**SMART PRESCRIPTION APPLICATION**

Traceability Record

By

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Project Advisor

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**Document History**

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| **Documents** | | | | | | | | | | | | | | |
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*Acronym*

NAT = NatthakanKaeokanpai PHI = PhithiwatSitthitun PROM = PrompongSugunnasil

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**Chapter One | Introduction**

**1.1 Purpose**

**Traceability** is the ability to verify the history, location, or application of an item by means of documented recorded identification. Other common definitions include the capability (and implementation) of keeping track of a given set or type of information to a given degree, or the ability to chronologically interrelate uniquely identifiable entities in a way that is verifiable

**1.2 Project Scope**

Smart prescription application can create the prescription of the patient in form of QR code that creates by a doctor. Smart prescription application requires a mobile application for scan QR code by the pharmacist. Pharmacist can get the prescription of patient with the detail of drug on a mobile application.

Smart prescription application can also record the history of allergy drug of patient and report to the Food and Drug Administration, Ministry of Public Health organization or (FDA) for observing unusually allergy drug that has been found in Thailand.

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**Chapter Two | Traceability Record Matrix**

*User Requirement Specification - System Requirement Specification (URS-SRS)*

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| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| URS SRS | 109 | 110 | 111 | 112 | 113 |
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| **Document**  **Name** | SMART-PRESCRIPTION-  APPLICATION-[Traceability- Record\_V3.0] | **Owner** | Natthakan Kaeokanpai,  Phithiwat Sitthitun | **Page** | 9 |
| **Document Type** | Traceability Record | **Release**  **Date** | August 26th, 2016 | **Print Date** | December 9th, 2016 |

*User Requirement Specification - Use Case (URS-UC)*

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| URS  UC | 01 | 02 | 0  3 | 0  4 | 0  5 | 0  6 | 0  7 | 0  8 | 0  9 | 1  0 | 1  1 | 1  2 | 1  3 | 1  4 | 1  5 | 1  6 | 1  7 | 1  8 | 1  9 | 2  0 | 2  1 | 2  2 | 2  3 | 2  4 | 2  5 | 2  6 | 2  7 | 2  8 | 2  9 | 3  0 |
| 01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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*2.3 Use Case Diagram - System Requirement Specification (UCD-SRS)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| UC  D SR  S | 00  1 | 00  2 | 00  3 | 00  4 | 00  5 | 00  6 | 00  7 | 00  8 | 00  9 | 01  0 | 01  1 | 01  2 | 01  3 | 01  4 | 01  5 | 01  6 | 01  7 | 01  8 | 01  9 | 02  0 | 02  1 | 02  2 | 02  3 | 02  4 | 02  5 | 02  6 | 02  7 | 02  8 | 02  9 | 03  0 | 03  1 |
| 01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UC  D SRS | 03  2 | 03  3 | 03  4 | 03  5 | 03  6 | 03  7 | 03  8 | 03  9 | 04  0 | 04  1 | 04  2 | 04  3 | 04  4 | 04  5 | 04  6 | 04  7 | 04  8 | 04  9 | 05  0 | 05  1 | 05  2 | 05  3 | 05  4 | 05  5 | 05  6 | 05  7 | 05  8 | 05  9 | 06  0 | 06  1 | 06  2 |
| 01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| UC  D SRS | 06  3 | 06  4 | 06  5 | 06  6 | 06  7 | 06  8 | 06  9 | 07  0 | 07  1 | 07  2 | 07  3 | 07  4 | 07  5 | 07  6 | 07  7 | 07  8 | 07  9 | 08  0 | 08  1 | 08  2 | 08  3 | 08  4 | 08  5 | 08  6 | 08  7 | 08  8 | 08  9 | 09  0 | 09  1 | 09  2 | 09  3 |
| 01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| UCD SRS | 094 | 095 | 096 | 097 | 098 | 099 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 |
| 01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Document Type** | Traceability Record | **Release**  **Date** | August 26th, 2016 | **Print Date** | December 9th, 2016 |

*2.4 Activity Diagram - System Requirement Specification (AD-SRS)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AD SRS | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | 026 | 027 | 028 |
| 01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| AD SRS | 02  9 | 03  0 | 03  1 | 03  2 | 03  3 | 03  4 | 03  5 | 03  6 | 03  7 | 03  8 | 03  9 | 04  0 | 04  1 | 04  2 | 04  3 | 04  4 | 04  5 | 04  6 | 04  7 | 04  8 | 04  9 | 05  0 | 05  1 | 05  2 | 05  3 | 05  4 |
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| AD SRS | 05  5 | 05  6 | 05  7 | 05  8 | 05  9 | 06  0 | 06  1 | 06  2 | 06  3 | 06  4 | 06  5 | 06  6 | 06  7 | 06  8 | 06  9 | 07  0 | 07  1 | 07  2 | 07  3 | 07  4 | 07  5 | 07  6 | 07  7 | 07  8 | 07  9 | 08  0 | 08  1 | 08  2 |
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| AD SRS | 08  3 | 08  4 | 08  5 | 08  6 | 08  7 | 08  8 | 08  9 | 09  0 | 09  1 | 09  2 | 09  3 | 09  4 | 09  5 | 09  6 | 09  7 | 09  8 | 09  9 | 10  0 | 10  1 | 10  2 | 10  3 | 10  4 | 10  5 | 10  6 | 10  7 | 10  8 |
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| **Document**  **Name** | SMART-PRESCRIPTION-  APPLICATION-[Traceability- Record\_V3.0] | **Owner** | Natthakan Kaeokanpai,  Phithiwat Sitthitun | **Page** | 17 |

