# Online Student Portal

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**Abstract -** *Skills and knowledge can be transferred by network-enabled computers called student portal. Since new technologies are commonly thought to make a big difference in education, many universities have adopted portal of student to support teaching and learning processes. Most portal applications allow for student to delivery and tracking of e-learning courses, content, testing, and the management of instructor-led training classes. In this project, we analyze and design a portal site for University of Science and Technology-Yemen which include the following departments: Information Technology and Business Administration Accounting. So, the system designed successfully to save the students time and effort, then the educational process is proceeded easily and easily*

**Key Words:** Student portal, University of Science and Technology, UST, E-Learning, Online education.

## 1. INTRODUCTION

Electronic-learning, which is an innovative technology that provides a strategy to improve the quality of teaching and learning anytime and anywhere has become heavily learner-centered and emphasizes pervasive and personalized learning technologies. As more and more technological tools become available for online education, there are interest continues to increase the technology among educators and other professionals in the application of these tools in online courses [14]. Learning management system (LMS) are software applications that comprise online teaching and learning tools. Many higher education institutions have implemented them to support staff and student to manage online teaching and learning in order to improve effectiveness speed of educational processes and communication among learners as well as between staff and students.

In e-learning systems. Overcoming some of the traditional barriers such as the old manual system, the difficulty of obtaining information and other problems faced by students in the old system not that in the new system, students can download lessons, references and books independently through the website or the new system online.

This system or e-learning site has a relationship with teachers and students and is concerned with the educational materials of students and each article linked to educational references. so that all related subjects of education on site and reach the student easily and easily, and this site contributes to raise the perception of the student so as to extend everything needed during the process. The study will then be such this system that constitute a qualitative transfer in teaching and learning at the University of Science and Technology.

In this project, we will analyze and design an e-learning site for the following sections: Information Technology and Business Administration Accounting for the University of Science and Technology. The site will contain all references and daily lectures that are presented to students. So the faculty members can upload lectures through the site on a daily basis as well as related references. With all the lectures. As a result, the students save time and effort and the educational process is going smoothly.

## 2. SYSTEM DESIGN

This section discusses the design process for the infrastructures and components architecture of web site. The design process includes the interfaces design. Also, the installed role services for site users. The site needs a specific set of roles. Therefore, the roles installed on the web site, web site has different roles depending on each user requirement. Depending on the role of the user, the functions available for that role are exposed to it.

User interfaces which are the interfaces that are displayed on the computer screen and the result of it is what the user enters after processing it, and it is a link between the user and the machine. As for the most popular interfaces, they are mobile phone touch interfaces, as they rely on optical inputs and optical outputs as well the interface.

### 2. 1 Main Interface

The main interface let the user to access all departments of the university, once he click the department icon he can navigate to this specific department. Also the user can register as new user or login to the system through the upper ribbon in the same screen Fig. 2.1
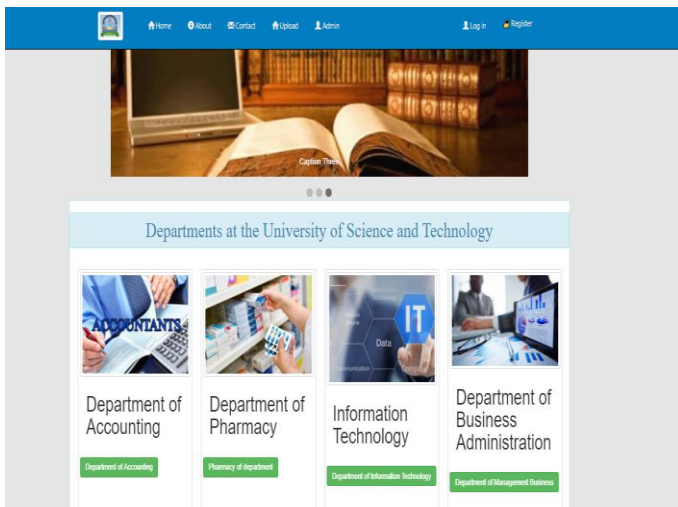
**Fig – 2.1**: Main interface of the proposed system

