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| **Low-Fidelity Prototyping Report** | | |
| **Project Title** | **:** | **PHP CRUD GENERATOR** |
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| 1. **PROBLEM AND SOLUTION OVERVIEW** |
| The main problem is time constraints on how to develop the system. As the user, they must learn about programming language and understand how system development works such as data input, data output and process between input and output. As a developer, they need to present the idea or solution for their customer once the requirements are known. It consumes time to build a prototype that including CRUD functions during design and development phases.  Therefore, the PHP CRUD Generator is the solution and it will become an easy way to develop the system for CRUD functions and can reduce the time development.  **The objectives of the project are :**  **1.To design the prototype of PHP CRUD Generator.**  **2.To develop PHP CRUD Generator by implementing the functions into the coding.**  **3.To evaluate PHP CRUD Generator whether it function well and free from any error.** |
| 1. **LOW-FIDELITY PROTOTYPE DESCRIPTION** |
| **The low-fidelity prototype is designed and developed before implementing the whole codes in the project during the development phase. It also identifies the programming tools, general functionalities and limitations. The low-fidelity prototype also including some codes such as for the interfaces involved and some functions.** |
| **2.1** **Programming Tools** |
| The coding editor used for the project is Dreamweaver to design and development of the web. The Dreamweaver supports HTML, CSS, PHP and JavaScript. Next, the phpMyAdmin is a database tool to manage operations such as database, tables, relations and more. It also intends to handle the administration of MySQL over the Web that is written in PHP. Lastly, XAMPP used to create a local web server and Web Browser to display the interfaces and functions of the project. |
| **2.2. General Functionalities** |
| |  |  |  |  | | --- | --- | --- | --- | | **No.** | **Requirement ID** | **Requirement Description** | **Priority** | |  | **PCG\_01** | **CREATE DATABASE** | M | | 1. | PCG\_01\_01 | A new user must create database before generate CRUD. | D | | 2. | PCG\_01\_02 | System must display a page that allow user to key in their database name. | M | | 3. | PCG\_01\_03 | The system must save the database name and send message whether is success or fail. | M | | 4. | PCG\_02\_02\_01 | System must display a page that allow user to key in table(s) details :   1. Table name 2. Name attribute 3. Type of attribute 4. Length of attribute | M | | 5. | PCG\_02\_02\_02 | The system must save all the table(s) details. | M | |  | | | | |  | **PCG\_02** | **GENERATE CRUD** | O | | 6. | PCG\_02\_01 | System must display a list of table page and user shall select table name to view. | M | | 7. | PCG\_02\_02 | System must display a specified table page with its record(s). | M | | 8. | PCG\_02\_03 | User shall add new table record, view, update and delete a specified table record(s). | D | |  | PCG\_02\_02 | **Add / Create** | O | | 9. | PCG\_02\_02\_01 | System must display a page that allow user to key in table record(s) in its attributes. | M | | 10. | PCG\_02\_02\_02 | The system must save all the table record(s). | M | |  | PCG\_02\_03 | **View / Read** | O | | 11. | PCG\_02\_03\_01 | System must display a page that view a specified table record(s) selected by user. | M | |  | PCG\_02\_04 | **Update** | O | | 12. | PCG\_02\_04\_01 | System must display a page that allow user to update a specified table record(s) selected by user. | M | | 13. | PCG\_02\_04\_02 | The system must save all updated table record(s). | M | |  | PCG\_02\_05 | **Delete** | O | | 14. | PCG\_02\_05\_01 | System must display a page that confirm the user to delete a specified table record(s). | M | | 15. | PCG\_02\_05\_02 | The system must delete specified table record(s) from its table in database after the user click button “Yes”. | M | |
| **2.3 Limitations** |
| The limitations of the prototype is the prototype can open in the web browser. It also does not have secured database which is no password and root as username. It cannot join database with other database and add foreign key between tables. In this prototype, some functions will not function yet with SQL statements such as update and delete table, add new record, read and view record of table. |
| 1. **MAIN FUNCTIONALITIES** |
| The prototype design and develop with its main functions such as create database and generate CRUD. |
| **3.1 Running and Stopping the System** |
| The prototype begins when the user click Open button to go the page which Create Database. Then, the user enters the database name and click Submit button. The user will add new tables with details in the database. After that, the user can click any table name in View Table page to add, read, update and delete record in the table. |
| **3.2 Specific Functionalities** |
| 1. **Main page**   1  This is the main page for PHP CRUD Generator. The user needs to click Open button to go to the next page.   1. **Create Database Page**   2  In this page, the user needs to key in database name and click Submit button. If the name is already exists, it will display error message and the user needs to resubmit database name. Otherwise, the user clicks Submit button to go to the next page.   1. **View Tables Page**   3  The user needs to click Add Table button to add new tables into the database. It will go to the Add Table page. For the Back button, it will go to previous page (Create Database page).   1. **Add Table page**   4  The user enters the table name and the details of table. The user can click Add button to add new row for table attribute. After that, the user clicks Save button and it will save the table into the database. It will go to the View Table page. Same goes Back button, it will View Table page.   1. **View Table page ( with example after inserting tables name)**   5  After inserting the tables with the details, the user can click any table name to create, read, update and delete record of table in the next page. For the Update in the action, it will go to the Update Table page to update table and the Delete in the action, it will go to the Delete Table page to delete table. For example, there are the Update and Delete page(with example) below :  11  12   1. **View Record page (with the example)**   6  In this page, it will display record of selected table. There are some actions in this page such as add new record, read, update and delete existed record. If the user clicks one of four actions, it will go to the perspective page. For Back button, it will go to the View Table page.   1. **Add Record page (with example of table fields)**   7  In this page, the user needs to enter new record with its details and click Add button. If not, the user can click Back button to go to the previous page (View Record page).   1. **Read/View Record page (with example)**   8  In this page, it will display the selected record with its details. The user can click Back button to go to the View Record page.   1. **Update Record page (with example of table fields)**   9  The user can update the selected record by entering the update details and click Update button. Otherwise, the user clicks Back button to go to View Record page.  **J)Delete Record page (with example)**  10  This page will display name of selected record to delete. If the user clicks Yes button, it will delete the record from the table and back to the View Record. If the user clicks No button, it will display the View Record. |
| Student’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **TO BE FILLED BY THE SUPERVISOR** |
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