

| A. Project Information | |
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| Full Name | Damien Tan Lek Khee |
| Supervisor | Kavitha Thamadharan |
| Module Code | 6000CEM |
| Project Title | Groomify – Pet Grooming Booking App |
| Project Dates | - |
| Date Created | 9/6/2023 |
| Project Summary | <p>The goal of this project is to create the "Groomify" mobile application, which will serve pet owners' needs by providing a comprehensive platform for scheduling and managing pet grooming services. Groomify aims to offer pet owners a simple and effective way to get in touch with local, qualified pet groomers.</p> <p>The project will be organised according to the Waterfall model, with phases like requirement collecting, design, programming, testing, and deployment. To ensure compatibility with both Android and iOS devices, the development team will use the Flutter framework and the Dart programming language to build a cross-platform mobile application.</p> <p>Firebase will be used to store data obtained from the app as it offers scalable and real-time data synchronization capabilities. It will be handling functionalities such as user details, authentication and data storage.</p> <p>Figma will be used to design and develop an user interface for the app, Groomify. Hence, ensuring that an intuitive and visually appealing user interface, enhancing the user engagement and experience.</p> <p>The importance of ethical issues will be highlighted</p> |

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| | <p>throughout the endeavour. With methods including data encryption, secure authentication, and respect to data protection laws, the protection of user data and privacy will be given priority. Before gathering any personal data, Groomify will seek the user's permission and maintain openness in how user data is used.</p> <p>In addition, Groomify will be created with an accessibility focus in order to offer all users a welcoming experience. In order to make sure that the application is useable by people with a range of abilities and requirements, user feedback and testing will be incorporated to identify and address any accessibility barriers.</p> |
| B. Project Details | |
| 1. What is the purpose of the project? | <p>To create a mobile app that allows users to schedule appointments with pet groomers. To recommend pet grooming services to users which would assist pet owners to make informed decisions before booking a specific pet grooming services from a pet groomer. The mobile app attempts to improve user experience and engagement by providing a clean user interface and an accurate recommendation system.</p> |
| 2. What are the planned or desired outcomes? | <p>The mobile app is able to enhance user experience with the provided user-friendly interface. It must also perform various tasks that is stated in the objectives. (e.g. Schedule appointments, rating and comment system.)</p> |

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| <p>3. Explain your research design</p> | <p>The project will be approach with waterfall model method, provides a structured and sequential approach to project management. The requirements collecting, design, programming, testing, and deployment phases of the project are all accomplished using the Waterfall methodology before moving on to the next phase. This enables a structured and well-documented development process, ensuring clarity and lowering the possibility of misunderstandings. Groomify uses cutting-edge technology, including frameworks and tools like Flutter and Dart for cross-platform development, Figma for UI/UX design, Firebase for backend services, and Android OS for interoperability with mobile platforms. The integration of necessary features like appointment scheduling and notification reminders is made possible by these technologies, which also enable effective development and a seamless user experience.</p> |
| <p>4. Outline the principal methods you will use</p> | <p>The primary methods for this project involve conducting a thorough literature search to gather vital information on the technologies and existing pet grooming booking apps. The development process is aided by the waterfall methodology and the use of tools like Flutter, Dart, Firebase, and Figma. A complete report on the technique and results achieved will be provided in the project documentation as a whole. Thorough testing, as well as a critical evaluation of various techniques, frameworks, databases, and development environments, will be done to assure functionality and stability. The project's objective is to create a pet grooming booking software that makes use of these techniques to improve user engagement and</p> |

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| | experience. |
| B. Project Details Continue | Yes/No |
| 5. Are you proposing to use an external research instrument, validated scale or research method? (e.g. a measurement scale, questionnaire, interview schedule, observation protocol for ethnographic work or in the case of unstructured data collection, or a topic list?) | No |
| 6. Will your research involve consulting individuals who support, or concern sensitive or extremism related material, including terrorism, armed struggles, or political religious or other forms of activism considered illegal under Malaysia law? | No |
| 7. Are you dealing with Secondary Data (e.g. sourcing info from websites, historical documents) | Yes |
| 8. Are you dealing with Primary Data involving people? (e.g. interviews, questionnaires, observations) | No |
| 9. Are you dealing with Personal or Sensitive data? | Yes |
| 10. Will the Personal or Sensitive data be shared with a third party? | No |
| 11. Will the Personal or Sensitive data be shared outside of Malaysia? | No |
| 12. Are there any other ethical issues or risks of harm raised by the study that have not been covered by previous questions? | No |
| C. DBS (Disclosure & Barring Service) formerly CRB (Criminal Records Bureau) | Yes/No |

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| 1. Does the study require DBS (Disclosure & Barring Service) checks? (i.e. is a check required or been stipulated, to access any source of data required for the study? – if unsure, please check here) | Yes |
| 2. Does the study involve direct contact by any member of the research team: | No |
| a) With children or young people under 18 years of age? | |
| b) With adults who have learning difficulties, brain injury, dementia, degenerative neurological disorders? | No |
| c) With adults who are frail or physically disabled? | No |
| d) With adults who are living in residential care, social care, nursing homes, re-ablement centres, hospitals or hospices? | No |
| e) With adults who are in prison, remanded on bail or in custody? | No |
| D. External Ethical Review | Yes/No |
| 1. Will this study be submitted for ethical review to an external organisation? (e.g. Another University, Social Care, National Health Service, Ministry of Defence, Police Service and Probation Office) | No |
| E. Confidentiality, Security and Retention of Research Data | Yes/No |
| 1. Are there any reasons why you cannot guarantee the full security and confidentiality of any personal or confidential data collected for the study? | No |
| 2. Is there a significant possibility that any of your participants, and associated persons, could be directly or indirectly identified in the outputs or findings from this study? | No |

