

# **EXAMINATION PORTAL**

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## **PROBLEM DESCRIPTION**

Today online examination portals have become a fast-growing examination method because of its speed and accuracy. It is also needed less manpower to execute the examination. Almost all organizations now-a-days, are conducting their objective exams by online examination system, it saves students time in examinations.

Organizations can also easily check the performance of the student that they give in an examination. As a result of this, organizations are releasing results in less time. It also helps the environment by saving paper. Examination portal has been designed according to today's requirements.

The purpose of this document is to present a detailed description of the Examination Portal. It will explain the purpose and features of the system, the interfaces of the system, what the system does, the constraints under which it must operate and how the system will react to external stimuli.

## **Functional Requirements**

Following are the services which this system will provide. These are the facilities and functions required by the customer.

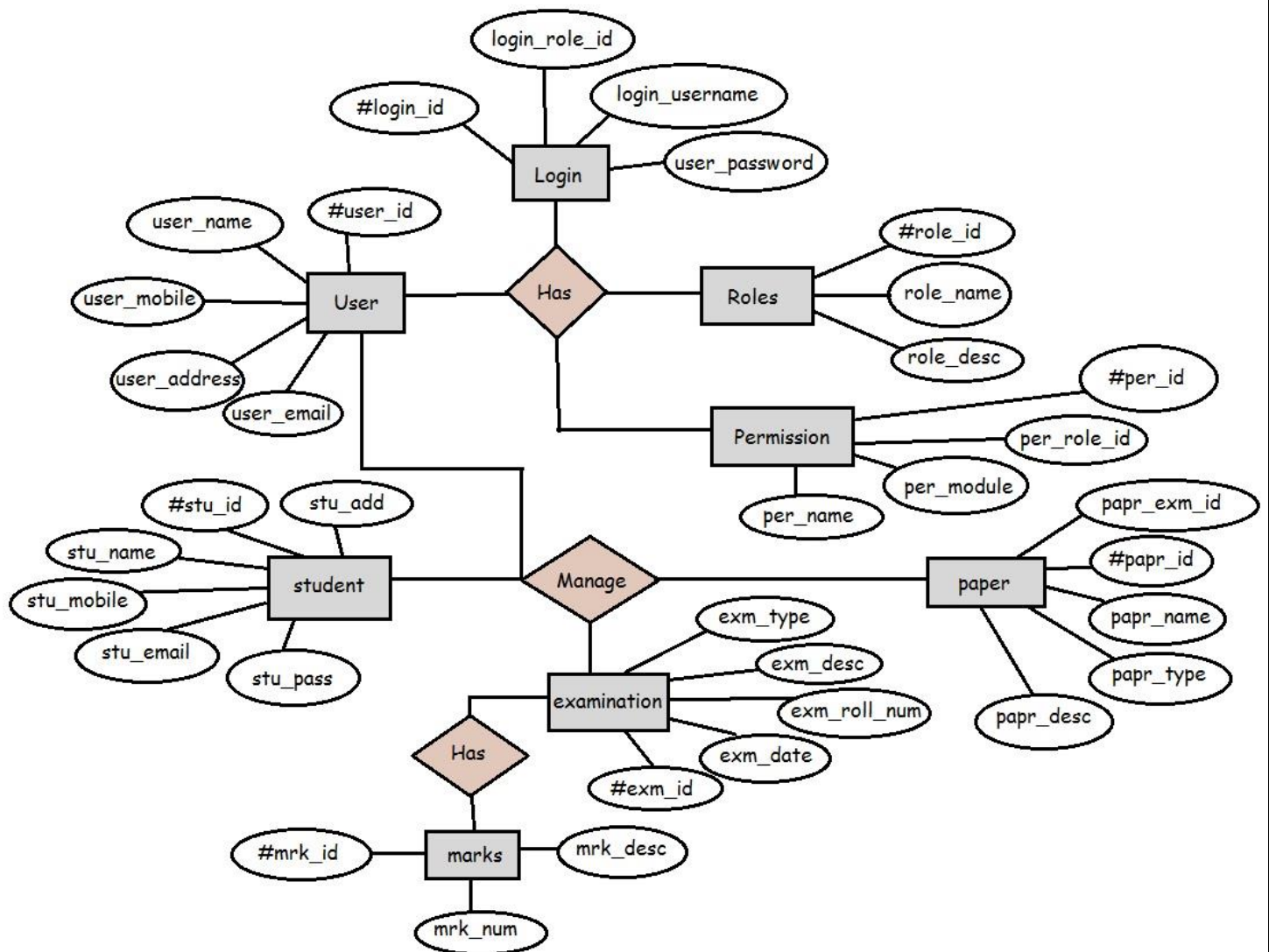
- **Login system**: A user or an admin can login with their credentials to access different components of the application.
- **Online data entry by the Admin**: To keep updating the questions of any test topic, the admin can manually access the test editing page and add or remove questions with answer keys.
- **Online automated result generation**: The results are generated instantaneously as the stored answer key is matched with the user answer key in real time.
- **User History Checking**: If the user wishes to check or analyze previous test performances, they can do so using the history checking feature. It allows the user to save every test result and also notifies the user if he/she tries to retake a test, thus saving time.
- **Log Out**: User can end his/her session to save their secure information and personal details. On future logins the data is saved and the user gets to resume from where he/she has last made progress.