### 2.2.2 Register Interface

This below interface can be used for creating a new account correct user name and password is mandatory to crate the account Fig. 2.2.
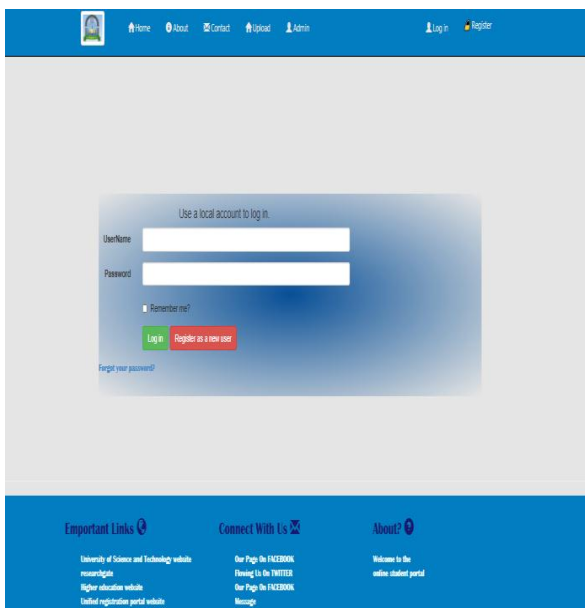


**Fig – 2.2**: Register interface

### 2.2.3 Login Interface

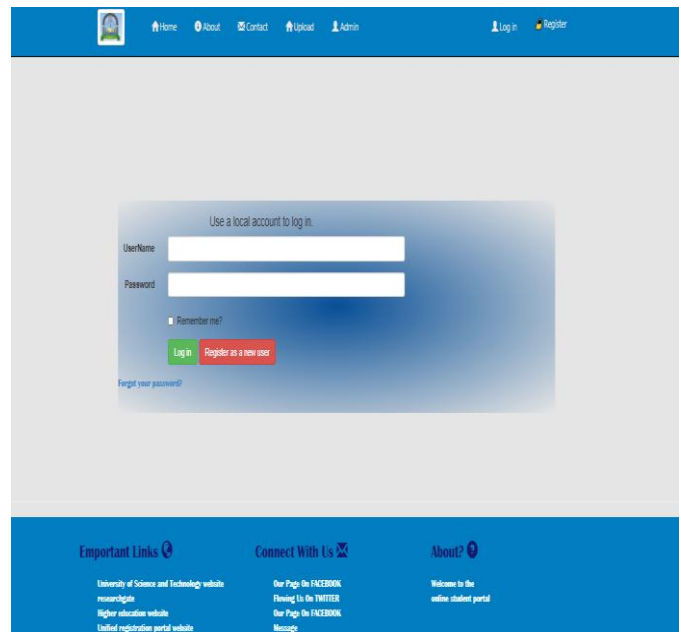This below interface can be used for Administrator and visitors login to the site Fig. 2.3.



**Fig – 2.3**: Login interface

### 2.2.4 Site communication Interface

This Interface allows site registrants to communicate with the site admin Fig. 2.4
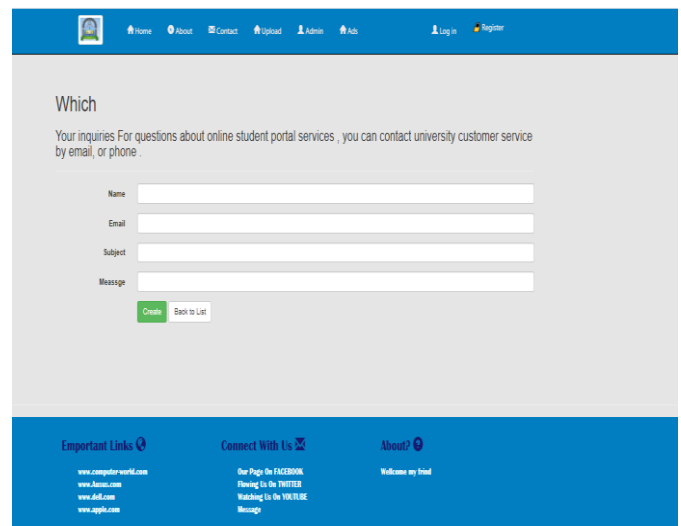