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| 3. Is there a significant possibility that a specific organisation or agency or participants could have confidential identified, as a result of the way you write up the results of the study? | No |
| 4. Will any members of the research team retain any personal or confidential data at the end of the project, other than in fully anonymised form? | No |
| 5. Will you or any member of the team intend to make use of any confidential information, knowledge, trade secrets obtained for any other purpose than the research project? | No |
| 6. Will you be responsible for destroying the data after study completion? | Yes |
| F. Participant Information and Informed Consent | Yes/No |
| 1. Will all the participants be fully informed BEFORE the project begins why the study is being conducted and what their participation will involve? | Yes |
| 2. Will every participant be asked to give written consent to participating in the study before it begins? | Yes |
| 3. Will all participants be fully informed about what data will be collected, and what will be done with this data during and after the study? (Consider: who retains it, where and for how long) | Yes |
| 4. Will there be an audio, video or photographic recording of participants? | No |
| 5. Will every participant understand that they have the right not to take part at any time, and/or withdraw themselves and their data from the study if they wish? | Yes |
| 6. Will every participant understand that there will be no reasons required or | Yes |

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| repercussions if they withdraw or remove their data from the study? | |
| G. Confidentiality, Security and Retention of Research Data | Yes/No |
| 1. Does the study involve deceiving, or covert observation of participants? | No |
| H. Risk of Harm, Potential Harm and Disclosure of Harm | Yes/No |
| 1. Is there any significant risk that the study may lead to physical harm to participants or researchers? | No |
| 2. Is there any significant risk that the study may lead to psychological or emotional distress to participants? | No |
| 3. Is there any risk that the study may lead to psychological or emotional distress to researchers? | No |
| 4. Is there any risk that your study may lead or result in harm to the reputation of participants, researchers, or their employees, or any associated persons or organisations? | No |
| 5. Is there a risk that the study will lead to participants to disclose evidence of previous criminal offences, or their intention to commit criminal offences? | No |
| 6. Is there a risk that the study will lead participants to disclose evidence that children or vulnerable adults are being harmed, or at risk of harm? | No |
| 7. Is there a risk that the study will lead participants to disclose evidence of serious risk of other types of harm? | No |
| 8. Are you aware of the INTI Disclosure protocol? | Yes |
| I. Payments to Participants | Yes/No |
| 1. Do you intend to offer participants cash payments or any kind of inducements, or reward for taking part in your study? | No |
| J. Capacity to Give Valid Consent | Yes/No |
| 1. Do you propose to recruit any participants who are: | |
| a) Children or young people under 18 years of age? | No |

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| b) Adults who have learning difficulties, mental health condition, brain injury, advanced dementia, degenerative neurological disorders? | No |
| c) Adults who are physically disabled? | No |
| d) Adults who are living in residential care, social care, nursing homes, reablement centres, hospitals or hospices? | No |
| e) Adults who are in prison, remanded on bail or in custody? | No |
| 2. Do you propose to recruit any participants with possible communication difficulties, including difficulties arising from limited use of knowledge of the English language? | No |
| 3. Do you propose to recruit any participants who may not be able to understand fully the nature of the study, research and the implications for them of participating in it or cannot provide consent themselves? | No |
| K. Recruiting Participants | Yes/No |
| 1. Do you propose to recruit any participants who are: | No |
| L. Capacity to Give Valid Consent | Yes/No |
| a) Students or employees of INTI Penang or partnering organisation(s)? | No |
| b) Employees/staff recruited through other businesses, voluntary or public sector organisations? | No |
| c) Pupils or student recruited through educational institutions (e.g. primary schools, secondary schools, colleges)? | No |
| d) Clients/volunteers/service users recruited through voluntary public services? | No |
| e) Participants living in residential care, social care, nursing homes, reablement centres hospitals or hospices? | No |
| f) Recruited by virtue of their employment in the police or armed force? | No |
| g) Adults who are in prison, remanded on bail or in custody? | No |
| h) Who may not be able to refuse to participate in the research? | No |
| M. Online and Internet Research | Yes/No |

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| 1. Will any part of your study involve collecting data by means of electronic media (e.g. the internet, e-mail, Facebook, Twitter, online forums, etc)? | Yes |
| 2. Is there a possibility that the study will encourage children under 18 to access inappropriate websites, or correspond with people who pose risk of harm? | No |
| 3. Will the study incur any other risks that arise specifically from the use of electronic media? | No |
| 4. Will you be using survey collection software (e.g. BoS, Filemaker)? | No |
| 5. Have you taken necessary precautions for secure data management, in accordance with data protection and INTI Policy? | Yes |
| N. Languages | Yes/No |
| 1. Are all or some of the consent forms, information leaflets and research instruments associated with this project likely to be used in languages other than English? | No |
| O. Laboratory/Workshops | Yes/No |
| 1. Does any part of the project involve work in a laboratory or workshop which could pose risks to you, researchers or others? | No |
| P. Research with Non-Human Vertebrates | Yes/No |
| 1. Will any part of the project involve animal habitats or tissues or non-human vertebrates? | No |
| Q. Blood Sampling / Human Tissue Analysis | Yes/No |
| 1. Does your study involve collecting or use of human tissues or fluids? (e.g. collecting urine, saliva, blood or use of cell lines, 'dead' blood) | No |
| R. Travel | Yes/No |
| 1. Does any part of the project require data collection off campus? (e.g. work in the field or community) | Yes |
| S. Attachments | |
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