V**ALLEY** V**IEW** U**NIVERSITY**

DEPARTMENT OF COMPUTER SCIENCE

**PROJECT SYSTEM DOCUMENTATION**

**PROJECT** NAME**: EXAM HALL SEAT ALLOCATION SYSTEM.**

**GROUP 9**

**COURSE CODE:** COSC346 SOFTWARE ENGINEERING/INFT346 SOFTWARE DEVELOPMENT LIFE CYCLE

**PROJECT CLIENT: MR EMMANUEL PRAH (VVU EXAMS OFFICER: 0240103900)**

**GROUP MEMBERS**

**ADOBOR, ISAAC OGHENECHUKO 215IT01002706**

**SAM-ARTHUR, ERIC (secretary)215IT01002930**

**JOSEPH, AGBEMENU (leader) 216BE02004096**

**ABIODUN, OSIGBELU SAMUEL 215IT01002802**

**STEPHEN, AMOAH-ADJEI 215IT01003240**

**ABSTRACT**

Exam Hall Seat Allocation System is developedto simplify examination hall allocation andseating arrangement. It facilitates to access the examinationinformation of a particular student in a particular class. Thepurpose of developing exam hall seat allocation system isto computerized the traditional way of conducting exams.Another purpose for developing this software is to generate theseating arrangement report automatically during exams at theend of the session or in between the session. Thisproject will be developed as a web based application. Mostly students are facing manyproblems for finding the exam hall and their seats respectively**.** A newly invented concept can aid for the students forchecking their exam halls. This helps them to get directions to their respective halls without delays.

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USER MODULE

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SEQUENCE DIAGRAM

USE CASE DIAGRAM

ACTIVITY DIAGRAM

**CHAPTER 1**  
**1.0 INTRODUCTION**

Examination Hall Seat Allocation System is developed to simplify the allocation of halls with appropriate seat number to students during exams. It facilitates to access the examination information of a particular student in a particular department. The information is sorted information alphabetically, which will be provided by the teacher for a respective department. This system also helps in finding the examination eligibility criteria of a student of the particular department.

**1.1 PROJECT OBJECTIVE:**

1. To computerize the traditional way of conducting exams.
2. To generate the seating arrangement automatically.
3. To relieve both students and exams coordinators from stressful search for names and seat at notice board and pasting of seat allocation all around on the various exams centers.
4. To prevent exams malpractices, since student’s seats will be generated randomly irrespective of the course or department of the student.

**1.2 PROJECT OVER VIEW:**

The document is containing the user requirement engineering for exam hall seat allocation system prepared for the client (Mr. Emmanuel Prah, VVU exams officer).

**1.3 PROJECT SCOPE**

The scope of the project is the designing of a web

interface and it will be given to a college for future use.

**1.4 STUDY OF THE SYSTEM**  
*1.4.1* ***MODULES:*** This system has been divided or broken into modules in other to explain the block functionalities of the system. The modules involved are:

* Administrator
* student

1.4.2 **ADMINISTRATOR**

The administrator is the main controller or manager of this system. Only admin have access into this admin page with detailed login information. The administrator has all the information about all the user. This module is divided into different sub-modules which he manages.

1. User/student
2. Department
3. course

4. hall

The admin can perform the following activities using the system.

1. Log onto the system and logout with login username and password.
2. View and add student informations onto the system by entering them one after the other or uploading large number of student’s information in a csv file.
3. The admin can also add departments that are to be involved in the exams, the courses and hall where the exams would take place.
4. The admin has the opportunity to delete and edit from any of the submodules whenever he/she wishes to do so.

ADMIN MODULE

MANAGE DEPARTMENT

MANAGE USER

MANAGE HALL

MANAGE COURSE

ADMIN

MANAGE USER

SEARCH USER

DELETE USER

ADD USER

EDIT USER

MANAGE USER

MANAGE HALL

EDIT HALL

ALLOCATE HALL

DELETE HALL

MANAGE HALL

ADD HALL

MANAGE DEPARTMENT

EDIT DEPARTMENT

VIEW DEPARTMENT

DELETE DEPARTMENT

MANAGE DEPARTMENT

ADD DEPARTMENT

MANAGE COURSE

SEARCH COURSE

VIEW COURSE

DELETE COURSE

MANAGE COURSE

ADD COURSE

**1.4.3 User**

Inside the student module is other sub-models which are:

1. Add course
2. View course
3. View seat
4. Student ID (sub modules: edit profile, change password, logout)

The student has the opportunity to perform the following activities at the student page

1. The student can login onto and logout the system using username and password.
2. He can add the courses that is going to be written in the exams
3. Can view the courses added
4. Can also view seats that will tell the student the hall name and seat number of that particular paper exams
5. The student has the privilege to view profile.
6. The student has the privilege to delete and edit from any category of under the student ID submodule are also other submodules that can enable the student to edit profile, change password.

