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Common Portal for Competitive Examinations

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Abstract

Background: The project work entitled as Common Portal for Competitive Examination, basically, the main objective of this project is to create a common portal for the competitive exams with complete process starting from registration process till hall ticket downloading. Since, people search in various sites to know the requirements, application process, and details of the exam. In order to save the time of the candidates this site is to be created. Also, it helps the candidate with materials to make the exams easier with some practices. This study covers the vast idea of how the candidate can register and know the details of the exams with the help of common portal for competitive exams, which can be done through the concept web development. This will help the user not to depend upon multiple portals for multiple type of examination. This System provides an online interface to the user where they can fill in their personal details and do register for the exams.

Objectives: In this common portal for competitive examination project, we are going to create single portal for all the examinations where user can register for any number of exams based on his/her interest. It also provides materials for registered candidates.

Conclusions: Thus, the study on Web Development helped to gain knowledge on both the theory and practical part. Each and every concept were clear and it has brought some interest for further learning. As stated earlier, the actual process for the competitive exam takes a lot of time and lack of information, which makes people exhausted. In order to avoid facing those circumstances, the Common Portal for Competitive Examinations concept is brought here which is a great advantage.

Keywords: Admin, User, Head, Web portal.

1. Introduction

The Common Portal for Competitive Examination makes the work of candidates easier and also for each department heads. This common portal has facilities where prospective candidates can upload their details and apply for the respective exams according to the eligibility criteria given there. This common portal application is designed to do a whole work in a single website and also save the time of the candidates. There are three modules and sub modules namely Admin, Head and User. Admin can login his/her personal account using id and password, Admin can add the department heads and view the heads as well as update/delete their data. Individual department heads can login their account and add the details of upcoming exams and view exams. User can register and login to their account using id and password.

The main aim of Common Portal for Competitive Examination is to provide facility to conduct online examination worldwide, its saves time user can register, login and give the test with his specific id, and can see the results as well. The scope of this project is,

□ The System provides an online interface to the user where they can fill in their personal details and register for the exam.

Volume 13, No. 3, 2022, p. 3003-3007 https://publishoa.com ISSN: 1309-3452

- □ The head concerned with the issue of hall ticket can use this system to reduce his workload and process the application in a speedy manner.
- Derivide a communication platform between the student and the head.

2. Objectives

Usually, to know the details of exam, we surf lots and lots of site and end up exhausted. And also, there won't be correct information. It is completely waste of time and lack of proper information. To avoid such conflicts, a proper site is being created from knowing the details and applying for the exam and till hall ticket download process. The main disadvantages of existing systems are, \Box Lack of information.

- It takes huge time.
- Less accurate.

The common portal is being created to overcome the disadvantages of existing system like less accuracy, lack of information, etc. Moreover, it helps the candidates to complete whole process starting from exam registration till hall ticket generation in a single site. The advantages of proposed system are,

- Complete set of information.
- Time saving.
- Whole process in a single site.
- Accurate information.

3. System Components

There are three system components or modules in this project. The three system modules are,

- 1. Admin
- 2. Head
- 3. User

1. ADMIN

Firstly, the admin has to login with his/her credentials. After login, the admin can view the details of the heads and can also view the details of examinations added by the heads. The admin can add the heads and can also delete the heads. Admin can view the details of the candidates who registered for the examinations through this website. The admin can also delete the anonymous users in the website.

2. HEAD

Firstly, the head has login to his/her credentials. After login, the head can post the latest updates regarding the examinations. The head can post the required materials and videos for the exams. The head can also verify the payment details of the candidates. After verifying the payment details the head will post the hall tickets for the examinations to the respective candidates.

3. USER

Firstly, when the user is using this website for the first time he/she need to register in to the website. After that user has to login with his/her own credentials. After login, the user can view all the examination alerts. Next the user can register for the exams in which he/she is interested. After registration, the user has to complete his/her payment and upload the

Volume 13, No. 3, 2022, p. 3003-3007 https://publishoa.com ISSN: 1309-3452

screenshot of the payment as a proof. After the payment is verified by the head, the user will receive the hall ticket. The user can download the hall ticket through this website. The users can also refer the materials before appearing their original exams.



4. System Design

Fig 1. System design for Common Portal for Competitive Examinations.

In this project, we have mainly three persons- admin, head and the user. Admin is the one who manages and maintains all the data in the website. Admin is the person who validates whether the users or heads are valid users or not. Generally, we have different streams in examinations, each stream have their own respective head. Users are the candidates who will register for the examinations of his/her interest in this portal.

5. System Requirements

The functional requirements are,

- Add Material: Head will upload all the required materials for particular exam where the user can refer these materials for preparation.
- Add Exam Notifications: Head will add all the latest updates about the examinations. All these notifications are updated to the user for registration.
- Verify Payment: Head will verify the payment of the users and update their status.
- Upload & Download Hall Tickets: Head will upload hall tickets of users and the users can download the hall tickets.
- Registration: The user will register for the particular exam in which he/she is interested.

Volume 13, No. 3, 2022, p. 3003-3007 https://publishoa.com ISSN: 1309-3452

The non-functional requirements are,

- Reliability: The application should be highly reliable and it should generate all the updated information in correct order.
- **Maintainability:** Maintainability involves a system of continuous improvement learning from the past in order to improve the ability to maintain systems, or improve reliability of systems based on maintenance experience.
- Portability: The application should be portable on any system.
- Security: Application will allow only valid users to access the system.



6. Results and Discussions

Fig 2. Candidates Registration.

The x-axis of the graph contains the domains in which users can register for their exams and the y-axis of the graph contains the number of candidates registered in each domain. In medical domain 79 candidates got registered, in engineering domain 98 candidates got registered, in civil domain 55 candidates got registered and in teaching domain 39 candidates got registered. When we compare all the domains engineering domain have more registrations and teaching domain have less registrations.



Fig 2. Candidates registered in Engineering domain.

Volume 13, No. 3, 2022, p. 3003-3007 https://publishoa.com ISSN: 1309-3452

The x-axis contains the exams present in the Engineering domain and the y-axis contains the number of candidates registered in each exam present in engineering domain. There are two exams in engineering domain JEE and VITEE. In JEE 60 candidates got registered and in VITEE 38 candidates got registered. When we compare, JEE has more registrations.

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