**Fig – 2.4**: Site communication Interface

### 2.2.5 Creating Departments Interface

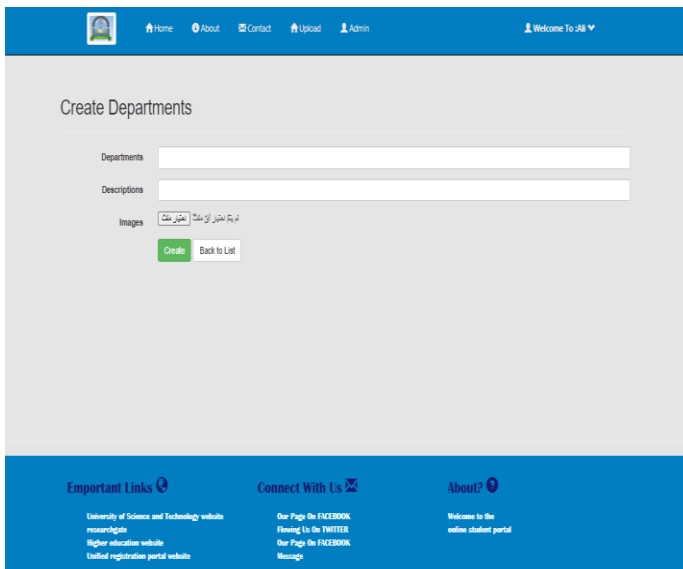This below interface can be used to create departments in the system Fig. 2.5.

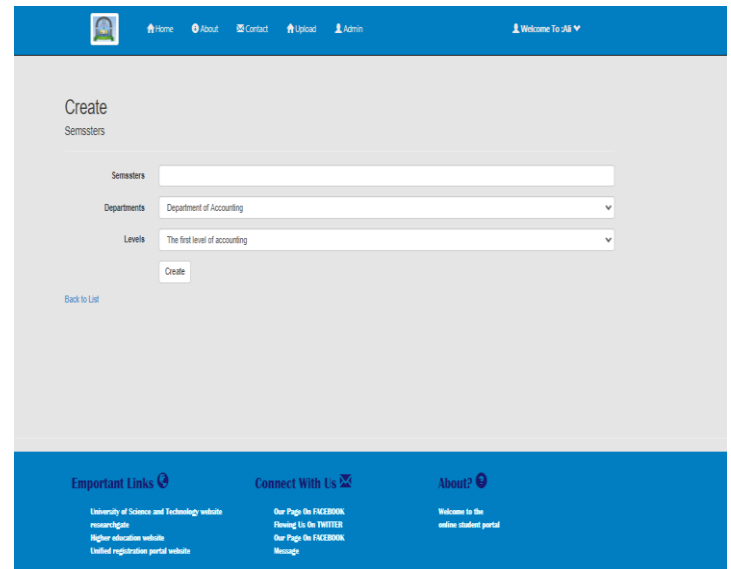**Fig – 2.5**: Creating departments Interface

