#### DESCRIPTION OF PRODUCT REQUIREMENTS

Group: C1SE.37

Project: Oline Clinic Booking System

Date: 24/07/2021

**I. Short description of product ideas**

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| The application serves people who have a need for medical examination but have none or little free time during office hours, in addition to those with limited mobility such as the elderly or people in remote places.    The application will require the user to login in order to use it. The application's features are appointment booking, allowing offline or online examination based on the doctor's prescription, including online payment service via e-wallet, the application also has the ability to measure heart rate by serving a camera. Online medical examination as well as self-monitoring of users' health. |

**II. Requirements**

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| **High-level Functional Requirements** | 1. Create Clinic |
| 2. Book Clinic |
| 3. Schedule management |
| 4. Choose the form of examination: online or offline |
| 5. Patient management |
| 6. Measure heart rate |
| 7. Online Paying: e-wallet |
| 8. Medical history |
| 9. Vote and rating |

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| **Quality Attributes Requirements** | 1. Easy to Use |
| 2. Nice interface |
| 3. Convenient for user |
| 4. No errors occur during the use |

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| **Operation Requirements** | 1. Safety for health |
| 2. Accuracy of clinic room condition over time |

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| **Environment & Operation Requirements** | 1. Opera system: Android |
| 2. Connecting to the Internet: Wi-Fi, 3G, 4G,… |
| 3. Minimum 2 GB RAM |
| 4. The phone must have enough microphone and camera |
| 5. Operators must be trained |

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| **Requirements for Maintenance & Support** | 1. Short and fast maintenance time |
| 2. Monthly error check |
| 3. Support new version development |
| 4. With 95% performance |

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| **Security/ Safety Requirements** | 1. Log in to use |
| 2. User information is kept safe |
| 2.No collect personal information illegally |

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| **Culture Requirements** | 1. Respect the culture of the region |
| 2. Promote healthcare habits |

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| **Evaluate the complexity of engineering problems** | ✓ | 1. Involving wide-ranging or conflicting technical issues |
|  | 2. Having no obvious solution |
|  | 3. Addressing problems not encompassed by current standards and codes |
|  | 4. Involving diverse groups of stakeholders |
| ✓ | 5. Including many component parts or sub-problems |
| ✓ | 6. Involving multiple disciplines |
|  | 7. Having significant consequences in a range of contexts |

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| **Standard requirements** | ✓ | 1. Code standard. (GNU, Oracle standard for Java, ..,) |
| ✓ | 2. Design standard. (design patterns, object-oriented analysis, and design,…). |
|  | 3. IEEE (1058, 1540, 830, 1016, 829, 1012, 1008) |
| ✓ | 4. ISO/IEC/IEEE 12207:2017 (TCVN 10539:2014); ISO/IEC 25051:2006(TCVN 10540:2014); |
| ✓ | 5. NCPDP HIPAA |