

Shri Khanderai Pratishthan's DNYANSAGAR INSTITUTE OF MANAGEMENT & RESEARCH, PUNE

A Project Report

on

Online Examination

System

by

Seat No	Name Of Student
4256	Landge Prathmesh Gokul

MCA – I (SEM-I) 2024-2025

To

Savitribai Phule Pune University Pune- 411041

In Partial Fulfilment of the Degree of Master in Computer Application (M. C. A.)

Under The Guidance Of

Prof. Manoj Patil



DNYANSAGAR INSTITUTE OF MANAGEMENT & RESEARCH

Date:

CERTIFICATE

This is to certify that **Mr. Landge Prathmesh Gokul** have successfully completed his project work entitled "**Online Examination System**" in partial fulfilment of MCA – I (Semester-I) program for the year A.Y. 2024-2025 to Savitribai Phule Pune University. He had worked under our guidance and direction.

Prof. Manoj Patil

Project Guide

Internal Examiner External Examiner

Dr. Sajid Alvi Director **DECLARATION**

To,

The principal,

DIMR, Pune

Respected Sir,

I hereby declare that the project entitled "Online Examination System"

developed under the guidance of **Prof. Manoj Patil** is my original work. The reports

generated in the project work are based on the information collected by me. I have not

copied from any other project report submitted to SPPU earlier. The work has been

submitted in partial fulfilment of the requirement of degree Master of Computer

Application (MCA) to Savitribai Phule Pune University.

Student Name: Landge Prathmesh Gokul

Place: Pune

Date:

ACKNOWLEDGMENT

This work has been during project period, present project work method of education is really good opportunity to put theoretical knowledge into a planned exercise with on aim to solve a real-life business problem and also develop confidence to face various situations.

I thanks to **Dr. Sajid Alvi** (**Director DIMR**) for providing congenial atmosphere and encouragement. I express my sincere thanks for giving me moral support and has kind attention and valuable guidance to me throughout this course.

I would like to express my deep and foremost gratitude to my **Internal Project Guide Prof. Manoj Patil** has always been a source of inspiration and motivation for me. I would like to thank all my friends who have been always there to help me, and also who helped me directly or indirectly in completion for this project.

Thank You,

Student Name

Landge Prathmesh Gokul

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CHAPTER 1

INTRODUCTION

Online Examination System is a System for Multiple-Choice Questions (MCQ) based examination System. It is also a digital platform designed to manage and conduct exams over the internet. This system allows educational institutions, certification bodies, and businesses to administer tests and assessments efficiently and securely. An Online Examination System revolutionizes the traditional exam process by leveraging technology to create a more efficient, secure, and accessible assessment environment. By incorporating advanced features and maintaining a user-centred approach.

An Online Examination System is a structured method used to assess the knowledge, skills, and abilities of individuals through tests or exams. This system can be implemented in various formats, including written, oral, and practical exams, and can be conducted in physical locations or online.

Online Examination Systems are widely used in various industries and have become an indispensable tool in modern education and vocational training. It has become a regular choice not only in schools and universities in the field of education, but is also widely used in areas such as businesses, government departments and professional certification organizations.

An Online Examination System features that people commonly use, covering exam management, question bank management, personnel management, grading, anti-cheating, learning support, statistics, and analysis, reporting and certificate generation, and so on. By understanding these features, you will be able to choose an online exam system that suits your needs, enhances learning and assessment, and drives personal and organizational development and success.

EXISTING SYSTEM

The existing system of conducting examination process is manual. Existing system is a large man power process and is difficult to implement it at different platform. It has so many problems. So, we introduce an Online Examination System, which is fully computerized. Existing system is a large man power process and is difficult to implement.

Disadvantages of existing System:

- The existing systems are very time consuming.
- Results are not precise as calculations and evaluations are done manually.
- Organizing physical exam centres, transporting exam papers, and arranging invigilators can be complex and time-consuming.
- High costs are associated with venue booking, printing, and distributing exam materials.
- Candidates need to travel to specific exam centres, which can be challenging for those living in remote areas or with mobility issues.
- Fixed exam schedules may not accommodate all candidates, leading to inconvenience.
- Physical papers are susceptible to loss, theft, or tampering.
- Cheating and malpractice can be more challenging to monitor and control in large exam halls.
- High usage of paper for printing exam papers and answer sheets contributes to deforestation and environmental degradation.
- Carbon footprint from transportation and venue energy consumption.
- Once scheduled, changing exam dates or venues can be difficult and inconvenient.
- Susceptible to errors in manual grading and result compilation.
- Possibility of biased evaluation and inconsistencies in marking.

NEED FOR SYSTEM

An Online Examination System offers a multitude of benefits that address the limitations and challenges of traditional offline examination systems. Here is a brief overview of why there is a growing need for Online Examination System:

1. Accessibility and Convenience:

- o Anytime, anywhere: Candidates can take exams from any location with internet access, eliminating the need for physical exam centres.
- o Flexible Scheduling: Exams can be scheduled at times that are convenient for candidates, accommodating different time zones and personal schedules.

2. Efficiency and Speed:

- o Automated Processes: Registration, scheduling, and grading are automated, significantly reducing the administrative workload.
- o Instant Feedback: Immediate scoring for objective questions allows candidates to receive instant feedback on their performance.

3. Cost-Effectiveness:

- Reduced Costs: Eliminates expenses related to physical exam venues, printed materials, and logistics.
- Scalability: Can accommodate many candidates simultaneously, making it suitable for institutions of all sizes.

4. Enhanced Security:

- o Proctoring: AI-based proctoring and secure browsers help prevent cheating and ensure exam integrity.
- Data Encryption: Secure data storage and transmission protect sensitive candidate information.

5. Environmentally Friendly:

o Paperless Exams: Reduces the need for paper, contributing to environmental sustainability.

6. Comprehensive Data and Analytics:

- o Performance Tracking: Advanced analytics track candidate performance and generate insightful reports.
- Data-Driven Decisions: Helps educators and administrators make informed decisions to improve the exam process and curriculum.

7. Adaptability:

Adaptive Testing: Adjusts the difficulty of questions based on the candidate's performance, providing a personalized assessment experience.

OPERATING ENVIRONMENT: HARDWARE AND SOFTWARE

The **Online Examination System** requires specific hardware and software configurations to function optimally. Below is an overview of the recommended operating environment.