*2.5 User Requirement Specification - Activity Diagram (URS-AD)*

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| URS AD | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Document Type** | Traceability Record | **Release**  **Date** | August 26th, 2016 | **Print Date** | December 9th, 2016 |

*2.6 User Requirement Specification - Sequence Diagram (URS-SD)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| URS SD | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Document Type** | Traceability Record | **Release**  **Date** | August 26th, 2016 | **Print Date** | December 9th, 2016 |

*2.7 Sequence Diagram - System Requirement Specification (SD-SRS)*

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| SD  SR S | 00  1 | 00  2 | 00  3 | 00  4 | 00  5 | 00  6 | 00  7 | 00  8 | 00  9 | 01  0 | 01  1 | 01  2 | 01  3 | 01  4 | 01  5 | 01  6 | 01  7 | 01  8 | 01  9 | 02  0 | 02  1 | 02  2 | 02  3 | 02  4 | 02  5 | 02  6 | 02  7 | 02  8 |
| 01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Document**  **Name** | SMART-PRESCRIPTION-  APPLICATION-[Traceability- Record\_V3.0] | **Owner** | Natthakan Kaeokanpai,  Phithiwat Sitthitun | **Page** | 20 |
| **Document Type** | Traceability Record | **Release**  **Date** | August 26th, 2016 | **Print Date** | December 9th, 2016 |

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| SD SRS | 02  9 | 03  0 | 03  1 | 03  2 | 03  3 | 03  4 | 03  5 | 03  6 | 03  7 | 03  8 | 03  9 | 04  0 | 04  1 | 04  2 | 04  3 | 04  4 | 04  5 | 04  6 | 04  7 | 04  8 | 04  9 | 05  0 | 05  1 | 05  2 | 05  3 | 05  4 |
| 01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Document Type** | Traceability Record | **Release**  **Date** | August 26th, 2016 | **Print Date** | December 9th, 2016 |

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| SD SRS | 05  5 | 05  6 | 05  7 | 05  8 | 05  9 | 06  0 | 06  1 | 06  2 | 06  3 | 06  4 | 06  5 | 06  6 | 06  7 | 06  8 | 06  9 | 07  0 | 07  1 | 07  2 | 07  3 | 07  4 | 07  5 | 07  6 | 07  7 | 07  8 | 07  9 | 08  0 | 08  1 | 08  2 |
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| SD SRS | 08  3 | 08  4 | 08  5 | 08  6 | 08  7 | 08  8 | 08  9 | 09  0 | 09  1 | 09  2 | 09  3 | 09  4 | 09  5 | 09  6 | 09  7 | 09  8 | 09  9 | 10  0 | 10  1 | 10  2 | 10  3 | 10  4 | 10  5 | 10  6 | 10  7 | 10  8 |
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| **Document Type** | Traceability Record | **Release**  **Date** | August 26th, 2016 | **Print Date** | December 9th, 2016 |

*2.8 User Requirement Specification - Unit Test Case (URS-UTC)*

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| URS UTC | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
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| **Document Type** | Traceability Record | **Release**  **Date** | August 26th, 2016 | **Print Date** | December 9th, 2016 |

*2.9 System Test Case - System Requirement Specification (STC-SRS)*

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| STC SRS | 00  1 | 00  2 | 00  3 | 00  4 | 00  5 | 00  6 | 00  7 | 00  8 | 00  9 | 01  0 | 01  1 | 01  2 | 01  3 | 01  4 | 01  5 | 01  6 | 01  7 | 01  8 | 01  9 | 02  0 | 02  1 | 02  2 | 02  3 | 02  4 | 02  5 | 02  6 | 02  7 | 02  8 |
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| **Document**  **Name** | SMART-PRESCRIPTION-  APPLICATION-[Traceability- Record\_V3.0] | **Owner** | Natthakan Kaeokanpai,  Phithiwat Sitthitun | **Page** | 26 |
| **Document Type** | Traceability Record | **Release**  **Date** | August 26th, 2016 | **Print Date** | December 9th, 2016 |

