

EXAMINATION MANAGEMENT PORTAL

Team 6

<i>Abhay Rao</i>	<i>19BCS002</i>
<i>Abhisek Rana</i>	<i>19BCS003</i>
<i>Abhishek Arya</i>	<i>19BCS004</i>
<i>Anuj Kulkarni</i>	<i>19BCS012</i>
<i>Mahesh Parihar</i>	<i>19BCS066</i>
<i>Niranjan Meghwal</i>	<i>19BCS078</i>
<i>Pranav KM</i>	<i>19BCS088</i>
<i>Ravi Shankar Sharma</i>	<i>19BCS091</i>

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INTRODUCTION:

Online examinations provide teachers with an environment wherein they can focus on creating a test and effectively review and assess students.

But even this has its limits as students easily can just easily search for any question they require thus proving it difficult for the teacher to provide these students with fair grades.

But what if we just block the way they get to conduct these searches?

That is exactly what our application attempts to do!

Examination Management Portal can run on an Apache server (used during development) to conduct examinations in a LAN network, resulting in no access to the internet. Even if the internet access is turned on, students are restricted of the ability to copy or paste during the test duration.

To learn more of such features, continue reading this report to the very end!

SYSTEM ANALYSIS:

1. Existing System

Existing online examination platforms may provide users with a many more options as for question types and such but they all lack in the areas mentioned below.

DISADVANTAGES:

1. Since students are connected to the internet, they can just search for the questions.
2. Usually, once a test has been uploaded it cannot be altered.
3. Students have to wait a while to get their answers/marks.
4. A teacher may not have the ability to view the key to the paper.
5. Marks cannot be altered with after the test has been conducted.
6. Loopholes allow non-intended users to register with the program.
7. No Case for late submissions.

2. Proposed System

This application is used to conduct online examination in a way that is designed and thought out to be convenient and reliable.

Students can sit at individual terminals within a LAN network and login to write the exam in the given duration thus preventing any means of copying. If in case the network was still connected to the internet, the application prevents the student from copying the question.

This application will perform correction, display the result immediately (objective only), provide teachers with a means to correct descriptive style questions, add or remove marks of a particular student as per convenience and also store it all in a database.

This application provides the administrator with the facility to add new users thus ensuring no means of unwanted users.

This application provides the teacher to add questions to the exam, modify questions in the exam for upcoming ones without having to delete the whole quiz and start over.

This application takes care of authentication of the administrator, teacher as well as the student through a One Time Password system.

3. Objective of the System

The objective of the Examination Management Portal is to provide a better experience for the users of this system than any other applications out there and to make up for any drawbacks that users face with them.

Software Requirements: -

Operating System: Windows*

Web-Technology: PHP

Front-End: HTML, CSS, JAVASCRIPT

Back-End: MySQL

Web Server: Apache Server*

*(Used during development)

EXAMINATION MANAGEMENT PORTAL

MODULES:

1. ADMIN MODULE:

- 1.SIGN UP: The admin has to sign up for the very first time they access their account.
- 2.LOGIN: The Registered User Can be allowed to view inner details for which they are permitted.
- 3.CHANGE PASSWORD: User has the ability to modify their login details.
- 4.ADD/REMOVE STUDENT: An admin has the ability to add (requires registration number and email) and remove (requires either registration number or email) students from the students list.
- 5.ADD/REMOVE TEACHER: An admin has the ability to add (requires email) and remove (requires email) teachers from the teachers list.
- 6.ADD/REMOVE ADMIN: An admin has the ability to add (requires email) and remove (requires email) other admins from the teachers list.

2. TEACHER MODULE:

- 1.SIGN UP: The teacher has to sign up for the very first time they access their account.
2. LOGIN: The Registered User Can be allowed to view inner details for which they are permitted.
- 3.CHANGE PASSWORD: User has the ability to modify their login details.
4. ADD/REMOVE TEST: Teachers have the ability to set a test on any date and remove any upcoming ones they created.
- 5.EDIT UPCOMING TESTS: Teachers can add/remove questions from the upcoming tests they created.
- 6.EVALUATE DESCRIPTIVE STYLE QUESTIONS: Teachers can evaluate answers sent by a student for any descriptive type question.
- 7.AWARD OR REMOVE MARKS LATER ON AS PER CONVINIENCE: Teachers can add or subtract marks of student for any test conducted in the past as per their convenience. Also students are marked red and green as per their submission times.

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8.VIEW RANKLIST: A teacher can view a rank list and check the rank of students for every exam they conducted.