HARDWARE AND SOFTWARE

	1. Server (for hosting the application)
	 Processor: Intel Core i5 or equivalent (or
	higher)
	■ RAM: 8 GB (minimum)
	• Storage: 500 GB HDD or SSD
	(minimum)
	 Network: Stable internet connection (at
	least 10 Mbps)
	• Operating System: Windows, Linux, or
	macOS (for hosting)
	macos (for nosting)
HARDWARE REQUIREMENTS	2. Client Machine (for users and administrators)
	• Processor: Intel Core i3 or equivalent (or
	higher)
	• RAM: 4 GB (minimum)
	• Storage: 200 GB (minimum, for caching
	and user data)
	■ Display: 1024x768 resolution or higher
	• Network: Reliable internet connection
	(minimum 5 Mbps)
	Operating System: Windows10
	Browser: chrome
	 Editor: Vs Code, PyCharm
SOFTWARE REQUIREMENTS	• Frontend: HTML5, CSS3, JavaScript
	■ Backend: Python, MySQL

TECHNOLOGY

The Online Examination System leverages a combination of modern technologies to ensure a robust, user-friendly, and efficient application. Below are the key technologies utilized in the development and functioning of the system:

BACKEND TECHNOLOGIES

1. Programming Language:

• **PHP:** Used for server-side programming due to its readability, simplicity, and the availability of powerful frameworks.

3. Database:

MySQL: A widely-used relational database management system (RDBMS) that provides robust data storage, retrieval, and management capabilities. It supports SQL queries, making it suitable for complex data operations.

4. Server Software:

Apache: Web server software used to serve the application over the internet. It is known for their its performance and scalability.

FRONTEND TECHNOLOGIES

1. Markup Language:

HTML5: Used for structuring content on the web. It provides the backbone of the user interface, allowing for the creation of forms, tables, and navigation elements.

2. Styling:

CSS3: Used for styling and layout of the web pages, ensuring a visually appealing and responsive design. It allows for customization of colours, fonts, and spacing.

3. JavaScript:

JavaScript:

 JavaScript: Laravel is a powerful PHP framework designed for web artisans, offering elegant syntax and robust features to streamline web application development.

4. Responsive Design Framework:

Bootstrap: A front-end framework that provides pre-designed components and a grid system for creating responsive layouts, ensuring the application is accessible on various devices.

CHAPTER 2

PROPOSED SYSTEM

The main objective of the Online Examination System is that it helps educational institutions and corporate world to conduct exams to any number of candidates at a time, in an automated manner. It reduces the time consumption and workload that exists in the current system of examination. It also helps is storing the record of each examination and the results are also stored in the system. This makes searching of the records easier as compare to existing system.

Candidate should be able to take exams from anywhere with an internet connection, using various devices. Automate the entire examination process, including registration, scheduling, question delivery, and scoring, to save time and reduce administrative workload. Implement robust security measures to ensure exam integrity and prevent cheating.

It will allow candidates to register and create profiles. It will support different roles such as administrators, examiners, and candidates. To use secure login mechanisms to verify user identities. Maintain a repository of questions categorized by subject and difficulty.

It will allow administrators to create and configure exams, including setting time limits, randomizing questions, and defining scoring rules. It enables flexible exam scheduling with options for fixed-time exams and on-demand exams.

To use secure browsers to restrict candidates from accessing other applications or websites during the exam. Automatically grade objective questions and provide immediate feedback to candidates. Generate detailed reports on candidate performance, question difficulty, and overall exam statistics.

Track and analyse candidate performance to identify trends and areas for improvement. Provide actionable insights for educators and administrators to improve the exam process and curriculum design.

Ensure the system is accessible on various devices, including desktops, tablets, and smartphones.

MODULE SPECIFICATION

1. User Management Module

- Roles and Permissions: Manage user roles (e.g., admin, examiner, candidate) and define access levels.
- Registration: Allow new users to register and create profiles.
- Authentication: Secure login and authentication mechanisms.

2. Exam Management Module

- Exam Creation: Design and configure exams, including setting questions, time limits, and exam rules.
- Scheduling: Plan and schedule exams, set start and end times, and manage exam slots.

3. Question Bank Module

- Question Management: Add, edit, and delete questions.
- Categorization: Organize questions by subject, difficulty level, and type (e.g., multiple-choice, short answer, essay).

4. Exam Conduct Module

- Exam Delivery: Present questions to candidates during the exam.
- Timer Management: Display and manage countdown timers for each exam session.
- Navigation Controls: Allow candidates to navigate between questions.

5. Proctoring and Security Module

• Secure Browsing: Implement secure browsers to restrict access to other applications and websites.

6. Grading and Feedback Module

- Automated Grading: Instantly grade multiple-choice questions.
- Feedback: Provide immediate feedback to candidates on their performance.

7. Reporting and Analytics Module

- Performance Reports: Generate detailed reports on candidate performance.
- Exam Statistics: Analyse data on question difficulty, exam trends, and overall performance.
- Customizable Reports: Create reports tailored to different stakeholders (e.g., educators, administrators).

8. Notification and Communication Module

- Email Notifications: Send automated email notifications for exam schedules, reminders, and results.
- Announcements: Publish important announcements related to exams and schedules.

9. Data Management and Backup Module

- Data Storage: Securely store exam data, user data, and results.
- Backup: Regularly back up data to prevent loss and ensure data integrity.

SCOPE OF THE SYSTEM

Scope of Online Examination System:

The scope of an Online Examination System encompasses a wide range of functionalities and applications, designed to streamline the assessment process for educational institutions, certification bodies, and businesses. Here are some key aspects of its scope:

1. Comprehensive Exam Management:

- Question Bank Management: Creation, categorization, and storage of a wide variety of question types, including multiple-choice, short answer, essay, and multimedia questions.
- Exam Creation and Configuration: Designing exams with customizable settings such as time limits, randomization, and adaptive testing.

2. User Management:

- Role-Based Access: Different access levels for administrators, examiners, and candidates, ensuring secure and appropriate access to functionalities.
- Registration and Authentication: Secure registration processes and login mechanisms for candidates.

3. Conducting Exams:

- Remote Accessibility: Candidates can take exams from anywhere with internet access, using various devices such as desktops, tablets, and smartphones.
- Proctoring: Advanced proctoring solutions, including AI-based monitoring and secure browsers, to maintain the integrity of exams.

4. Automated Processes:

- Automated Grading: Instant grading of objective questions, providing immediate feedback to candidates.
- Result Compilation: Efficient compilation and analysis of results, reducing administrative workload.

5. Data Analytics and Reporting:

- Performance Tracking: Detailed analytics on candidate performance, question difficulty, and exam trends.
- Customizable Reports: Generation of reports for different stakeholders, including educators, administrators, and accreditation bodies.

6. Integration and Compatibility:

- LMS Integration: Seamless integration with Learning Management Systems (LMS) for a unified learning and assessment experience.
- API Support: APIs for integrating with other systems and platforms, enabling data exchange and interoperability.

7. Security Measures:

- Data Encryption: Secure storage and transmission of sensitive data to prevent unauthorized access.
- Fraud Prevention: Measures to detect and prevent cheating, including secure browsers and proctoring.

8. Flexibility and Adaptability:

- Customizable Exams: Tailored exams to suit different subjects, difficulty levels, and assessment needs.
- Adaptive Testing: Adjusting question difficulty based on candidate performance for a personalized assessment experience.