USER MODULE

ADD COURSE

VIEW COURSE

EDIT PROFILE

VIEW SEAT

USER

BEHAVIORAL DIAGRAM



SEQUENCE DIAGRAM



Use case diagram



ACTIVITY DIAGRAM



**CHAPTER 2**

**2.0 SYSTEM ANALYSIS**   
**2.1 EXISTING SYSTEM**

Existing system is very slow and inefficient. Report

generation is also not an easy task in the current situation.

Also, if the report is generated then calculations are done

manually that leads to more errors. There is a lot of manual

work involved in current system and mistake in one detail

can lead to wrong generation of page. No proper collection

of requirements leads a huge problem for this system. This

System is to enhance manual work and also more energy is

wasted to allocate the seating arrangement.

**2.2 DISADVANTAGES OF EXISTING SYSTEM**

 Current system is manual so all the records are

maintained manually. So, the seating arrangement of

students cannot be determined if updating is not

done.

 Time Consuming

 Less Efficient

 More manual Work Required

 Less Accurate

 Not User Friendly

 Difficult in hall ticket generation

**2.3 PROPOSED SYSTEM**

**USER FRIENDLY**

This system is user friendly for the retrieval and

storing of data. And it is fast to store the data. It is maintained efficiently. The graphical user interface is

implemented in this proposed system. It is more efficient

than existing system.

**REPORTS ARE EASILY GENERATED**

Reports like seating arrangements can be easily

generated in this proposed system by that user can generate

the report as per the requirement and their wish for the

duration of month or the day but not in the middle of the

session.

**VERY LESS PAPER WORK**

The proposed system requires very less paper

work. All the data is entered into the computer immediately

and reports can be generated by the help of computers. So that work will become very easy because there is no need to

keep data on more papers.

**2.4 COMPUTER OPERATOR CONTROL**

Computer operator control is available so rate of

errors will be less. Storing and retrieving of information is

simple. So work can be done correct time and also good in

speed

**2.5 USER REQUIREMENT SPECIFICATION.**

The user (exams officers) are able to enter and generate the seat allocation.

1. The main specification outlines by the user is to be able to make sure that a student is not surrounded by a colleague who is writing the same paper since this will prevent malpractices.
2. The user also seeks that, if the exams hall contains students writing the same paper, the system should be able to generate double even numbers in other to give spacing between students to prevent malpractice
3. The system should also be able to generate set of numbers for a particular department if the exams hall contains different departmental students. Example: o generate seat number 1 to 20 for it students writing information systems, seat number 21 to 40 for biomedical students writing medical imaging.

**2.6 FUNCTIONAL REQUIREMENTS**

The functional requirements of the system simply old is that the system delivered in order to meet user’s requirement as mentioned in the user specification.

1. Check examination hall
2. Check seat number
3. Print exams seat slip before exams

**2.7 NON-FUNCTIONAL REQUIREMENT**

All other to do task that are not present in the functional requirements will be considered as the non-functional requirement

* 1. **SOFTWARE ENVIRONMENT**

**2.8.1 HTML**

HTML is an application Standard Generalized

Markup Language (SGML). It approved in 1986.HTML and

SGML is to define WWW hyper document and inter

connectivity. When we compare HTML, it is quite better

than SGML.

**2.8.2 BACK END**

**MYSQL**

MySQL server is powerful database and it requires

limited programs and used has back end. It supports GUI and

more application is developed by help this server. Collection

of tables, which holds the data is called database. A beginner

can create their own database by click home page.

* + 1. **TABLES**

Collection of similar data is called tables in

MySQL. These tables are stored in the same database file

because they often have some changes if require. And it can

be fill out easily.

**2.8.5 FUTURE ENHANCEMENT**

The existing system can be enhanced, by storing the hall ticket into a database, instead of a file so that the statistics about the hall ticket obtained can be easily analyzed. Using php, insert the timetable by entering the time and date for the particular papers and create the seating arrangement. And also database of the exam timetable can be entered for students to view their halls and timing of the exam. By internet, automatically timetable has to fetch to the database and that seating want to be created according to the particular day and session.

**2.9 CONCLUSION**

A web based interface for showing hall name for

student is developed, which makes students to see their seat

in respective hall, easily. A web based interface for analyzing

the student academic details are developed. Username and

password is created for unique user by register their details

in register module. And they can change it by the permission

of administrator only.

**3.0 REFERENCES**

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[3] http://www.phpbuilder.com/

[4] http://www.w3schools.com/php/default.asp