3. STUDENT MODULE:

1.SIGN UP: The student has to sign up for the very first time they access their account.

2.LOGIN: The Registered User Can be allowed to view inner details for which they are permitted.

3.CHANGE PASSWORD: User has the ability to modify their login details.

4.CHOOSE COURSES: Students have to set their courses in order to attempt the tests set by their respective teachers.

5.GIVE TESTS: Students have their tests ordered by their courses. Within these they can view present, upcoming and past tests.

6.VIEW ANSWER KEY: Students can instantly view answer keys to the test they have given upon completion.

7.VIEW RANKLIST: Students can instantly view the rank list (only objective) to a test upon submission.

MEMBER ROLES

Sign in & Sign up: Pranav KM

Profile: Mahesh Parihar

Student Side: Abhisek Rana, Niranjana Meghwal

Teacher Side: Abhishek Arya, Abhay Rao

Rank list & Descriptive Marks Allotment:

Ravi Sharma, Anuj Kulkarni

TECHNOLOGIES USED

During Development:

PHP

HTML

JAVASCRIPT

MySQL

XAMPP

APACHE

PHPMyAdmin

During Deployment:

Github

Heroku

Remote Mysql

EXAMINATION MANAGEMENT PORTAL

DATABASE TABLES:

ADMIN LIST TABLE

#	Name	Type	Null	Default	Comments	Extra
1	id	int(25)	No	<i>None</i>		AUTO_INCREMENT
2	email	text	No	<i>None</i>		
3	name	text	Yes	<i>NULL</i>		

STUDENT LIST TABLE

#	Name	Type	Null	Default	Extra
1	id	int(25)	No	<i>None</i>	AUTO_INCREMENT
2	email	text	No	<i>None</i>	
3	student_id	text	Yes	<i>NULL</i>	
4	name	text	Yes	<i>NULL</i>	
5	courses_no	int(2)	No	0	
6	course_1	varchar(255)	No	-	
7	course_2	varchar(255)	No	-	
8	course_3	varchar(255)	No	-	
9	course_4	varchar(255)	No	-	
10	course_5	varchar(255)	No	-	
11	course_6	varchar(255)	No	-	
12	course_7	varchar(255)	No	-	
13	course_8	varchar(255)	No	-	

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#	Name	Type	Null	Default	Extra
14	course_9	varchar(255)	No	-	

TEACHER LIST TABLE

#	Name	Type	Null	Default	Extra
1	id	int(25)	No	<i>None</i>	AUTO_INCREMENT
2	name	text	Yes	<i>NULL</i>	
3	email	text	No	<i>None</i>	

USER SIGN TABLE

#	Name	Type	Null	Default	Extra
1	id	int(25)	No	<i>None</i>	AUTO_INCREMENT
2	email	varchar(255)	No	<i>None</i>	
3	password	varchar(255)	No	<i>None</i>	
4	role	varchar(255)	No	<i>None</i>	
5	signstatus	int(2)	No	<i>None</i>	

QUESTION TABLE

#	Name	Type	Null	Default	Extra
1	question_id	text	No	<i>None</i>	
2	text	text	No	<i>None</i>	
3	quiz_id	text	No	<i>None</i>	
4	type	tinyint(1)	No	<i>None</i>	
5	pmarks	int(11)	No	<i>None</i>	

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#	Name	Type	Null	Default	Extra
6	nmarks	int(11)	No	<i>None</i>	

QUESTION OPTION TABLE

#	Name	Type	Null	Default
1	option_id	text	No	<i>None</i>
2	text	text	No	<i>None</i>
3	is_correct	tinyint(1)	No	<i>None</i>
4	question_id	text	No	<i>None</i>

QUIZ TABLE

#	Name	Type	Null	Default
1	quiz_id	text	No	<i>None</i>
2	created_for	text	No	<i>None</i>
3	name	varchar(50)	No	<i>None</i>
4	start_time	datetime	No	<i>None</i>
5	end_time	datetime	No	<i>None</i>
6	created_by	text	No	<i>None</i>

STUDENT MARKS TABLE

#	Name	Type	Null	Default
1	student_id	text	No	<i>None</i>
2	quiz_id	text	No	<i>None</i>
3	marks_sub	int(11)	No	<i>None</i>

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#	Name	Type	Null	Default
4	marks_obj	int(11)	No	<i>None</i>
5	sub_time	datetime	No	<i>None</i>