9. Scalability:

- Handling Large Volumes: Capable of supporting many candidates simultaneously, making it suitable for institutions of all sizes.
- Cloud-Based Solutions: Leveraging cloud infrastructure for scalability and reliability.

10. Environmental and Cost Benefits:

- Paperless Exams: Reducing the need for printed materials, contributing to environmental sustainability.
- Cost-Effective: Lowering costs associated with physical exam venues, printing, and logistics.

OBJECTIVE OF THE SYSTEM

1) Economic Feasibility:

• Reduced Operational Costs:

Elimination of Physical Venues: No need to rent or maintain physical exam centres, reducing venue costs.

Lower Printing Costs: No requirement for printed exam papers, answer sheets, and other materials, leading to significant savings on printing and distribution.

• Reduced Travel and Accommodation Costs:

Remote Access: Candidates can take exams from their own locations, eliminating travel and accommodation expenses for both candidates and invigilators.

• Lower Environmental Impact:

Paperless Exams: Reduces the need for paper, contributing to environmental sustainability and potentially reducing waste management costs.

• Efficient Use of Resources:

Better Utilization of Human Resources: Staff can focus on more value-added tasks rather than administrative chores.

Optimal Use of Technology: Leverages existing technology infrastructure, reducing the need for additional investments.

2)Time Flexibility:

• On-Demand Scheduling:

Candidates can take exams at a time that suits them, rather than adhering to a fixed schedule. This is particularly beneficial for working professionals and students with busy schedules.

Asynchronous Exam Sessions:

Multiple Time Zones: Supports candidates from different time zones by allowing them to take the exam at different times, ensuring fairness and accessibility.

Individual Start Times: Candidates can start the exam individually rather than all starting at the same fixed time, reducing the pressure, and accommodating personal schedules.

• Flexibility in Duration:

Variable Time Limits: Allows different time limits for different exams or candidates based on their needs. For instance, candidates with special needs might be given additional time to complete the exam.

3) Technically Feasible:

A. Cloud Computing:

- Scalability: Cloud platforms like AWS, Google Cloud, and Azure provide scalable resources that can handle varying loads, ensuring that the system can accommodate many candidates simultaneously.
- Reliability: Cloud services offer high availability and redundancy, reducing the risk of downtime and ensuring that the exam system is always accessible.

B. Web Technologies:

- Responsive Design: Using HTML, CSS, and JavaScript frameworks (e.g., React, Angular) to create responsive web applications that work seamlessly on various devices, including desktops, tablets, and smartphones.
- API Integration: RESTful APIs facilitate communication between the frontend and backend, allowing for efficient data exchange and integration with other systems like Learning Management Systems (LMS).

C. Security Measures:

- Data Encryption: Implementing SSL/TLS encryption to secure data transmission between the client and server, protecting sensitive information.
- User Authentication: Using robust authentication mechanisms like OAuth, JWT, and multifactor authentication (MFA) to verify user identities and prevent unauthorized access.

D. Database Management:

- Relational Databases: Using databases like MySQL, PostgreSQL, or SQL Server for structured data storage, ensuring data integrity and efficient querying.
- NoSQL Databases: Utilizing NoSQL databases like MongoDB for flexible and scalable data storage, particularly for unstructured or semi-structured data.

E. Network Infrastructure:

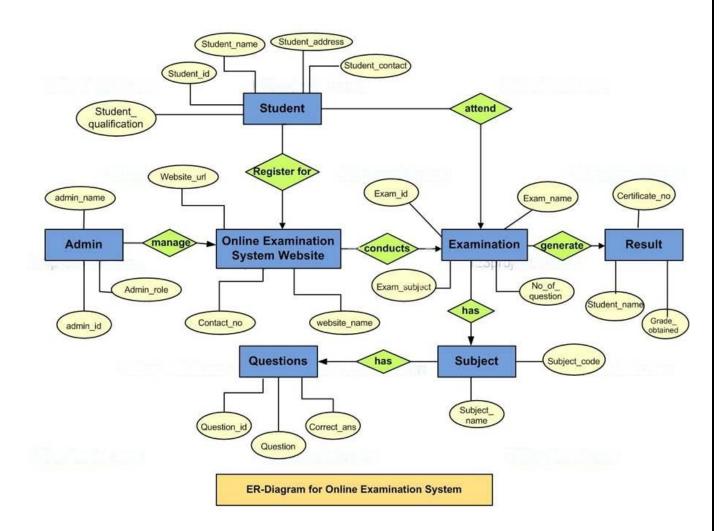
- High-Speed Internet: Ensuring that candidates and administrators have access to high-speed internet connections to support seamless interaction with the online exam system.
- Content Delivery Networks (CDN): Using CDNs to distribute content globally, reducing latency and improving access speed for users in different locations.

4) User-Friendly Interface:

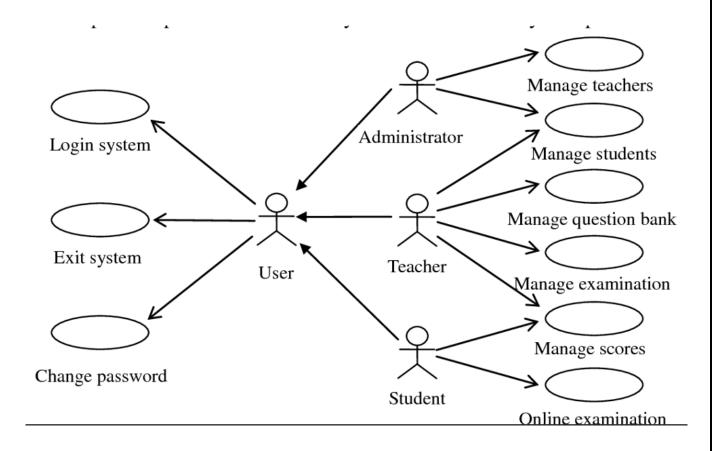
- Intuitive Design: Designing a user-friendly interface that is easy to navigate, reducing the learning curve for candidates and administrators.
- Accessibility: Incorporating accessibility features (e.g., screen readers, keyboard navigation) to ensure that the system is usable by individuals with disabilities.

