

Online Student Portal - A Learning Portal for Every Student

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Abstract-Portal is a specially designed website that helps to bring informations together from different sources in a uniform way. Online Student Portal (OSP) is a web application which is mainly focused on one who are trying to learn known as students and the one who trying to teach a learner known as teachers. The members in this portal can exchange informations in different formats such as video, images, pdf etc. This application will be very useful for students to get updated to latest informations and to communicate with world wide learners. OSP provides services like, online book shop, online courses, forums, communities, study materials, news and events.

IndexTerms - Portal, website, web application.

I. INTRODUCTION

A website is a collection of web pages, thus a portal is a collection of links to different websites. The student portal is a gateway to connect many web applications which is useful for doing student activities. The portal web page provides access to many applications such as online courses and links to different websites.

Online student portal is a web application which is useful for learners to choose right information. OSP works like, initially the one who needs to get access only after his or her registration to the application. The membership is only provided by the admin after checking the correctness of information provided by the user. This application can be implemented in a specified organization or with a world wide access.

Only the members can make use of services provided in OSP. Thus a guest user can only view the home page of the web application. After the successful registration the user can make use of the services easily.

II. PROPOSED TECHNIQUES

Project is to maximize access to the information resources required to improve existing teaching and learning practices in education and aims to establish a technologically aware society. Online Student Portal's frontend is implemented by using HTML, CSS, JavaScript and backend uses PHP and MySQL.

In this application PHP CodeIgniter architecture is used. CodeIgniter is an application development framework which is used to build interactive websites in PHP. Thus the use of CodeIgniter framework supports multilingual support, responsive interface, web installer, backup and restore facility. All these services are applicable to the application also because of the use of CodeIgniter framework.

There are mainly 3 users in this application admin, student and teacher. The features of this application is divided into 12, and each feature itself act as a separate module. They are,

1. User Module
2. Online Book Shop
3. Discussion Forums
4. Communities
5. Study materials
6. Online Courses
7. News and Events
8. System Maintenance
9. System Settings
10. Web Installer
11. Multilingual Support
12. Backup and Restore

The online book shop service is available for both student and teacher users. It works like the one who need the book can select it and add to their own cart and complete the shopping by cash on delivery or online payment through PayPal gateway. If the users need to clear their doubts, then a discussion forum can be make use which is available in the application. If users need to discuss in particular group based on particular topic, they can make use of communities. To share and avail study materials, users can publically upload the materials which is useful for studying purposes. One interactive feature of this application is Online course, which help the students to learn more about particular subjects. Only teachers and admin can start an online course. Thus the

students anyone who register can take part of learning. News which are relevant to the users can be updated by any user in the application. Like that, events also noticed. Thus it is a common feature of the users. System maintenance is used to maintain the system, this is one of the feature of admin. System settings is also a feature of admin, which helps to manage the system settings. To setup the system a web installer is also provided. To support multilingual facility, language translation is an in-built functionality of CodeIgniter framework. The application can be easily backup and restore by the admin, because it is also an admin feature. All these features can be divided as separate module.

III. EXPERIMENTAL RESULT

This online portal is a quite useful web application and can be implemented in a particular organization or institution. Here students are the main target users. Thus in this application all the features are executed successfully. Figure shows the pages in OSP(Online Student Portal) that implemented and executed successfully. The admin dashboard has an important role in OSP, which includes the functionalities like system maintenance, system settings, language translation etc which is not a functionality of both student and teacher.



Fig: Online Book Shop in OSP

The illustration of online book shop shows the collection of books which are available and they are arranged in particular categories. Thus if the user want to buy books, they want to place order, and continue with payment through Paypal or Cash on delivery.

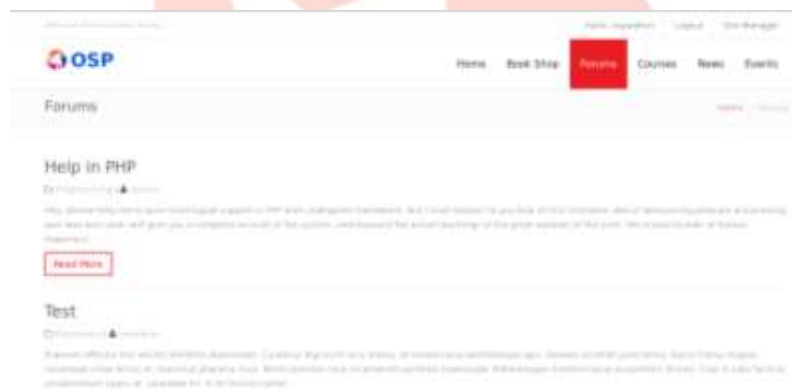


Fig: Forums in OSP

The illustration of forums shows the list of forum which are discussed by the users. It is listed on the basis of recent discussion done by users.



Fig: Online Courses in OSP

The illustration of online courses shows the list of courses available in OSP. Students can only enroll to the courses which are maintained by teachers or admin. No any student can publish a new course here.

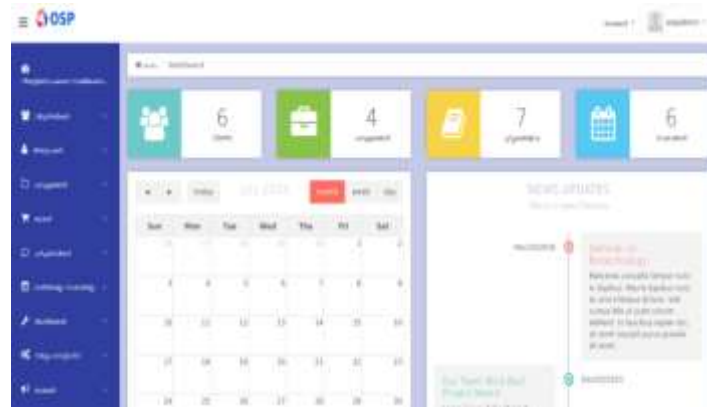


Fig: Admin dashboard in which language is translated to Malayalam

The illustration of admin dashboard shows one of the property of OSP which is multilingual property. Here the dashboard of admin is displayed in Malayalam language.

IV. CONCLUSION

The research is based on the implementation of a web portal in web development platform. It can be easily implemented in any institution without much modification. Some of the user requirements are user friendliness, data security and data maintainability. All these requirements are included in this project. The maintenance is done only by authorized person which called as admin user. Thus the application is more flexible and changes can be made without any difficulty. In future, the system can be extended to conduct various interacting sections for each and every person comes under the college or institution. Also more discussion forums can be introduced in order to know each moment in college.

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