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| **TEST PLAN** |

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| **NAME:** | **NORHALIMAH BINTI MOHAMAD RAMLI** |  |  |
| **LECTURER:** | **DR SYAHIDA BINTI HASSAN** | **GROUP:** | **D** |
| **PROJECT TITLE:** | **PHP CRUD GENERATOR** | | |
| **SUPERVISOR:** | **DR AMRAN BIN AHMAD** |  | |

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| **INFORMATION SHEET** |
| **Usability Evaluation of PHP CRUD Generator**  **Dear participants,**  **Thank you for participating in this evaluation study. This study is carried out by a final year student of BSc. (Hons.) (Information Technology) of School of Computing as an assessment for the STIX3923- Project 2. The information about the student, supervisor, the project and the evaluation is stated below.**  **Who are the developers?**   |  |  |  | | --- | --- | --- | |  | **Student** | **Supervisor** | | **Name** | Norhalimah binti Mohamad Ramli | Dr Amran bin Ahmad | | **E-mail** | halimahramli6596@gmail.com | amran@uum.edu.my | | **Phone** | 011-51188677 | 019-4764694 | | **Mailing Address** | Beranang, Selangor | UUM, Kedah |   **What is the study about?**  This project aims to evaluate PHP CRUD Generator meets the user requirement and how well users can learn and use a product to achieve their goals. It is also to evaluate usability of PHP CRUD Generator. The PHP CRUD Generator is a tool for the users to create their system without any programming experience and allow them to create, view, modify and delete data.  **What should you do for this usability evaluation?**  Participant who wishes to participate in this study will undergo a field experiment in which he/she has to perform the following tasks:   1. Read and sign a consent form. 2. Perform the tasks based on test cases. 3. Answer the post-task questionnaire.   The total time required to complete the study should be approximately 20 minutes.  **How do we use data you have provided?**  The results of this study can provide evidence regarding PHP CRUD Generator can allow the users to create, view, modify and delete data. Your name will never be connected to your responses on the questionnaires; instead, a number will be used for identification purposes. Information that would make it possible to identify you or any other participant will never be included in any sort of report. All the data collected in this research will be disposed according to the UUM procedure of disposal confidential documents when the research of this study has been published. During the period of the study, the data will also be published in field testing report and final report of the project.  **What are your right?**  Your participation in this study is entirely voluntary and you may refuse to complete the study at any point during the activity or refuse to answer any questions with which you are uncomfortable. You may also stop at any time and ask the developer any questions you may have. |
| **PARTICIPANT CONSENT FORM** |
| **Usability Evaluation of PHP CRUD Generator**   * I have read and understood the information sheet provided. * I have asked any questions I had regarding the evaluation procedure and they have been answered to my satisfaction. * I understand that I am free to withdraw from the study at any time, or to decline to answer any particular questions in the study. * I agree to provide information to the developers under that condition of confidentiality as stated in the information sheet. * I agree to participate in this study as stated in the information sheet.  |  |  |  | | --- | --- | --- | | Name | : | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |  |  | | Signature | : | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |  |  | | Date | : | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

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| **TEST SCENARIO/CASES** |
| |  |  | | --- | --- | | Test Case ID: | TOA01 - Create new database | | Prerequisites: | Start Apache and SQL in XAMPP | | Test Procedure: | 1. Launch system in any browser 2. Click “Open” 3. Fill up the new database name 4. Click “Submit” | | Time taken by time keeper: |  | | Expected Result: | * Respondents can create the database and go to the next page |  |  |  | | --- | --- | | Test Case ID: | TOA02 – Create table in database | | Prerequisites: | Start Apache and SQL in XAMPP | | Test Procedure: | 1. Click “Add table” 2. Fill up the following    1. Table name    2. Name    3. Type    4. Length 3. Select the following (optional) 4. Auto increment (automatically become primary key) 5. Primary Key 6. Click “Add” to add another attributes/cells (optional) 7. Click “Save” | | Time taken by time keeper: |  | | Expected Result: | * Respondents can create the table |  |  |  | | --- | --- | | Test Case ID: | TOA03 – Generate table add, view, update and delete record(s) in the table | | Prerequisites: | Start Apache and SQL in XAMPP | | Test Procedure: | 1. Click on table name 2. Click add icon to add new record 3. Fill up the following based on the attribute(s) 4. Click “Add” 5. Click view icon to view the chosen record 6. Click “Back” 7. Click update icon to update the chosen record 8. Update the following based on the attribute(s) 9. Click “Update” 10. Click delete icon to delete chosen record 11. Click “Yes” to delete or “No” to cancel | | Time taken by time keeper: |  | | Expected Result: | * Respondents can create, retrieve, update and delete record(s) in the table | |

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| **TEST SCRIPT** | |
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| **Date of Experiment** | 15 - 20 May 2020 |
| **Time** | 9:00 am – 11:30 pm |
| **Number of students** | 30 participants |
| **Venue** | Anywhere |
| **Equipment** | * Computers/Laptops that installed XAMPP * Computers with Internet connection to download the system * Any browser * Online Meeting |
| **Methods** | There are two methods to test the PHP CRUD Generator which are:  1.First method  Each participant uses his/her own computer/laptop to test the PHP CRUD Generator anytime anywhere.  2.Second method  Each participant invites to the online meeting through the link given and controls the keyboard and mouse from the share screen from the developer. |
| **Sequence of Activities** | 1.First method  1) The participants sit individually with a computer/laptop connected to the Internet.  2) The participants read the purpose and procedure.  3) The participants read the information sheet and sign the consent form.  4) The participants download the system through the link given and save the folder in htdocs (xampp).  5) The participants interact with the system.  6)The participants answer the post-task questionnaire.  2.Second method  1) The participants sit individually with a computer/laptop connected to the Internet.  2) The participants invite online meeting through the link given.  3) The self-introduction about the developer and the project.  4) The developer shares share screen of the tester’s laptop with the participants.  5) The developer appoints each participant to control the keyboard and cursor of the screen.  6) The participants interact with the system.  7) The developer shares the link of evaluation form to the participants.  8) The online meeting ended by the developer.  9)The participants answer the post-task questionnaire. |