CHAPTER 3: ANALYSIS & DESIGN

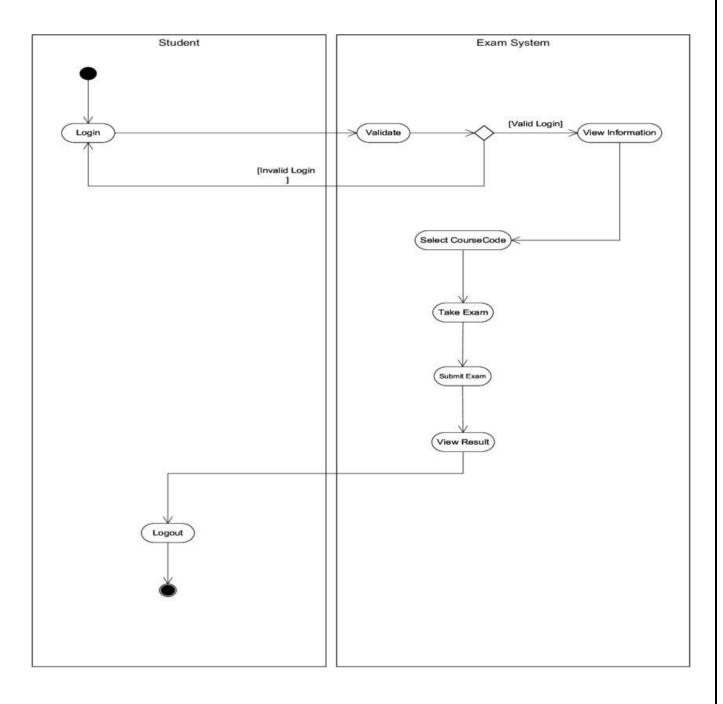
3.1 Entity Relationship Diagram



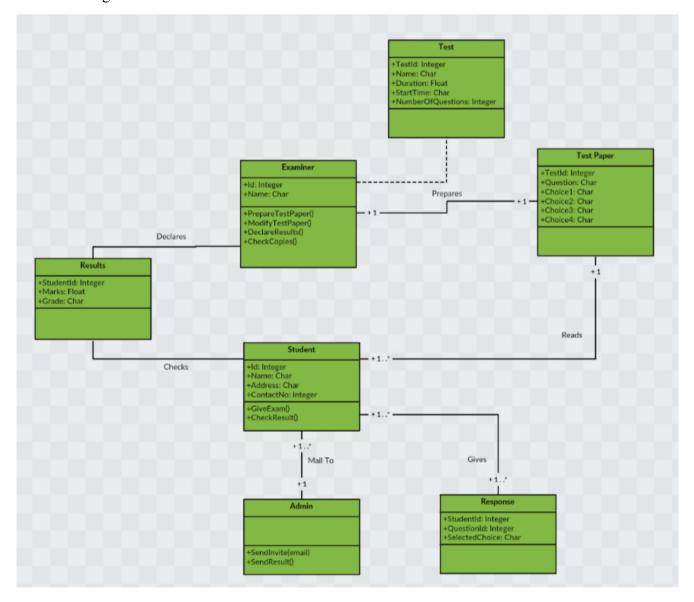
3.2 Use Case Diagrams



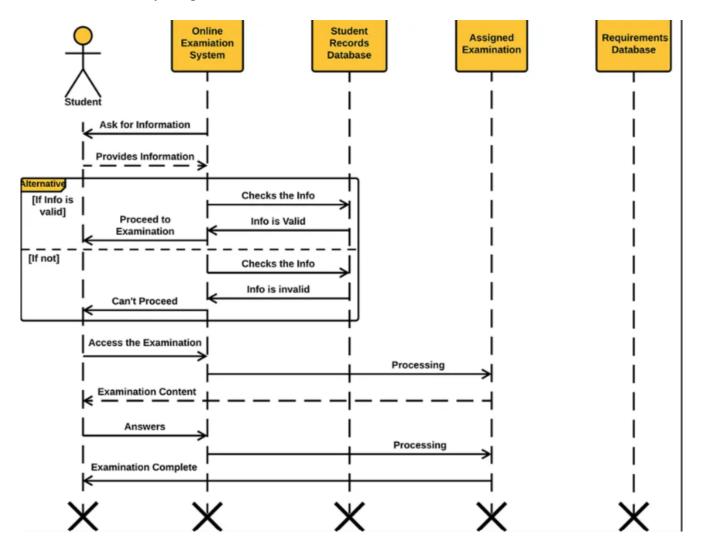
3.3Activity Diagram



3.4 Class Diagram



3.5 Module Hierarchy Diagram



3.6 Test Cases

1. User Registration and Login

- Test Case 1: Verify that a new user can register with valid details (username, email, password).
- Test Case 2: Verify that the system sends a confirmation email upon successful registration.
- Test Case 3: Verify that a registered user can log in with valid credentials.
- Test Case 4: Verify that login fails with incorrect credentials.
- Test Case 5: Verify that the "Forgot Password" functionality works correctly.

2. Exam Creation

- Test Case 1: Verify that an admin can create a new exam with details like exam name, subject, and duration.
- Test Case 2: Verify that the system allows setting the total number of questions.
- Test Case 3: Verify that the system allows adding questions with options and marks.
- Test Case 4: Verify that the system supports negative marking if enabled.
- Test Case 5: Verify that the system sets passing marks and exam duration correctly.

3. Exam Taking

- Test Case 1: Verify that a student can select an exam based on exam name or code.
- Test Case 2: Verify that the student can fill in required details before starting the exam.
- Test Case 3: Verify that the exam timer starts correctly upon beginning the exam.
- Test Case 4: Verify that the student can answer multiple-choice questions (MCQs) correctly.
- Test Case 5: Verify that the student can navigate between questions using "Previous" and "Next" buttons.

4. Exam Submission and Evaluation

- Test Case 1: Verify that the student can submit the exam once completed.
- Test Case 2: Verify that the system evaluates the exam considering positive and negative marks.
- Test Case 3: Verify that the system displays the result (Pass/Fail) along with marks secured.
- Test Case 4: Verify that the system shows questions attempted and other relevant details.

5. Result Viewing

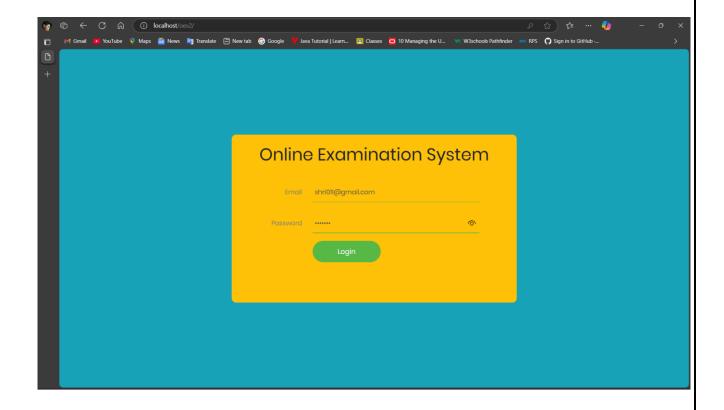
- Test Case 1: Verify that a student can view their exam results.
- Test Case 2: Verify that the system displays detailed results, including individual question scores.
- Test Case 3: Verify that the system allows students to review their answers if permitted.

6. Security and Access Control

- Test Case 1: Verify that only registered users can access the exam system.
- Test Case 2: Verify that the system handles internet disconnections or power outages gracefully.
- Test Case 3: Verify that the system prevents unauthorized access to exam materials.