### 2.2.6 Creating levels Interface

This below interface can be used to create levels in the system Fig. 2.6



**Fig – 2.6**: Creating levels Interface

### 2.2.7 Creating levels Interface

This below interface can be used to create semesters in the system fig. 2.7
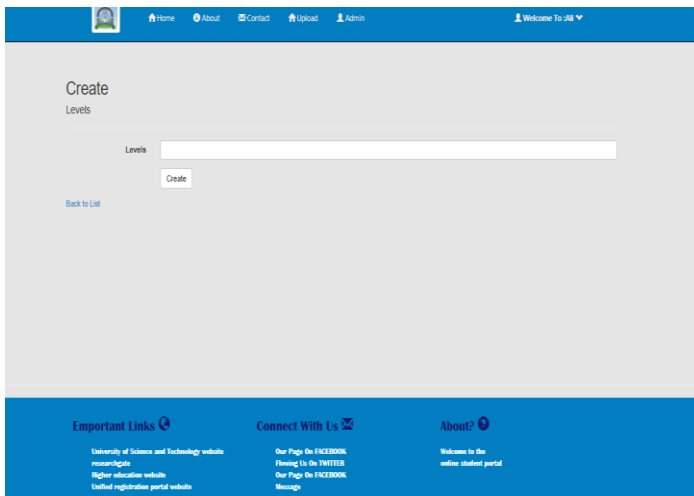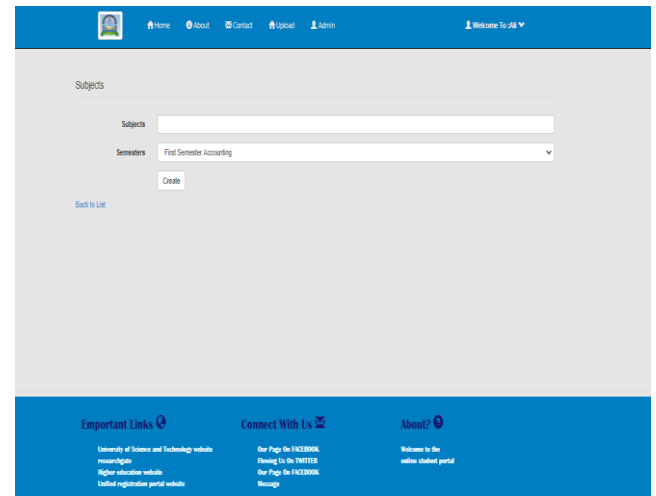


**Fig – 2.7**: Creating semesters Interface

### 2.2.8 Creating subjects Interface

This below interface can be used to create subjects in the system fig. 2.8



**Fig – 2.8**: Creating levels Interface

### 2.2.9 Creating lectures Interface

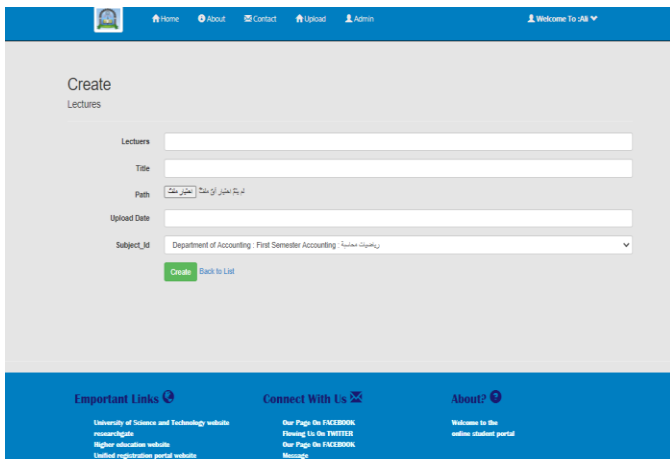This below interface can be used to create lectures for each specific subject in the system Fig. 2.9
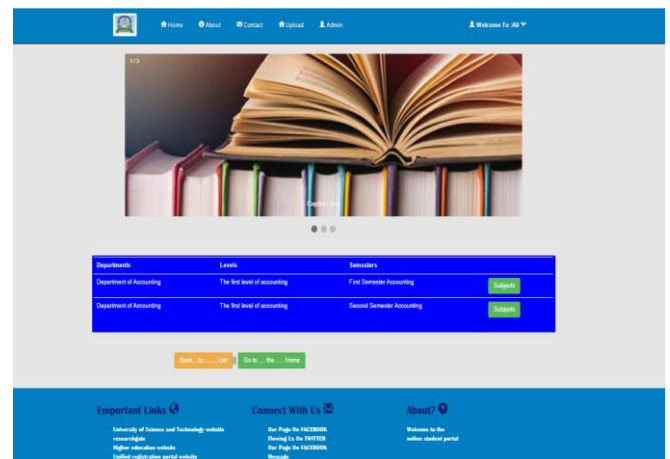
**Fig – 2.9**: Creating lectures Interface