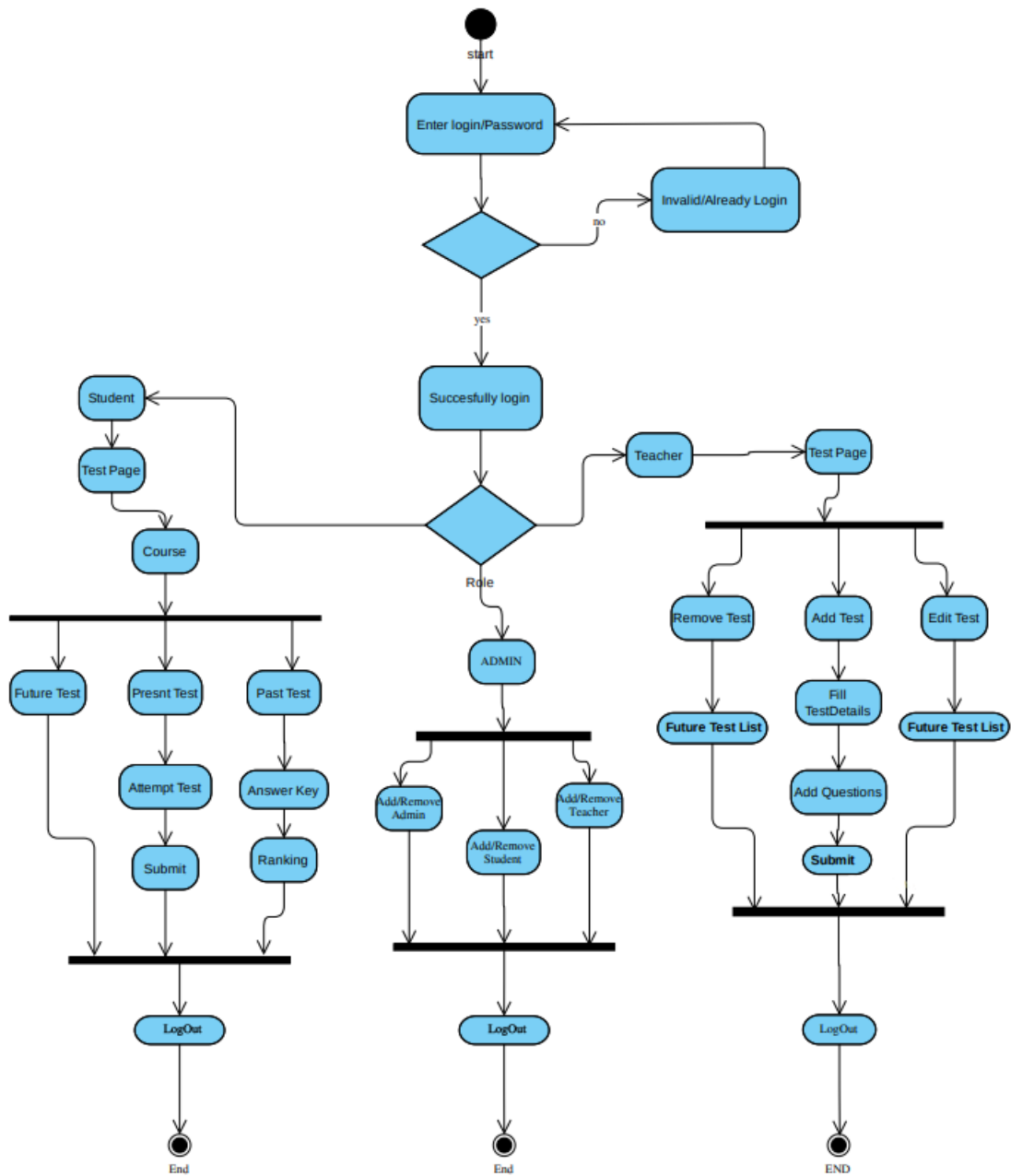
STUDENT RESPONSE DES TABLE

#	Name	Type	Null	Default
1	student_id	text	No	<i>None</i>
2	quiz_id	text	No	<i>None</i>
3	question_id	text	No	<i>None</i>
4	answer	text	No	<i>None</i>
5	is_corrected	tinyint(1)	No	<i>None</i>

STUDENT RESPONSE OBJ TABLE

#	Name	Type	Null	Default
1	student_id	text	No	<i>None</i>
2	quiz_id	text	No	<i>None</i>
3	question_id	text	No	<i>None</i>
4	option_id	text	No	<i>None</i>

DIAGRAMS



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