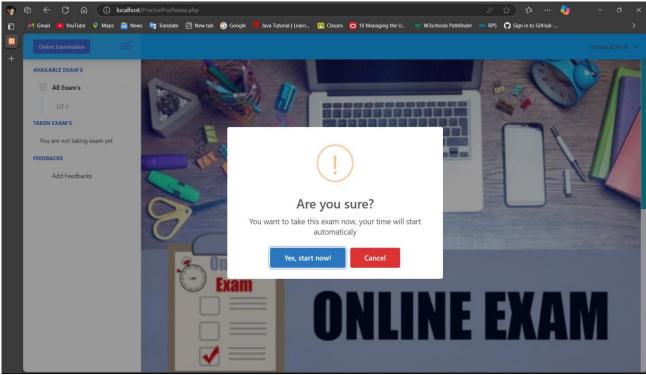
CHAPTER 4: USER MANUAL

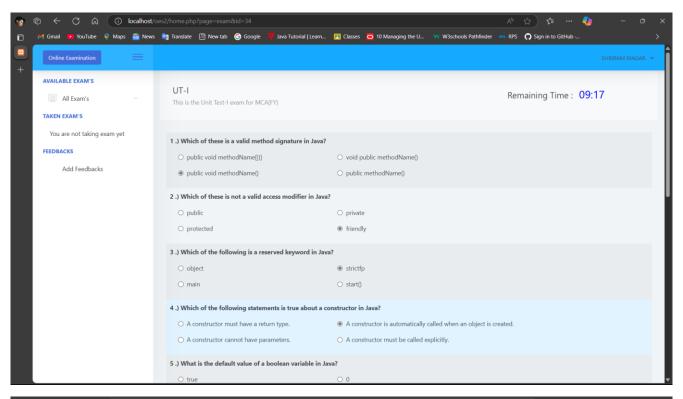
4.1 User Interface Screens (Input)

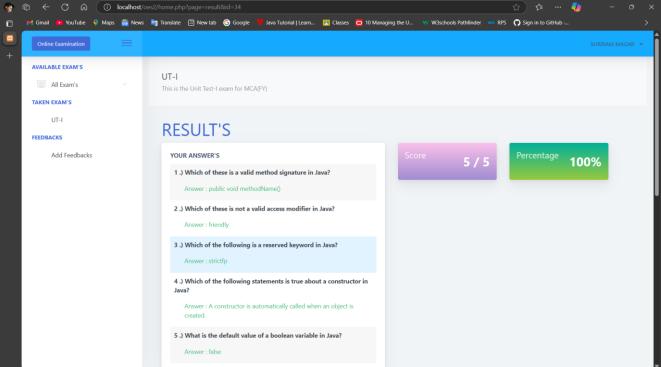


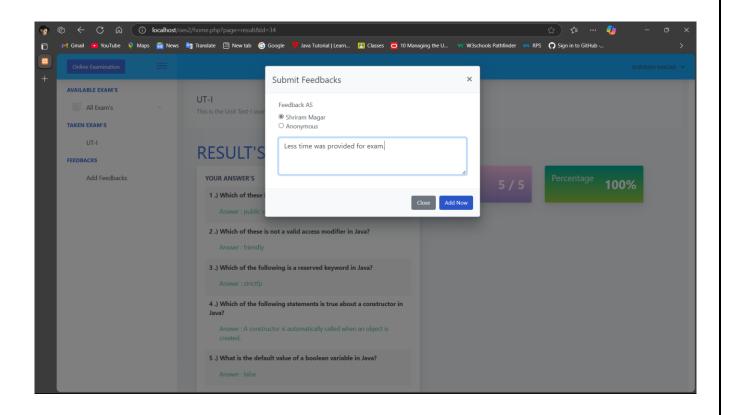
Home page



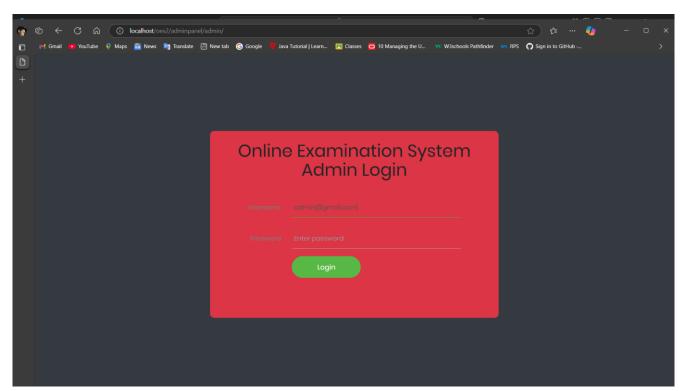


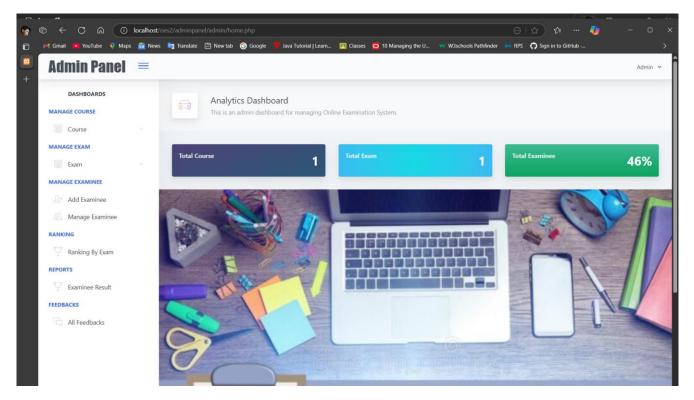




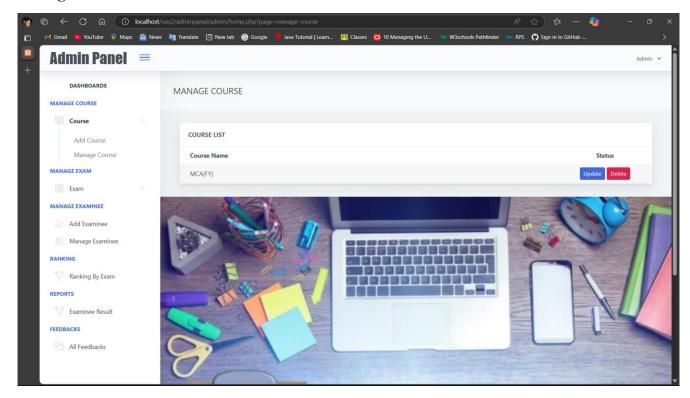


Admin Dashboard:

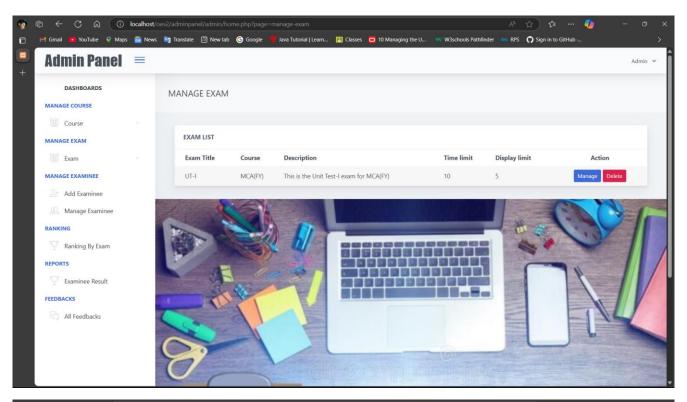


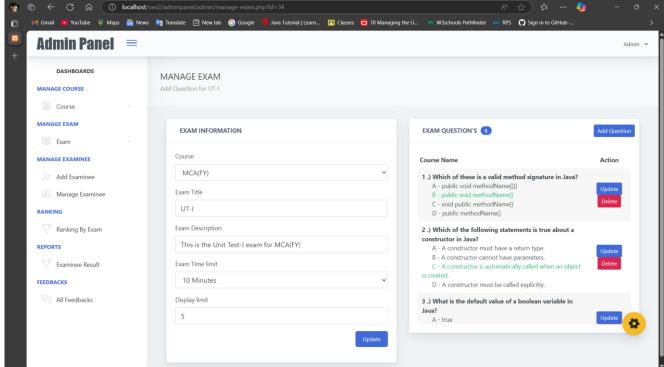


Manage Courses:

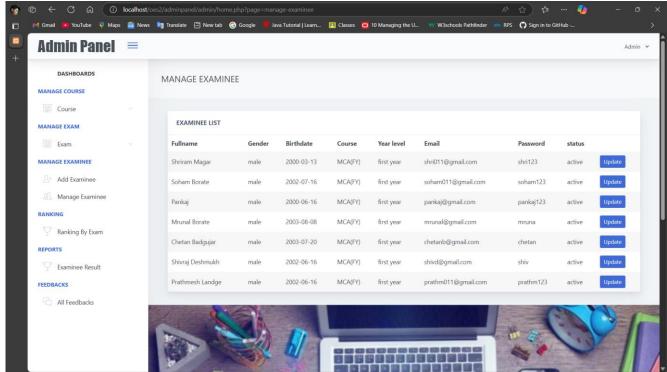


Manage Exam:

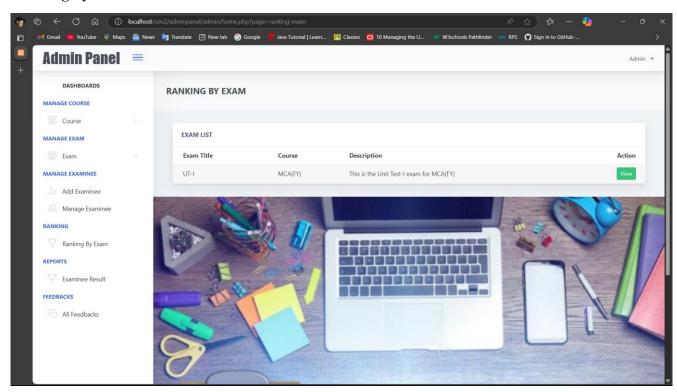




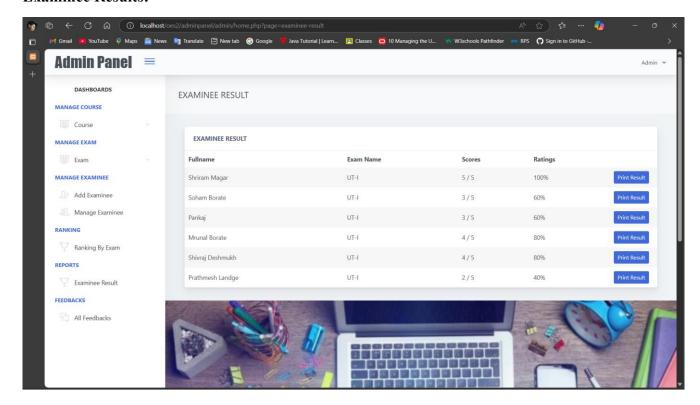
Manage Examinees:



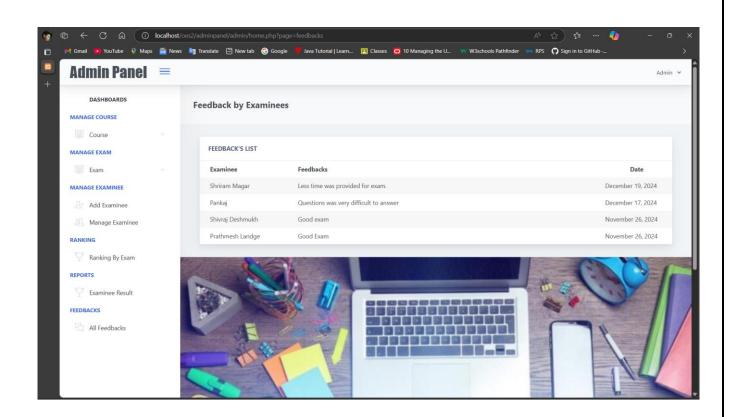
Ranking by Exam:



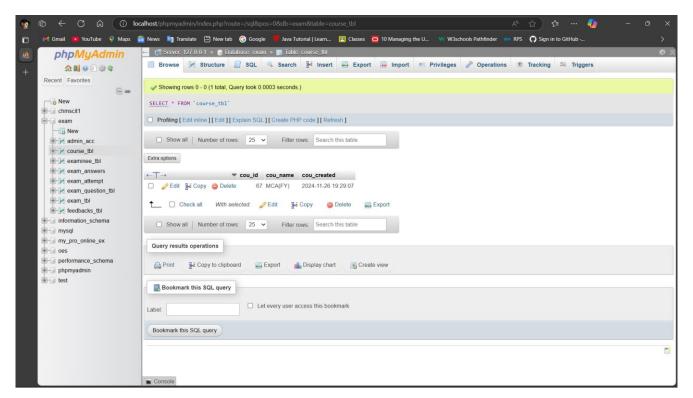
Examinee Results:

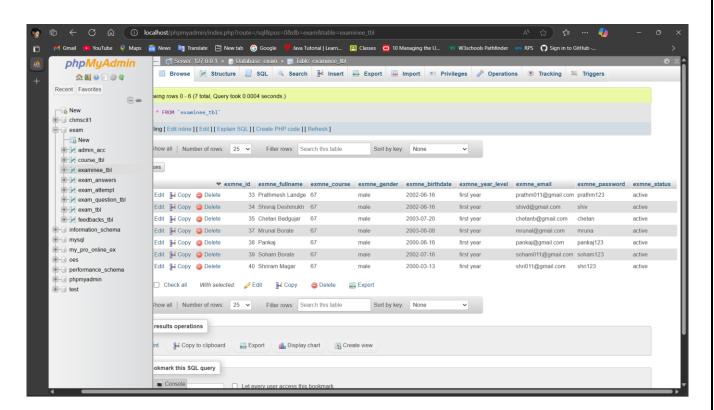


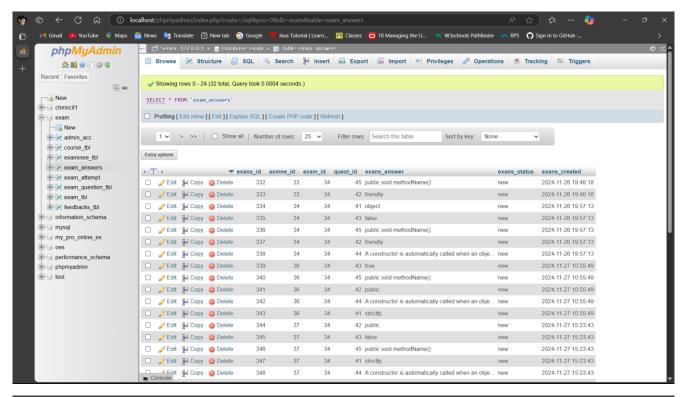
Feedback by Examinees:

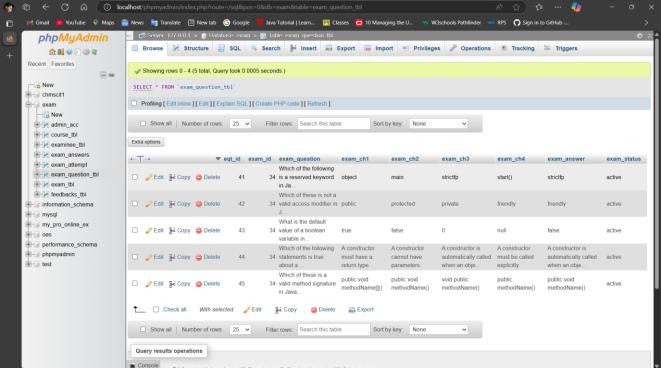


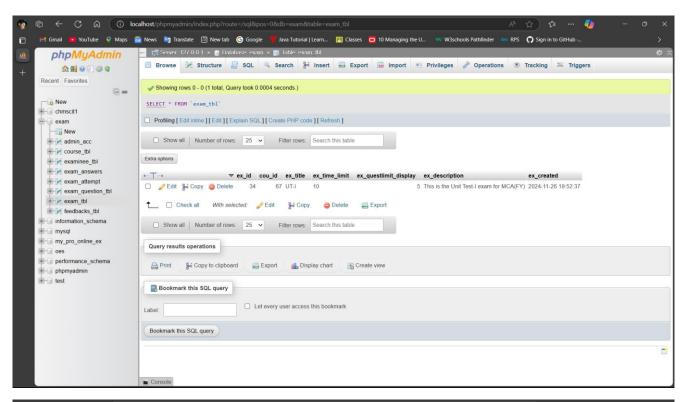
Database:

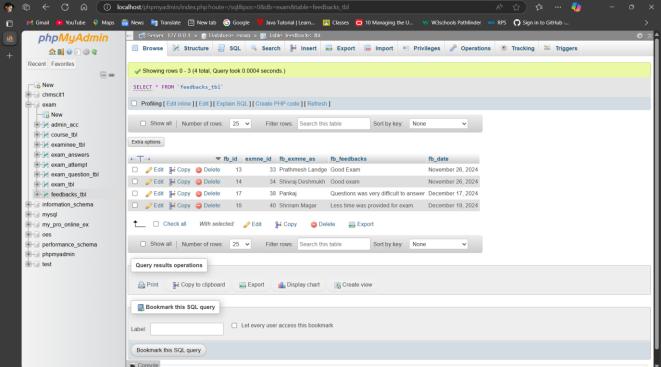




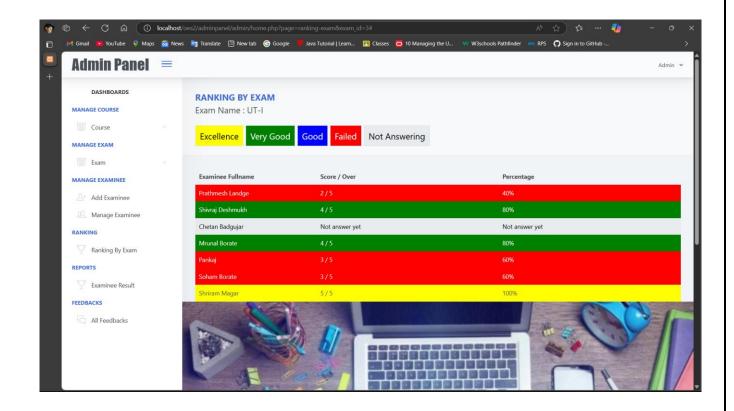








4.2 Output Screens with data



4.3 Sample Project Code

```
Index.php
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Examinee LOGIN</title>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  link rel="icon" type="login-ui/image/png" href="images/icons/favicon.ico"/>
  link rel="stylesheet" type="text/css" href="login-ui/vendor/bootstrap/css/bootstrap.min.css">
  link rel="stylesheet" type="text/css" href="login-ui/fonts/font-awesome-4.7.0/css/font-
awesome.min.css">
  link rel="stylesheet" type="text/css" href="login-ui/fonts/Linearicons-Free-v1.0.0/icon-
font.min.css">
  link rel="stylesheet" type="text/css" href="login-ui/vendor/animate/animate.css">
  link rel="stylesheet" type="text/css" href="login-ui/vendor/css-hamburgers/hamburgers.min.css">
  link rel="stylesheet" type="text/css" href="login-ui/vendor/select2/select2.min.css">
  link rel="stylesheet" type="text/css" href="login-ui/vendor/daterangepicker/daterangepicker.css">
  link rel="stylesheet" type="text/css" href="login-ui/css/util.css">
  link rel="stylesheet" type="text/css" href="login-ui/css/main.css">
</head>
<body>
  <div class="limiter">
    <div class="container-login100 bg-info">
       <div class="wrap-login100 bg-warning"><br>
         <div>
           <center><h1>Online Examination System</h1></center>
```