## **Non-Functional Requirements**

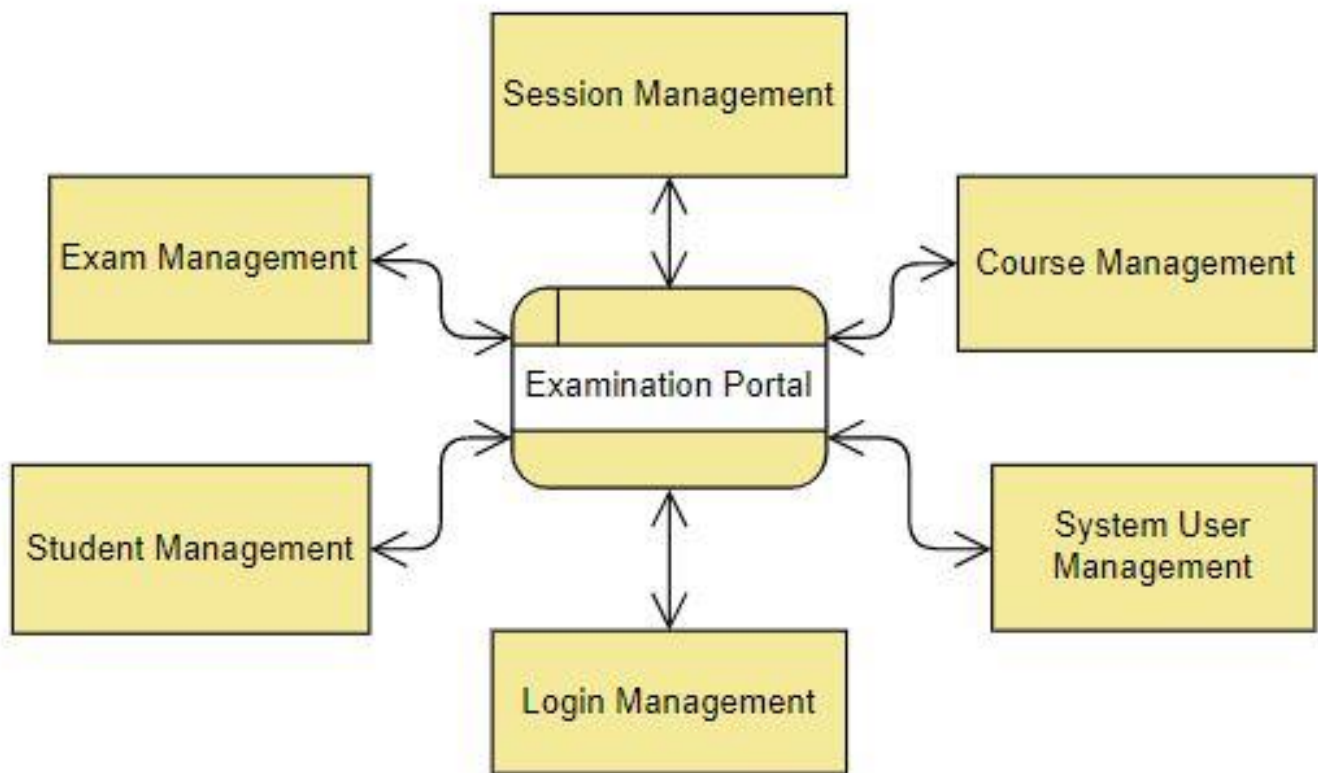
Those requirements which are not the functionalities of a system but are the characteristics of a system are called the non-functionalities. Every software system has some non-functionalities. Just fulfilling the requirements of the user is not a good task, keeping the system accurate, easy to maintain, reliable and secure is also a basic part of software engineering. Examination Portal must have the following non-functional requirements so that it could be said as a complete system.