### 2.2.10 Displaying Levels Interface

This below interface can be used to display levels fig. 2.10



**Fig – 2.10**: Displaying levels Interface

### 2.2.11 Displaying Semesters and Subjects Interface

This below interface can show you subjects of each semester for any department fig. 2.11.



**Fig – 2.11**: Displaying Semesters and Subjects Interface

### 2.2.12 List of Subjects Interface

Below interface show you a brief about the subjects fig. 2.12.
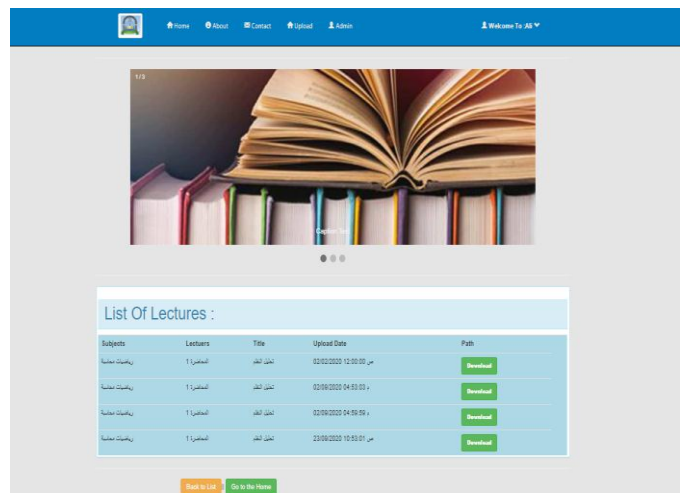


**Fig – 2.12**: List of Subjects Interface

### 2.2.13 List of Lectures Interface

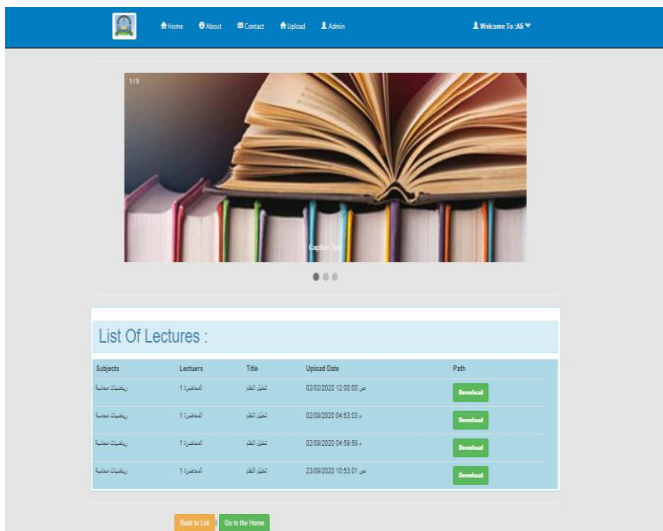Below interface can help you to download lectures from the system fig. 2.13.

