STO ASSESSMENT SYSTEM

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I. INTRODUCTION

Information and Communication Technology (ICT) has brought a new era for all areas in developing countries. ICT infrastructure has become a serious matter because of the need to develop greater knowledge compared to the days before, especially in the domain of the education system. This study is focused on how to give convenience to the examination for the Maritime students complying the Final part of their requirement to accomplish their bachelor degree. Using manual preparation and process for the said examination takes a lot of time and effort like printing of exam papers, manual checking of papers, manual sorting of results, releasing and manual item analysis. The online examination system is the culmination of the student's assessment by the use of the internet and available web technologies (2022 GoSchooler). Online examinations are one of the digital world's wonders, and they have completely changed the way traditional examinations are conducted. These computer-based tests have been a benefit to academic authorities since they allow them to conduct examinations with minimal disruption and ensure the highest level of correctness (Kohbee Technologies). Educational institutions are burdened by cumbersome paperwork and manual processes, and they find it difficult to maintain records on attendance, fees, admissions, transport, etc., and track the information they need. Using School Management System, automate academic processes to save time and reduce staff workload (Creatrix Campus). The benefits of online testing include a wealth of assessment opportunities for both the examinee and the examiner providing the assessment (2021 Mercer LLC). And in short according to (2022 Easy LMS B.V.) It saves paper, time, money and it's more secure.

The proposed system can create/add, register, delete users and manage users, it can create/add, edit and delete questions for the Examination courses, can manage results, see the list of takers and do the item analysis.

This study took place at VMA Global College, currently implementing a physical and manual process of examination/ assessment for Maritime students processing their BS Degree.
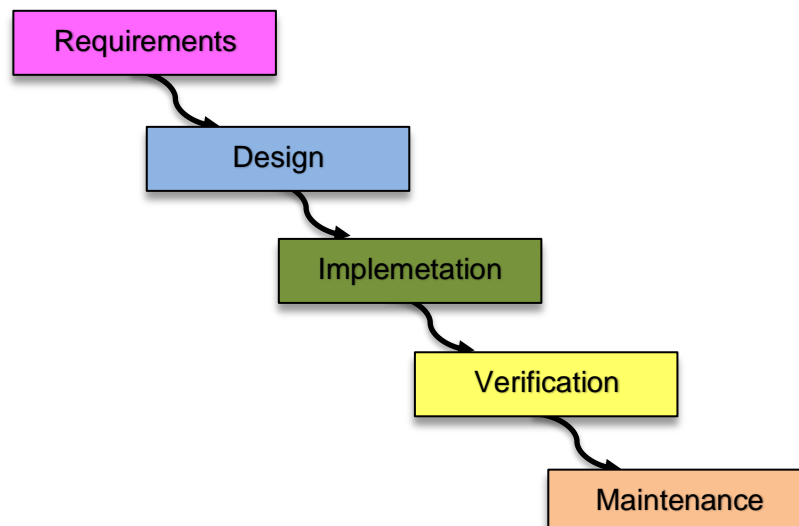
OBJECTIVES OF THE STUDY

This study aimed to create a System that be able to assess and evaluate the BS Maritime graduating students of VMA through online examination, this study will be able to:

1. To register students/ applicants for the examination.
2. To manage users of the system.
3. To import/ encode questionnaires/ questions.
4. To generate, edit, sort or randomize questions.
5. To generate results of the examination.
6. To manage the list of students for retake.
7. To perform item analysis.
8. To classify and print list of exam takers from a specific date.

II. METHODOLOGY

System Design

This study used Waterfall Model of System Development to achieve the system's desired objective.

The waterfall model is a classical model used in system development life cycle to create a system with a linear and sequential approach.

Requirement Gathering

The researcher gathered the needed data about the existing problem through a interview with the related officer and staffs. The researchers also determined the technical requirements to be used in building and designing the prototype.

Quick Design/Build

At this phase, the developer designed the system. Wherein the bootstrap 5 were used for design and the php, mysql and java for the codes.

Prototype Evaluation

When the initial design was done, the system was tested by some staff and sample students. The prototype was carefully examined, evaluated, and tested. The developer then fixed minor errors and defect in the system to make sure that everything will work and function according to purpose.

Refinement

Based on the findings and the result of the initial testing of the prototype, the developer carefully made some refinement and another round of debugging in the line of codes. All recommendations from the concern department and staffs who participated in the initial testing were taken and applied on the final testing of the system.

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