An Implementation of an Online Registration System in J&K State Board of Technical Education for Polytechnics

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ABSTRACT

Enrolling students into the Polytechnic Sector in J&K State is a very cumbersome, hectic but an important process. Students are required to qualify an entrance test which is conducted by J&K Board of Professional Entrance Examinations and successful candidates are granted admissions in the various polytechnics of the state and then the role of J&K State Board of Technical Education comes into picture with registration of the students before they can appear in any of the exams. The project work aimed at reducing the time for the process of registration besides making the system efficient by giving the data entry operations to the individual students.

Keywords: The Jammu and Kashmir State Board of Technical Education (JKSBOTE); Software Engineering; Web Development; Online Registration.

I. INTRODUCTION

For any school, college or other educational institutes like Polytechnic Colleges of J&K India, students are an important asset to produce skilled human resource out of these with great quality who excel in academics, practical knowledge, self-development and innovative thinking. To achieve this, it becomes essential for every college, school or any other educational institute to analyze the performance of students. Academic performance can be measured by conducting various examinations, assessments and other form of measurements and it is where the role of a centralized examination board comes into picture to properly analyze academic performance which may vary from student to student as each student has different level of performance. The academic performance of student is usually stored in various formats like files, documents, records etc. For maintaining a large set of data regarding the students, it is important to develop an automated mechanism for registration of these students for assessing the performance of the candidate during his/her stay in the polytechnic as a student. The Proposed system eliminated all the errors and discrepancies that would otherwise result because of a centralized system of data entry while as the new system gives the student himself/herself the option to enter the data which pertains to him/her. The Institutes would then verify the records on the portal followed by a verification process in board and then accordingly all the verified students would be assigned a unique registration number.

Implementation

The Online Registration System has been developed on the basis of 3-tier architecture; where in the three tiers are the user interface, the web server and the database server.

User Interface

All the user interfaces have been developed in html and for styling and front end scripting, CSS and JavaScript have been extensively used, besides many
Ajax Queries have been used at many places for making the system dynamic.

Students are asked to visit the registration portal of JKSBOSE (http://registration.jksbotelive.com) which is hosted on a cloud server. The first thing that the students have to do is to create an account linked to a phone number. A message containing one time password is triggered to the phone number so provided to authenticate the credentials of the student. The various interfaces that have been provided are as:

1. New User Interface

![New Student Registration Form](image1)

**Figure 1.** New User Interface for student registration

2. Interface Before Photograph Updation

![Photograph Updation Screen](image2)

**Figure 2.** Photograph Updation Screen

3. Interface after Photograph Updation

![Updated Photograph](image3)

**Figure 3.** Screen Showing Updated Photograph
4. Interface for Data Entry

![Image of Interface for basic data entry]

**Figure 4.** Interface for basic data entry

5. Interface after form submission

![Image of Interface for Printing Registration Form/Bank Challan]

**Figure 5.** Interface for Printing Registration Form/Bank Challan
6. **Interface after registration number allotment**

![Registration Form](image)

**PAYMENT STATUS:** PAID

REGISTRATION NUMBER ALOTTED PROVISIONALLY: 35-04-R17-3300

Click here for Examination Portal

**Figure 6.** Display Message after allotment of Registration Number

**Webs Server (Data Handling):**

The entire web scripting of the Online Registration System has been done in php. The Sample Code Snippets of the various handlers are as:

### New User Account Signup Handler

```php
 BYU$_SESSION['UserSession'] = $data;

$UserName = $_SESSION['UserSession']['user_id'];

$querry = "Insert into User(Honors, Rd, Tel, Email, Status) values (" . $UserName . "," . $pass1 . "," . $Tel . "," . $Email . "," . $status . ");"

include "connect.php"
if(!mysqli_query($con,$query))
 die("CouldNot Create the Account//Try Again Later");
```

**Figure 7.** Account Sign Up Data Handler

```sql
SELECT * FROM User WHERE ApplicationNumber = "$ApplicationNumber"
```

**Figure 8.** Detailed data handler
Database Server:
For Managing the data in the database in the database, the relational database management system has been used for the implementation and the database language used is MSSQL. The ER Model of the system that has been used for the implementation is as shown below.

**Figure 9.** ER model of online registration system

II. CONCLUSION

Time is an asset, saving time is equivalent to gaining time. The time consumed in the manual system of registration in JKSOTE has been drastically reduced in online registration system. Thus making the system more effective and efficient.

III. REFERENCES


[7]. Han Cuiping, "Design and Implementation of Student Management System of Educational Management System", IEEE, 2014