

FACULTY PANEL

- Add & Edit quiz
- Add & Edit questions
- All quiz results
- Log-out

CREATE QUIZ

CREATE QUIZ

NEW QUIZ CATEGORY

Enter the course name

QUIZ TIME IN MINUTES

Enter the quiz duration in minutes

create

QUIZ CATEGORIES

#	QUIZ COURSE	QUIZ DURATION	EDIT	DELETE
1	DBMS 1	153	edit	delete
2	demo1	15	edit	delete
3	kannada	10	edit	delete
4	showing	10	edit	delete

Two details are required for creating a new quiz which are taken from the admin,ie, name of the quiz and time duration for the quiz.

After creating a new quiz, it appears on the table which is present on the right side of the page along with the already existing quizzes. In the table each quiz has two options → edit and delete.

On clicking “delete”, the quiz is deleted and the table in the page is updated.

On clicking “edit”, a new page is opened where the selected quiz can be edited.

12) EDIT QUIZ PAGE:

On clicking the edit quiz option, this page is opened where the admin can enter the new name for quiz or duration for quiz for the selected quiz category.

EDIT QUIZ

EDIT QUIZ

NEW QUIZ

DBMS 1

Time in Minutes

153

Update Exam

13)ADD AND EDIT QUESTIONS:

On selecting add & edit questions option on the left side menu, a page is opened with all the available quiz categories and there is a select option for all the quiz categories.

On selecting the “select” option for a quiz, a new page is opened where questions can be added to the selected quiz category.

The screenshot shows a web application interface for adding questions to a quiz category named 'DBMS 1'. On the left is a dark sidebar with navigation links: 'Add & Edit quiz', 'Add & Edit questions', 'All quiz results', and 'Log-out'. The main area is titled 'ADD QUESTIONS TO DBMS 1' and contains two forms. The first form, 'ADD NEW QUESTIONS WITH TEXT', includes fields for a question and up to four options, plus an answer field. The second form, 'ADD NEW QUESTIONS WITH IMAGE', includes fields for a question and up to four options, each with a file upload button labeled 'Choose File' and the text 'No file chosen'.

14)ADD QUESTIONS PAGE:

In this page there are two different tables available for adding questions and options along with the correct answer.

One table is used to add questions with text options and other table is used to add questions with image options. After a question is added it gets updated in the table at the bottom of the page which consists of all the questions present in the quiz → both the text and the image

Each question has two options → “delete” and “edit”.

On clicking the delete option, the question is deleted and is updated in the table.

On clicking the edit option, a new edit page is opened where the question selected can be edited.

No	Question	Opt1	Opt2	Opt3	Opt4	Edit	Delete
1	5+1=?	1	2	3	6	Edit	Delete

15)STUDENT EXAM RESULTS:

On selecting the option on the menu, all the results of the student along with username is displayed.

PREVIOUS QUIZ RESULTS					
username	exam type	total questions	correct answers	wrong answers	exam time
latha	demo1	0	0	0	2022-08-28
LATHA	demo1	0	0	0	2022-08-24
LATHA	kannada	3	0	3	2022-08-24
LATHA	kannada	3	0	3	2022-08-24
LATHA	kannada	3	0	3	2022-08-24
LATHA	demo1	0	0	0	2022-08-24
LATHA	kannada	3	0	3	2022-08-20
LATHA	demo1	0	0	0	2022-08-20
LATHA	demo1	0	0	0	2022-08-20
latha	demo1	0	0	0	2022-08-08
latha	kannada	3	0	3	2022-08-08
latha	kannada	3	0	3	2022-08-08
latha	DBMS 1	1	0	1	2022-08-08

On selecting the logout button, the account of the admin is logged out and the login page again appears.

16)STUDENT LOGIN PAGE:

On selecting the student login on the main login selection page, student login page is opened. The student username and password are accepted from the student and if the username and password match to the registered username and password, the login is successful. If the student enters incorrect username or password, the login fails and an alert appears.

The login page also includes the register page where a new registration can be made.

LOGIN FORM

Username

username

Password

Login

Register

LOGIN FORM

Username

username

Password

Login

Register

Does not Match!Invalid username or password.

