Preface

This is a documentation on the Computer Science 128 project by Tyrel Justin Dogup, Peter John Ramos, Enrico Baello Jr., and Joel Ivan Sarmiento. The project is a student information database and mental health survey requested by the Guidance office of the University of the Philippines – Baguio Campus.

Introduction

The project was made in accordance to the request of the Guidance office to lessen paperwork and for a greener and environmental-friendly campus.

The system includes a student information database. The add student function will be used by freshmen and transferees. This function collects personal information, financial background, and educational background of the student. Security functions where added in order to protect the information collected.

The manage student function can only be used by an administrator of the system. This allows the administrator to search for an information on a specific student and either edit or delete it. The administrator can also print this information upon student or administration request.

The edit student form function allows the administrator to edit the form to be filled-up by the student in the add student section or when editing a student. The administrator can add fields or tables, delete current fields and tables, and update fields and tables.

The second function of the system is a mental health survey. The student password section, only accessed by administrators, allows the administrator to search for the passwords students use for the survey. The administrator can also generate new passwords in this section.

When a student is logged in, he or she will immediately be redirected to the survey form. After answering the survey and the student clicks the submit button, he or she will be prompted that he or she can no longer answer the survey once it is submitted. The results and interpretations for this survey can be accessed in the student information section.

Glossary

Database - a structured set of data held in a computer, especially one that is accessible in various ways.

Administrator - a person responsible for running a business, organization, etc.

User Requirements Definition

**Non-functional Requirements**

Security – An administrator function has been added so that students or other users would not be able to access the student information page and mental health survey page.

Performance and Usability – Use of the system is made easier with a simple user interface with clear buttons and some shortcuts.

System Architecture

Upon startup the database opens into the homepage. The homepage header includes the University of the Philippines logo and three buttons for page navigation. The main page includes two buttons, the first being the button that takes the user to the Students Information Page while the second button takes the user to the Survey Page. If the user is not logged in upon clicking one of these buttons, he or she will be redirected to the login page, otherwise, he or she will be directed to the page selected.

The Students Information Page can only be accessed by the administrator in order to ensure confidentiality of student information. The Students Information Page has three buttons: Add Students, Manage Students, and Edit Student Forms.

The Add Students button directs the administrator to the Add Students Page. The default tables include the student’s background information, family data, educational data, and financial information. A sidebar has been included for easier navigation to different tables. The sidebar also has the submit button which when clicked, stores the information entered into the database. The user is then redirected into the first table with all fields cleared to allow multiple student inputs.

The Manage Students button directs the administrator to the Manage Students Page. The first thing to see upon being directed to the page is the search filter selection. To select multiple filters just click the add button. Logical operators and and or have been added to filters in order to make searching easier. When the magnifying glass icon is pressed, a table will be shown that matches the search filters. To edit a specific student’s information, the user need only click the student number of the student to be accessed. This then redirects the user to the Edit Student Information Page.

The Edit Student Information Page allows the administrator to edit fields of the selected student. The administrator can also delete the record of the student selected or print it using the buttons from the sidebar. The sidebar also shows the results and interpretation when the student selected has answered the mental health survey of the system.

The Edit Student Forms button directs the user to the Edit Student Forms Page. This page allows the administrator to add tables and fields for students to fill up. The administrator can also rename any table or fields currently in the system, delete tables or fields, change the order these tables or fields are arranged when viewed, and add new tables or fields.

A trash can button can also be seen on the upper right hand corner of the Students Information Page. Clicking this will direct the user to the Recycle Bin Page. The Recycle Bin Page allows the user to restore or delete any student record, table, or field when it has been deleted by accident.

If an administrator is logged in, the Survey Page will have two buttons namely, Student Passwords and Go to Survey. The Student Passwords page has two functions. The first is to show the administrator all passwords depending on the search filter used and the second is to generate or regenerate the passwords for the students depending on the filter selected. The Go to Survey button directs the administrator to the survey page.

If a student is logged in, he or she will immediately be directed to answering the survey. This survey can only be answered once by a student and it is clarified to the student when the submit button at the end is clicked. The results and interpretation of this survey will be viewable at the manage students page.

The last functionality of the system is the Admin Edit Page. This can be accessed by the administrator by clicking the admin button at the bottom left of the screen. The page includes changing the username, the emergency email, and the password of the administrator.

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