

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | YEAR/ Month : | 2021/07 |

**APPLICATION FOR ETHICAL APPROVAL OF RESEARCH/PROJECT PROPOSAL**

|  |  |  |
| --- | --- | --- |
| **Details of Application** | | |
| Type | **:** | FYP project |
| Department | **:** | DCSE |
| Research/Project start date (DD/MM/YY) | **:** | 21/06/21 |
| Research/Project end date (DD/MM/YY) | **:** | 28/03/22 |
| Funding source and funding amount (If applicable) | **:** | Not Applicable |

**Details of Student(s)**

|  |  |  |
| --- | --- | --- |
|  | **Student** | **Student** |
| Name | Phang Wai Hong | Tang Xiao Zu |
| I.C. No./Passport No. | 991002086195 | 990822075331 |
| Student ID | 19WMR11261 | 19WMR11402 |
| Programme of Study | Bachelor of Computer Science (Honours) in Software Engineering | Bachelor of Computer Science (Honours) in Software Engineering |
| Year of Study | Oct 2019 | Oct 2019 |
| E-mail | phangwh-wm19@student.tarc.edu.my | tangxz-wm19@student.tarc.edu.my |
| Mobile Phone No. | 0165930959 | 0124313326 |

**Details of Proposed Research/Project**

|  |
| --- |
| **Title of the Proposed Research/Project**  **Tuition Center Application (Web Application System)** |
| **Abstract of the Proposed Research/Project**  In this modern world which prioritizes work done with good efficiency and fast speed, a good computerized management system is needed for education centers. Existing system in today’s education center has been reviewed and analysed in order to discover that it is very unsystematic and unorganized, which is the way the existing system handles problems such as data collecting and data processing. The user of this system is the person that handles management works which are the staff and top management of the tuition center. The development of this system helps to keep huge data in an organized way, secured and it may reduce a lot of uses of paper. There are a few modules to be done in order to complete this system. All the tasks stated are managed by using the database application method. The use of databases helps to produce a more structured system data. This system is designed using a client-server environment and is used by web based applications that require an internet browser to operate. This newly developed tuition center system has fulfilled the needs of a smaller sized center which provides fully computerized features which will improve the working performance by handling complicated jobs in a more simple way compared to the old existing system. A few phases needed to be applied during the system development cycle including System Planning, Requirement Analysis, System Design, Programming and Software Testing. |
| **Methods to be Used in the Proposed Research/Project**  Data collection done manually has been slower than other practices in manufacturing to reach the coming of age of new technology such as online data storing. As the use of web-based systems has become popular in recent years, we are here to propose a web-based system for DJ Tuition Center. Web-based systems represent the excellent example of managing data online in order to get better achievement for the working process. The system proposed is gonna let the staff and top management manage the data of the tuition center such as student’s personal information, their educational marks, their transactional payment history and others using this web-based system. According to the U.S. Census Bureau, when automated data collection is in place, data quality improves in a few dimensions such as accuracy, accessibility, and saves time (U.S. Census Bureau, Jul 2013). For accuracy, it is said that the data collected from the students is very precise and reliable. As for accessibility, the staff and top management can obtain and update the student information anywhere as long as there is internet access. It also saves time when it comes to tracing student’s data because all data is being stored in the system and with just a few clicks, the student’s data can be obtained easily. |

**Research Ethics Checklist**

|  |  |  |
| --- | --- | --- |
|  | | |
| Please answer each question by ticking the appropriate box:  **(Please provide more details (measures taken to address concerns, etc) in separate sheets when the answer is “Yes” )** | | |
|  | **Yes** | **No** |
| Will the study involve recruitment of human subjects (internal and/or external parties) such as patients or staff through the Kementerian Kesihatan Malaysia (KKM) or the use of KKM data or premises and/or equipment? |  | / |
| Will the study involve experimentation of animals? |  | / |
| Does the study involve individuals below the age of 18 or those over aged but who are unable to give informed consent?  (e.g. people with learning disabilities, mental disabilities etc.) |  | / |
| Does the research involve potentially vulnerable groups: children, those with cognitive impairment etc? |  | / |
| Will it be necessary for participants to take part in the study without their knowledge and consent at the time? (e.g. covert observation of people in non- public places) |  | / |
| Will the study involve discussion of sensitive topics? |  | / |
| Are drugs, placebos or other substances (e.g. food substances, vitamins) to be administered to the study participants, or will the study involve invasive, intrusive or potentially harmful procedures of any kind? |  | / |
| Will tissue samples (including blood) be obtained from participants? |  | / |
| Is pain or more than mild discomfort likely to result from the study? |  | / |
| Could the study induce psychological stress, discomfort, anxiety or cause harm or negative consequences beyond the risks encountered in normal life? |  | / |
| Will the study involve prolonged or repetitive testing? |  | / |
| Will the research involve administrative or secure data that requires permission from the appropriate authorities before use? |  | / |
| Is there a possibility that the safety of the researcher/research assistant may be in question? |  | / |
| Does the research involve members of the public in a research capacity (participant research)? |  | / |
| Will the research take place outside TAR UC? | / |  |
| Will the research take place outside Malaysia? |  | / |
| Will the research involve respondents to the internet or other visual/vocal methods where respondents may be identified? |  | / |
| Will research involve the sharing of data or confidential information beyond the initial consent given? |  | / |
| Will financial honorarium be offered to participants? |  | / |
| For the relevant study, informed consent is attached with the current submission |  | / |
| For the relevant study, questionnaire to be used for data collection is attached with the current submission | / |  |
| The study involves usage of open-source software | / |  |
| The study involves usage of open datasets |  | / |
| The study involves usage of materials under copyright protection |  | / |
| The study involves usage of genetic modification methods |  | / |
| The study involves usage of biological hazardous materials (referring to living modified material for contained use activities) |  | / |
| Research that may need to be reviewed by TARUC Animal Ethics Committee and Research Ethics Committee (involve human subjects) or another external Ethics Committee *(if yes, please fill in the relevant form as attachment)* |  | / |
| The study involves usage of personal data | / |  |
| The study involves usage of confidential data |  | / |

*It is a researcher’s responsibility to follow the research organisation’s code of practice on ethical standards, and any relevant academic or professional guidelines in the conduct of their study. This includes providing appropriate information sheets and consent forms, and ensuring confidentiality in the storage and use of data.*

*Any significant change in the question, design or conduct over the course of the research should be notified to the faculty and may require a new application for ethics approval.*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Declaration** | | | | | | | | | | |
| *I have read and understood, and agree to abide by TAR UC Guidelines on Research and Development and Code of Ethics for Research as decided by the University College Ethics Committee. I confirm that the information I have provided herein is complete and accurate.* | | | | | | | | | | |
|  | *Signature* | |  | |  | Date : | | 07/09/2021 | |  |
|  | Name of Applicant : | Phang Wai Hong |  |  | | |  | |  |  |
|  |  | |  | |  | |  | |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Declaration** | | | | | | | | | | |
| *I have read and understood, and agree to abide by TAR UC Guidelines on Research and Development and Code of Ethics for Research as decided by the University College Ethics Committee. I confirm that the information I have provided herein is complete and accurate.* | | | | | | | | | | |
|  | *Signature* | |  | |  | Date : | | 07/09/2021 | |  |
|  | Name of Applicant : | Tang Xiao Zu |  |  | | |  | |  |  |
|  |  | |  | |  | |  | |  |  |