Register Now

FirstName

LastName

Username

Password

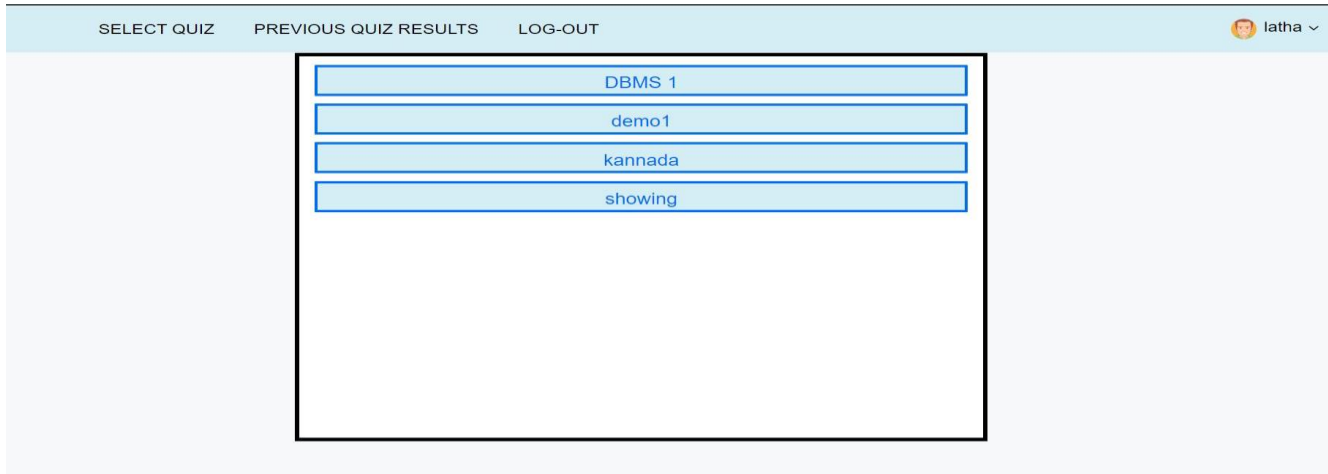
Email

Contact

Register

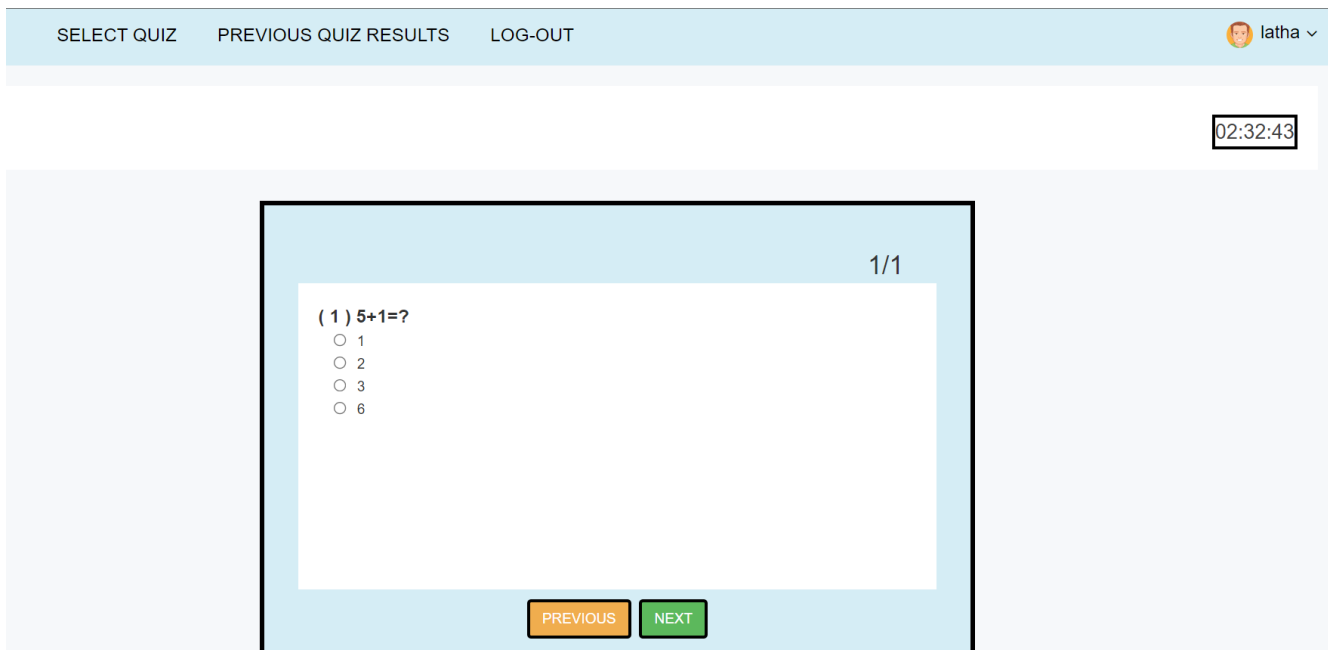
17) SELECT QUIZ PAGE:

After a student login, the list of all the subjects created by the admin appears where the student can select a quiz from the list.




18)MAIN QUIZ PAGE:

After the subject quiz is selected, the quiz questions are displayed, and the student can answer the questions or skip any question by clicking on the next and previous buttons of each question. The countdown timer is also displayed on the top right corner of the screen and is equal to the time given by the admin. The quiz ends if the user clicks the next button of the last question or if the time comes down to 00:00.



19)RESULT PAGE:

After the quiz ends, the result sheet is displayed which consists of the total number of questions, number of correct answers and number of wrong answers.

[SELECT QUIZ](#) [PREVIOUS QUIZ RESULTS](#) [LOG-OUT](#)  latha ▾

RESULTS


USER NAME:latha
TOTAL QUESTIONS:0
CORRECT ANSWERS:0
WRONG ANSWERS:0

DESIGNED AND DEVELOPED BY BRAINZ GROUP

20)LAST EXAM RESULTS:

When the student selects the “last exams” results option, the page opens where all the old exam results of the particular student is displayed.

On clicking the logout option, the student account is logged out and the login page appears.

[SELECT QUIZ](#) [PREVIOUS QUIZ RESULTS](#) [LOG-OUT](#)  latha ▾

PREVIOUS QUIZ RESULTS

username	exam type	total questions	correct answers	wrong answers	exam time
latha	demo1	0	0	0	2022-08-28
LATHA	demo1	0	0	0	2022-08-24
LATHA	kannada	3	0	3	2022-08-24
LATHA	kannada	3	0	3	2022-08-24
LATHA	kannada	3	0	3	2022-08-24
LATHA	demo1	0	0	0	2022-08-24
LATHA	kannada	3	0	3	2022-08-20
LATHA	demo1	0	0	0	2022-08-20
LATHA	demo1	0	0	0	2022-08-20
latha	demo1	0	0	0	2022-08-08
latha	kannada	3	0	3	2022-08-08
latha	kannada	3	0	3	2022-08-08
latha	DBMS 1	1	0	1	2022-08-08

REFERENCES

- 1) <https://www.geeksforgeeks.org/php-tutorials/#:~:text=It%20is%20a%20server%20side,directly%20executed%20on%20the%20browser.>
- 2) <https://www.javatpoint.com/php-tutorial>
- 3) <https://www.tutorialspoint.com/php/index.htm>
- 4) https://www.udemy.com/course/ultimate-web/?gclid=CjwKCAjwsfuYBhAZEiwA5a6CDAoLLwYvZ08OeUADLwXVNIitVHI2nZTJFaCCinzXqgEbxpnLgxmOfBoCxNoQAvD_BwE&matchtype=p&utm_campaign=WebDevelopment_v.PROF_la.EN_cc.INDIA_ti.8322&utm_content=deal4584&utm_medium=udemyads&utm_source=adwords&utm_term=.ag_82381207138_.ad_533094292026_.kw_learn+web+development+online_.de_c_.dm_.pl_.ti_kwd-323743377754_.li_9062044_.pd_.