- **Performance constraints**: This system must be fit according to the performance wise. It should use less memory and will be easily accessible by the user. Memory management should be done wisely so that none of the memory part goes wasted.
- **Hardware limitations**: It should be designed in such a way that cheap hardware must be installed to access and use it effectively. It should be platform independent. There should be no hardware limitations. It should be designed to work with the low specification hardware so that it could easily work with the high specification hardware.
- **Maintainable**: Each of the modules should be designed in such a way that a new module can easily be integrated with it.
- **Reliable and Testable**: This software is reliable and can be tested easily for quality purpose of the software.

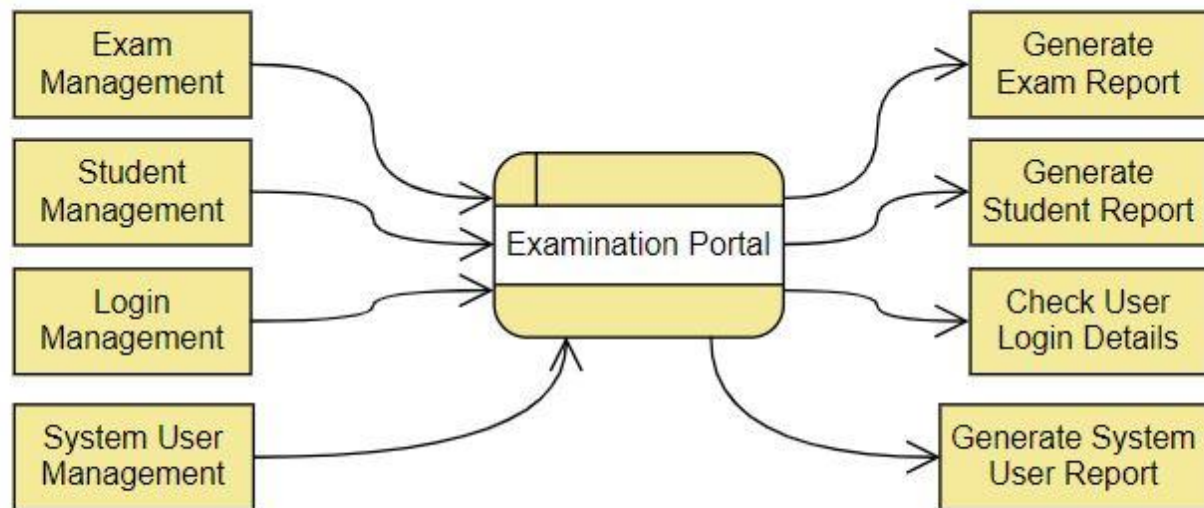
## Entity Relationship Diagram:



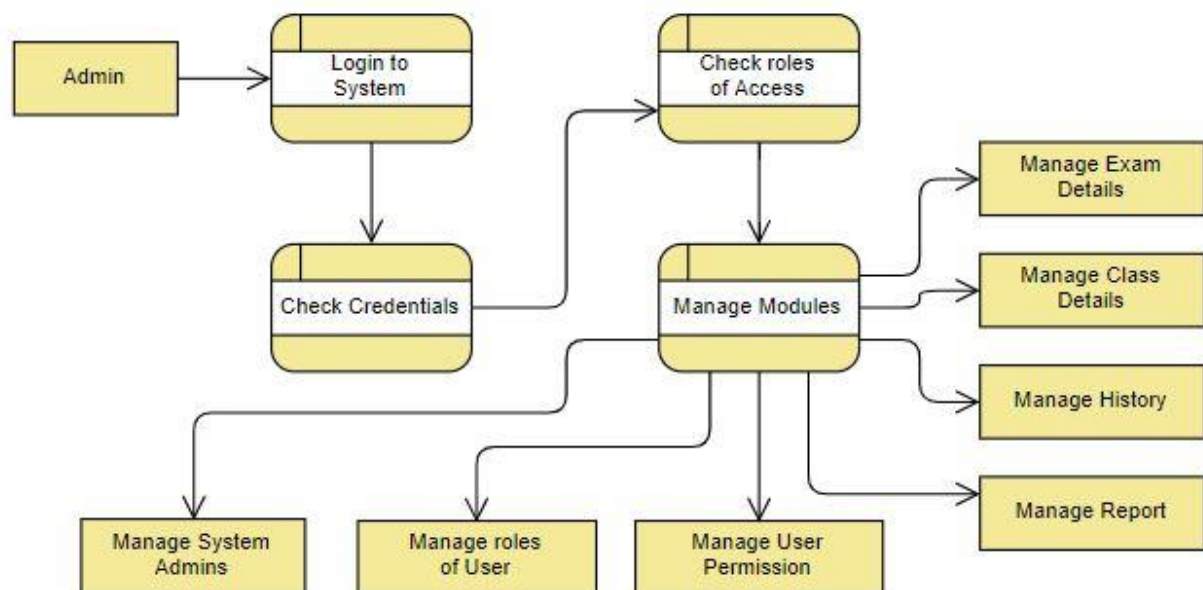
## Data Flow Diagrams:



0 LEVEL DFD - EXAMINATION PORTAL



1 LEVEL DFD - EXAMINATION PORTAL



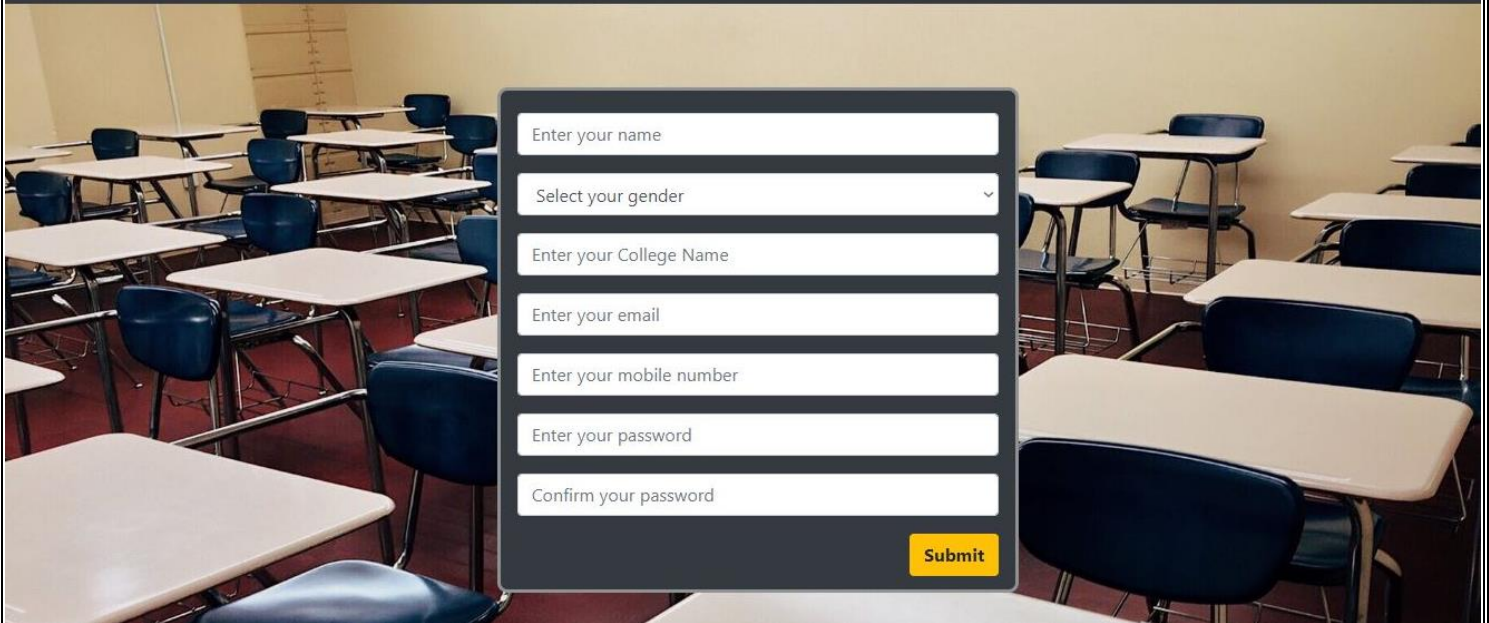
2 LEVEL DFD - EXAMINATION PORTAL



# SCREENSHOTS

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Log In



A registration form overlay is centered on a background image of a classroom with rows of desks and chairs. The form is a dark grey rectangle with white input fields and a yellow 'Submit' button. The fields are labeled: 'Enter your name', 'Select your gender' (with a dropdown arrow), 'Enter your College Name', 'Enter your email', 'Enter your mobile number', 'Enter your password', and 'Confirm your password'.

