

The University of Lahore

OOSE

Submitted

To

**Sir Ahsannabi**

BY

**Husnain Zafar**

**Haris Waseem**

**Umar Shahzad**

REG # **BSSE02153010** Section # **T**

REG # **BSSE02153160** Section # **T**

REG # **BSSE02153065** Section # **T**

**Course Allocation System**

**Goals**

As project developers we developed a new course registration system to replace the existing manual registration since manual system are prone to errors and take more time. The system made by user friendly and reduce the burden of users. Our system can be made available even in the website of our college. Students can easily register the course in our system without any difficulty and can easily understand and also time taken for registration is less when compared to manual registration.

**Abrader Goals**

* 60% reduction in time consumption
* 45% of cost reduction of staff for course registration
* 40% time saving for students
* Student should be able to enroll remotely

**Requirements and Required Modules**

**Client Operating Systems**

* Windows
* Android

**Client Application**

* Java and Java Script compatible browser:
* Chrome
* Android
* IOS

**Help Desk Support**

System users have a 24x7 access to telephone assistance for questions that are technical in nature, such as, slow or sluggish system response time, incompatible browser features, application errors, system downtime inquiries, account lock-out assistance, etc.

**Application Services and Technical support**

Programmers and application developers will have access to source code to address bugs or system enhancements as deemed necessary. Network Administrator and DBA support is also required to maintain a 24x7 system uptime

**Administration Features**

System security and access levels are provided in the online system. There are varying levels of system access and functional authority. Each student’s access is limited to his/her own registration records. Only authorized system administrator(s) has access to all student registration records

**System hardware fail over and routine back up**

Computer operations center will handle system hardware tasks such as data tape back-up, hardware maintenance, fail over, scheduled system patches and maintenance.

**Student Self-service**

Student can make changes to his/her courses that are about to be taken for a semester in the future. All system (browser) interfaces are based ISO accepted industry standards for the WWW. Among others the online registration system will have the following functionalities:

* **Personal Profile**
* Student Address
* Student Authentication/Change PIN
* Email/Fax Address
* **Registration**
* Registration Status
* Course Status
* Student’s Current Schedule
* Register for a course
* Add or drop a course
* Course Evaluation Guide
* Registration Schedule

**Student identifier key and user access**

Each student is assigned a unique identifier upon admission to the university. The student must know this. This identifying key maps to all his/her registration record information in the main registration system. Admitted and current students have their online registration accounts also enabled. Such account maybe disabled after separation from the university.

**Data validation**

Data error from the user’s end and from the back-end database-processing end must be gracefully handled. There will be data validation and error-handling routines as part of the online registration system.

Why we want this application

* Would save a massive amount of work to the registrar’s office, with directly consequent economical gain as well as conservation of time
* It would provide a more efficient and satisfactory schedule for the client (students)
* It would provide clear and precise statistical information (such as the students’ interest and the most requested classes) that would probably be useful for future reference.
* It would provide a better chance to obtain the desired classes, which would directly influence the scholastic career and, therefore, the working career
* It would make it possible to register for the coming semesters without physically presence
* It would take less time to conclude the registration process

**Constraints**

**Performance**

Must resolve locking issues and handle concurrent use of the system on a 24x7 basis. Send, receive and display user messages to assist the over-all user experience.

**Scalability**

University has currently one lack of students which are increasing day by day. So the system should be able to accommodate the increasing number of students. Other features may be required in feature.

**Course Constraints**

* Courses have scheduling conflict
* Course does not exist
* Course requires a prerequisite that is not met

Course has already been registered and or completed