</div>

```
<form method="post" id="examineeLoginFrm" class="login100-form validate-form">
            <div class="wrap-input100 validate-input m-b-26" data-validate="Username is required">
              <span class="label-input100">Email</span>
              <input class="input100" type="text" name="username" placeholder="Enter email">
              <span class="focus-input100"></span>
            </div>
            <div class="wrap-input100 validate-input m-b-18" data-validate = "Password is</pre>
required">
              <span class="label-input100">Password</span>
              <input class="input100" type="password" name="pass" placeholder="Enter</pre>
password">
              <span class="focus-input100"></span>
            </div>
            <div class="container-login100-form-btn" align="right">
              <button type="submit" class="login100-form-btn">
                Login
              </button>
            </div>
         </form>
       </div>
    </div>
  </div>
  <script src="login-ui/vendor/jquery/jquery-3.2.1.min.js"></script>
  <script src="login-ui/vendor/animsition/js/animsition.min.js"></script>
  <script src="login-ui/vendor/bootstrap/js/popper.js"></script>
  <script src="login-ui/vendor/bootstrap/js/bootstrap.min.js"></script>
  <script src="login-ui/vendor/select2/select2.min.js"></script>
  <script src="login-ui/vendor/daterangepicker/moment.min.js"></script>
```

```
<script src="login-ui/vendor/daterangepicker.js"></script>
 <script src="login-ui/vendor/countdowntime/countdowntime.js"></script>
 <script src="login-ui/js/main.js"></script>
</body>
</html>
Manange-exam.php
<div class="app-main outer">
    <div class="app-main inner">
     <div class="app-page-title">
       <div class="page-title-wrapper">
         <div class="page-title-heading">
           <div>MANAGE EXAM</div>
         </div>
       </div>
     </div>
     <div class="col-md-12">
       <div class="main-card mb-3 card">
         <div class="card-header">ExAM List
         </div>
         <div class="table-responsive">
           <table class="align-middle mb-0 table table-borderless table-striped table-hover"
id="tableList">
             <thead>
             Exam Title
               Course
               Description
```

```
Time limit
              Display limit
              Action
            </thead>
            <?php
              $selExam = $conn->query("SELECT * FROM exam tbl ORDER BY ex id
DESC ");
              if($selExam->rowCount() > 0)
               while ($selExamRow = $selExam->fetch(PDO::FETCH ASSOC)) { ?>
                 <?php echo $selExamRow['ex title']; ?>
                   >
                     <?php
                      $courseId = $selExamRow['cou id'];
                      $selCourse = $conn->query("SELECT * FROM course_tbl
WHERE cou id='$courseId' ");
                      while ($selCourseRow = $selCourse-
>fetch(PDO::FETCH ASSOC)) {
                        echo $selCourseRow['cou name'];
                      }
                     ?>
                   <?php echo $selExamRow['ex description']; ?>
                   <?php echo $selExamRow['ex time limit']; ?>
                   <?php echo $selExamRow['ex_questlimit display']; ?>
                   <a href="manage-exam.php?id=<?php echo $selExamRow['ex id'];
?>" type="button" class="btn btn-primary btn-sm">Manage</a>
                   <button type="button" id="deleteExam" data-id='<?php echo</pre>
$selExamRow['ex_id']; ?>' class="btn btn-danger btn-sm">Delete</button>
```

```
<?php }
          }
          else
          { ?>
           <h3 class="p-3">No Exam Found</h3>
            <?php }
          ?>
         </div>
     </div>
   </div>
</div>
```

Examineeresult.php

```
rel="stylesheet" type="text/css" href="css/mycss.css">
<div class="app-main_outer">
<div class="app-main_inner">
<div class="app-page-title">
<div class="page-title"></div class="page-title-wrapper"></div</tr>
```

```
<div class="page-title-heading">
           <div>EXAMINEE RESULT</div>
         </div>
       </div>
     </div>
      <div class="col-md-12">
       <div class="main-card mb-3 card">
          <div class="card-header">Examinee Result
          </div>
         <div class="table-responsive">
           <table class="align-middle mb-0 table table-borderless table-striped table-hover"
id="tableList">
             <thead>
             Fullname
               Exam Name
               Scores
               Ratings
               </thead>
             <?php
               $selExmne = $conn->query("SELECT * FROM examinee_tbl et INNER JOIN
exam attempt ea ON et.exmne id = ea.exmne id ORDER BY ea.examat id DESC ");
               if(selExmne->rowCount() > 0)
                 while ($selExmneRow = $selExmne->fetch(PDO::FETCH_ASSOC)) { ?>
                   >
                     <?php echo $selExmneRow['exmne fullname']; ?>
```

```
<?php
                          $eid = $selExmneRow['exmne id'];
                          $selExName = $conn->query("SELECT * FROM exam tbl et INNER
JOIN exam attempt ea ON et.ex id=ea.exam id WHERE ea.exmne id='$eid' ")-
>fetch(PDO::FETCH ASSOC);
                          $exam id = $selExName['ex id'];
                          echo $selExName['ex title'];
                         ?>
                       <?php
                            $selScore = $conn->query("SELECT * FROM exam_question_tbl eqt
INNER JOIN exam answers ea ON eqt.eqt id = ea.quest id AND eqt.exam answer =
ea.exans answer WHERE ea.axmne id='$eid' AND ea.exam id='$exam id' AND
ea.exans status='new' ");
                             ?>
                          <span>
                            <?php echo $selScore->rowCount(); ?>
                            <?php
                              $over = $selExName['ex questlimit display'];
                             ?>
                          </span>/<?php echo $over; ?>
                       <?php
                            $selScore = $conn->query("SELECT * FROM exam question tbl eqt
INNER JOIN exam answers ea ON eqt.eqt id = ea.quest id AND eqt.exam answer =
ea.exans answer WHERE ea.axmne id='$eid' AND ea.exam id='$exam id' AND
ea.exans status='new' ");
                          ?>
                          <span>
                            <?php
                              $score = $selScore->rowCount();
                              sans = score / sover * 100;
```

```
echo "$ans";
                          echo "%";
                        ?>
                      </span>
                    >
                     <a rel="facebox" href="facebox_modal/updateExaminee.php?id=<?php
echo $selExmneRow['exmne_id']; ?>" class="btn btn-sm btn-primary">Print Result</a>
                    <?php }
               }
              else
               { ?>
                >
                 <h3 class="p-3">No Course Found</h3>
                 <?php }
              ?>
             </div>
       </div>
     </div>
</div>
```

4.4 Bibliography

BIBLIOGRAPHY

A bibliography provides a list of the sources consulted during the development of ProcotrPro project. Below are key references that were instrumental in guiding the project:

1. Books

- 1)Lynn Beighley," Head First PHP & MySQL: A Brain-friendly Guide", O'Reilly Media, Inc, 2009
- 2) Ash Allen," Battle Ready Laravel by Ash Allen," Ash Allen, 2022

2. Online Resources

- MySQL Documentation. (n.d.). MySQL 8.0 Reference Manual. Retrieved from [MySQL Documentation](https://dev.mysql.com/doc/refman/8.0/en/)
- Bootstrap Documentation. (n.d.). Bootstrap 5 Documentation. Retrieved from [Bootstrap](https://getbootstrap.com/docs/5.0/getting-started/introduction/)
- W3Schools. (n.d.). Learn HTML, CSS, JavaScript, and SQL. Retrieved from [W3Schools](https://www.w3schools.com/)

3. Websites Visited

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https://laravel.com/docs/11.x

- Composer Documentation (for managing PHP dependencies): https://getcomposer.org/doc
- Apache Server Documentation: https://httpd.apache.org/docs
- XAMPP Documentation: https://www.apachefriends.org/docs

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. Do	ocumentations	ı.					
		ctor for Python				per Guide. Ro	etrieved fro
[1	MySQL](<u>https</u>	://dev.mysql.co	m/doc/connec	tor-python/en/	(.)		