**Fig – 2.13**: Download Lectures Interface

## 2.2.14 User Profile Interface

User profile interface can be used for logoff fig. 2.14.
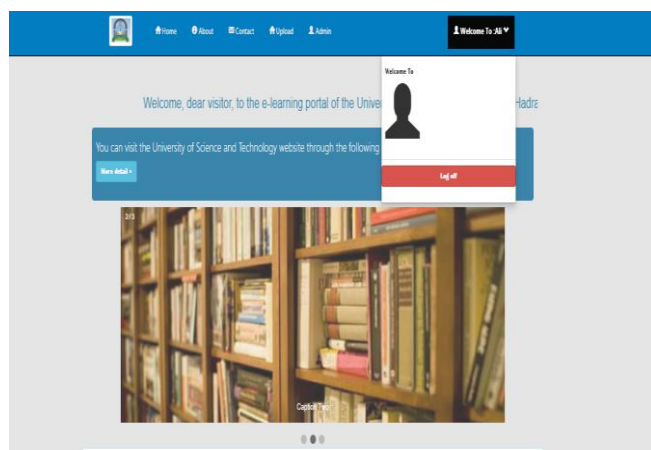


**Fig – 2.14**: User Profile Interface

## 3. CONCLUSIONS

Skills and knowledge can be transferred by network-enabled computers called student portal. Since new technologies are commonly thought to make a big difference in education, many universities have adopted portal of student to support teaching and learning processes. Most portal applications allow for student to delivery and tracking of e-learning courses, content, testing; and the management of instructor-led training classes.

In this project, we analyze and design a portal site for the following departments: Information Technology and Business Administration Accounting for the University of Science and Technology. So that the students save time and effort and the educational process is proceeded easily and easily. This system site has a relationship with teachers and

students and is concerned with the educational materials for students and each article linked to educational references. So that all related subjects of education on the site and reach the student easily. And this site contributes to raise the perception of the student so as to extend everything needed during the process.

The site receive all references and daily lectures provided to students. Therefore, faculty members can download lectures through the website on a daily basis as well as related references. With all the lectures. Therefore, the student only has to enter the site by logging in and viewing the study sites and can make a download of the contents on the site. This process saved the students time and effort and the learning process goes smoothly and helper. Exchange of educational experiences between individuals through the means of learning. Developing the skills and abilities of students and build their personalities to prepare a generation capable of communicating with others and to interact with them.

## REFERENCES

[1] A. K. Prewar, T. D. Sofianti and d. Y. Indrayadi (2015), Developing E-Learning System to Support Teaching and Learning Activities Using DSDM Approach, Performa (2015) pp.41-52

[2] M Kura (2013), E-learning System Design by Learning Management System (LMS) focusing on Emotional Aspects using Biological Signals pp.10-15

[3] B. Kwofie, (2015), E-Learning Implementation in Higher Education Institutions. Department of Electronic Systems, Aalborg University pp.44-66

[4] K Thuraya (2015), Improving the Effectiveness of E-Learning Implementation in the School of Engineering at Tripoli University. Doctoral thesis, University of Huddersfiel

[5] O Deperlioglu (2011), development of a relational database for learning management systems pp.17-25

[6] N Maharashtra (2019), PCE Staff/Student Portal **https://www.pce.ac.in/students/pce-student-portal/**

[7] M Gupta and S arsden (2018), Lessons Learned from Implementing E-Learning for the Education of Health Professionals in Resource-Constrained Countries pp.12-30

[8] G Musca and Andrei and Lucian (2018), No.59A, Iasi-700050, Romania pp.45-49

[9] S Hadjerroui (2017) Applying a System Development Approach to Translate Educational Requirements into E-Learning pp.11-33

[10] A allaIdris and Y Osman (2017), Implementation of E-learning in The University of Gezira Barriers and Opportunities pp.7-22

[11] G. Daniel, "Emotional Intelligence: Why It Can Matter More Than IQ", New York: Bantam, 1995.

[12] J. A. Russell, "A circumflex model of affect" in Journal of Personality and Social Psychology, 39, pp. 1161-1178, 1980

[13] C, K.-H., Yoo, H.-J. & Kim, H.-S. (2005). A process-driven e-learning content organization model. Fourth Annual ACIS International Conference on Computer and Information Science. 328 - 333. ICIS 2005: Jeju Island, South Korea

[14] J, Claude Brugnara (2015), E-learning management system for thesis process support from a supervisor perspective pp.12-13

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