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Antik Chowdhury

Sign Out

[Home](#) [History](#) [Ranking](#) [Sign out](#)

Search

Search

SN	Topic	Total Questions	Marks	Time Limit	Action
1	Linux editor	20	10	10 min	<a href="#">Start</a>
2	Java	30	30	20 min	<a href="#">Start</a>
3	Linux Startup	5	10	10 min	<a href="#">Start</a>
4	C ++	10	10	10 min	<a href="#">Start</a>
5	PHP coding	20	20	30 min	<a href="#">Start</a>
6	DataBase Management System	15	15	10 min	<a href="#">Start</a>
1	Python	5	10	10 min	<a href="#">Start</a>

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[Admin](#)

[Developer](#)

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## CODE SNIPPETS:

```
File Edit Selection View Go Run Terminal Help registration.html - Visual Studio Code
home.html questionpaper.html ranking.html # examination.css registration.html X # style.css (deleted) X
body > div.main-container.container-fluid > div.main-form > div.col-6 > form > div.form-group > select.form-control
41
42 <div class="form-group">
43   <select class="form-control">
44     <option>Select your gender</option>
45     <option>Male</option>
46     <option>Female</option>
47     <option>Other</option>
48   </select>
49 </div>
50
51 <div class="form-group">
52   <input type="text" name="college" id="college" class="form-control" placeholder="College Name" />
53 </div>
54
55 <div class="form-group">
56   <input type="email" name="email" id="email" class="form-control" placeholder="Email" />
57 </div>
58
59 <div class="form-group">
60   <input type="number" name="mobile" id="mobile" class="form-control" placeholder="Mobile Number" />
61 </div>
62
63 <div class="form-group">
64   <input type="password" name="password" id="password" class="form-control" placeholder="Password" />
65 </div>
66
67 <div class="form-group">
68   <input type="password" name="passwordMatch" id="passwordMatch" class="form-control" placeholder="Confirm Password" />
69 </div>
70
71 <div class="bg-white">
72   <button type="button" class="btn btn-warning float-right"><strong>Submit</strong>
73 </div>

1 body{
2   background-image: url("../images/bg1.jpeg");
3   background-size: 100%;
4 }
5 h1{
6   color: #ffcc107;
7   margin-top: 5px;
8 }
9
10 #search-btn{
11   margin-top: 15px;
12   margin-left: 100px;
13   text-emphasis: 2ex;
14   font-weight: bold;
15 }
16 .main-form{
17   background-color: #525864;
18   padding-top: 20px;
19   margin-right: 400px;
20   border-style: solid;
21   border-color: #144148;
22   margin-left: 33%;
23   margin-top: 75px;
24   padding-bottom: 50px;
25   border-radius: 2%;
26 }
27 .col-6{
28   max-width: 100%;
29 }
30
```

```
Users > antik > Desktop > Web Dev > Design Lab Proj > home.html > html > head > link
<a href="#" style="color: beige;">Sign Out</a>
</div>
/>

<nav class="navbar navbar-expand-lg navbar-light bg-light bg_nav_bar" style="background-color: #525864; color: beige; padding: 5px 0;">
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav">
      <li class="nav-item active" style="word-spacing: 12px;">
        <a class="nav-link" href="#">Home <span class="sr-only">(current)</span>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">History</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Ranking</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Sign out</a>
      </li>
    </ul>
  </div>
  <form class="form-inline my-2 my-lg-0">
    <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-label="Search" />
    <button class="btn btn-info my-2 my-sm-0" type="submit">Search</button>
  </form>
</nav>

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30
```

## **TECHNOLOGY STACK:**

Front end: HTML, CSS, JavaScript

1. HTML: HTML is used to create and save web document. E.g. Notepad/Notepad++
2. CSS: (Cascading Style Sheets) Create attractive Layout
3. Bootstrap: responsive design mobile friendly site
4. JavaScript: it is a programming language, commonly use with web browsers.

Back end: PHP, MySQL

1. PHP: Hypertext Preprocessor (PHP) is a technology that allows software developers to create dynamically generated web pages, in HTML, XML, or other document types, as per client request. PHP is open source software.
2. MySQL: MySql is a database, widely used for accessing querying, updating, and managing data in databases

XAMPP Server

## **REFERENCES:**

- Github
- W3schools
- Udemy