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| **POST-TASK QUESTIONNAIRE** |
| Thank you for participating in this study. The purpose of the questionnaire is to collect opinions from the participants on the interface, performance and usability of the PHP CRUD Generator based on CRUD functions.  ***All of the answers you provide in this questionnaire will be kept confidential. The data will not identify any individual person and will be reported as a group.***  **Participant No: \_\_\_\_\_\_\_\_\_\_\_**  **Section A: Demography and Background Information**  *Please tick 🗹 on the relevant block or write down your response on the space provided.*  A.1 Gender : ❒Male ❒Female  A.2 Age Group: ❒16-20 ❒21-25 ❒26-35 ❒over 36  A.3 Have you heard about CRUD functions (create, retrieve, update and delete)?  ❒Yes ❒No ❒Not Sure  A.4 Have you ever use any system with CRUD functions?  ❒Yes ❒No ❒Not Sure  **Section B: PHP CRUD Generator**  *After executing each task, please rate your agreement with the following statements based on scale:*   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Strongly disagree | Disagree | Neutral | Agree | Strongly Agree | | 1 | 2 | 3 | 4 | 5 |  |  |  | Strongly disagree | Disagree | Neutral | Agree | Strongly Agree | | --- | --- | --- | --- | --- | --- | --- | | Please answer the questions based on the above tasks: | |  |  |  |  |  | | Overall, I am satisfied with the ease of completing this task | | 1 | 2 | 3 | 4 | 5 | | Overall, I am satisfied with the amount of time it took to complete this task. | | 1 | 2 | 3 | 4 | 5 | | Usefulness of PHP CRUD Generator | |  |  |  |  |  | | B.1 | PHP CRUD Generator enhances my effectiveness on accessing the system | 1 | 2 | 3 | 4 | 5 | | B.2 | PHP CRUD Generator increases my productivity. | 1 | 2 | 3 | 4 | 5 | | B.3 | PHP CRUD Generator makes it easier to create new system. | 1 | 2 | 3 | 4 | 5 | | B.4 | PHP CRUD Generator gives me greater control over my work. | 1 | 2 | 3 | 4 | 5 | | B.5 | PHP CRUD Generator enables me to accomplish tasks more quickly. | 1 | 2 | 3 | 4 | 5 | | B.6 | PHP CRUD Generator saves me time when I use it. | 1 | 2 | 3 | 4 | 5 | | B.7 | PHP CRUD Generator meets my needs. | 1 | 2 | 3 | 4 | 5 | | B.8 | PHP CRUD Generator does everything I would expect it to do. | 1 | 2 | 3 | 4 | 5 | | B.9 | PHP CRUD Generator is useful in overall. | 1 | 2 | 3 | 4 | 5 | |  | Ease of Use of PHP CRUD Generator |  |  |  |  |  | | B.10 | PHP CRUD Generator is easy to use. | 1 | 2 | 3 | 4 | 5 | | B.11 | PHP CRUD Generator is user friendly | 1 | 2 | 3 | 4 | 5 | | B.12 | PHP CRUD Generator is flexible. | 1 | 2 | 3 | 4 | 5 | | B.13 | PHP CRUD Generator required fewer steps to accomplish what I want to do with the system. | 1 | 2 | 3 | 4 | 5 | | B.14 | PHP CRUD Generator is easy to learn how to use it. | 1 | 2 | 3 | 4 | 5 | | B.15 | I can use PHP CRUD Generator without written instructions. | 1 | 2 | 3 | 4 | 5 | | B.16 | I can easily remember how to use it. | 1 | 2 | 3 | 4 | 5 | | B.17 | I don't notice any inconsistencies as I use PHP CRUD Generator. | 1 | 2 | 3 | 4 | 5 | | B.18 | I can recover from mistakes quickly and easily when using PHP CRUD Generator. | 1 | 2 | 3 | 4 | 5 | | B.19 | I can use PHP CRUD Generator successfully every time. | 1 | 2 | 3 | 4 | 5 | |  | Navigation and Hyperlinks of PHP CRUD Generator |  |  |  |  |  | | B.20 | The homepage clearly directs me towards the information I need. | 1 | 2 | 3 | 4 | 5 | | B.21 | PHP CRUD Generator provides useful cues and links for me to get the desired information. | 1 | 2 | 3 | 4 | 5 | | B.22 | It is easy to move around at PHP CRUD Generator by using the links or back button of the browser. | 1 | 2 | 3 | 4 | 5 | | B.23 | PHP CRUD Generator does not open too many new browser windows when I am moving around. | 1 | 2 | 3 | 4 | 5 | |  | Satisfaction of PHP CRUG Generator |  |  |  |  |  | | B.24 | I am satisfied with PHP CRUD Generator. | 1 | 2 | 3 | 4 | 5 | | B.25 | I would recommend PHP CRUD Generator to my friend. | 1 | 2 | 3 | 4 | 5 | | B.26 | PHP CRUD Generator works the way I want it to work. | 1 | 2 | 3 | 4 | 5 | | B.27 | I feel I need to have PHP CRUD Generator. | 1 | 2 | 3 | 4 | 5 | | B.28 | PHP CRUD Generator is wonderful and pleasant to use. | 1 | 2 | 3 | 4 | 5 | |

**END OF THE EVALUATION STUDY. THANK YOU.**