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| STC SRS | 02  9 | 03  0 | 03  1 | 03  2 | 03  3 | 03  4 | 03  5 | 03  6 | 03  7 | 03  8 | 03  9 | 04  0 | 04  1 | 04  2 | 04  3 | 04  4 | 04  5 | 04  6 | 04  7 | 04  8 | 04  9 | 05  0 | 05  1 | 05  2 | 05  3 | 05  4 |
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| STC SRS | 05  5 | 05  6 | 05  7 | 05  8 | 05  9 | 06  0 | 06  1 | 06  2 | 06  3 | 06  4 | 06  5 | 06  6 | 06  7 | 06  8 | 06  9 | 07  0 | 07  1 | 07  2 | 07  3 | 07  4 | 07  5 | 07  6 | 07  7 | 07  8 | 07  9 | 08  0 | 08  1 | 08  2 |
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| STC SRS | 08  3 | 08  4 | 08  5 | 08  6 | 08  7 | 08  8 | 08  9 | 09  0 | 09  1 | 09  2 | 09  3 | 09  4 | 09  5 | 09  6 | 09  7 | 09  8 | 09  9 | 10  0 | 10  1 | 10  2 | 10  3 | 10  4 | 10  5 | 10  6 | 10  7 | 10  8 |
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*2.10 User Requirement Specification - User Interface (URS-UI)*

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*2.11 Class - Unit Test Case (Class-UTC)*

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**Chapter Tree | Appendix**

**User Requirement Specification (URS)**

URS-01: Doctors can view a doctor home page on the web application.

URS-02: Doctors can create a patient’s profile on the web application by inputting personal id, name, surname, prescription and username.

URS-03: Doctors can update a patient’s profile on the web application by application by input personal id, name, surname, prescription and username.

URS-04: Doctors can delete a patient’s profile on the web application.

URS-05: Doctors can search patient’s profiles on the web application by using personal id, name, and surname.

URS-06: Doctors can view a patient’s profile on the web application.

URS-07: Doctors can view list of patient’s profiles on the web application.

URS-08: Administrators can view an admin home page on the web application.

URS-09: Administrators can create a user’s profile on the web application by inputting name, surname, username, password, confirm-password and position.

URS-10: Administrators can update a user’s profile on the web application by inputting name, surname, username, password, confirm-password and position.

URS-11: Administrators can delete a user’s profile on the web application.

URS-12: Administrators can search a user’s profile on the web application by using name, surname, and username.

URS-13: Administrators can view a user’s profile on the web application.

URS-14: Administrators can view list of user’s profile on the web application.

URS-15: Doctors, Administrations, and FDAs can login to the web application by using username and password.

URS-16: Doctors, Administrations, and FDAs can logout from the web application.

URS-17: Patients can login to the mobile application by using username and password. URS-18: Patients can logout from the mobile application.

URS-19: Patients can view the QR code on the mobile application. URS-20: Pharmacists can scan the QR code on the mobile application.

URS-21: Pharmacists can add the time of dispensation to the patient’s profile on the mobile

application.

URS-01: Doctors can view a doctor home page on the web application.

URS-22: Doctors can create an allergy report on the web application by inputting personal id, name, surname, and allergy drug.

URS-23: Doctors can update an allergy report on the web application by inputting personal id, name,

surname, and allergy drug.

URS-24: Doctors can delete an allergy report on the web application.

URS-25: Doctors can search an allergy report on the web application by using personal id, name, and surname.

URS-26: Doctors can view an allergy drug report on the web application.

URS-27: Doctors can view list of allergy drug reports on the web application. URS-28: FDAs can view a FDA home page on the web application.

URS-29: FDAs can view an allergy report on the web application. URS-30: FDAs can view list of allergy reports on the web application.

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**System Requirement Specification**

SRS-001: The system shall provide menu bars (home, and logout).

SRS-002: The system shall provide patient options menu box (create patient and manage patient) and allergy options menu box (create allergy report and manage allergy reports).

SRS-003: The system shall display information of current doctor which includes position, name,

surname and username.

SRS-004: The system shall provide the breadcrumb link.

SRS-005: The system shall provide patient create form to allow to doctor input information which includes personal ID, name, surname, prescription, and username.

SRS-006: The system shall display error message “Personal ID cannot be blank.” when doctors do not

input personal ID.

SRS-007: The system shall display error message “Personal ID has already been exist.” when doctors

input personal ID that exist in the database.

SRS-008: The system shall display error message “Personal ID is invalid” when doctors input wrong

personal Id.

SRS-009: The system shall display error message “Name cannot be blank.” when doctors do not input

name.

SRS-010: The system shall display error message “Surname cannot be blank.” when doctors do not

input surname.

SRS-011: The system shall display error message “Prescription cannot be blank.” when doctors do not

input prescription.

SRS-012: The system shall display error message “Username cannot be blank.” when doctors do not

input username.

SRS-013: The system shall display error message “Username has already been taken. Please change.”

when doctors input username that repeated with the database.

SRS-014: The system shall display error message “Name is invalid.” when doctors input name

with not a letter on English language.

SRS-015: The system shall display error message “Surname is invalid.” when doctors input

surname with not a letter on English language.

SRS-016: The system shall provide a ‘Create’ button for creating patient’s profiles.

SRS-017: The system shall generate the password to a patient’s profile, which is 5 digits number.

SRS-018: The system shall store doctor’s id, and date time of creating profile into the database when

doctors click ‘Create’ button.

SRS-019: The system shall validate personal id, name, surname, prescription, and username by Ajax validation.

SRS-020: The system shall save data of patient’s profiles to database and redirect user to patient’s

profile UI.

SRS-021: The system shall provide the manage page, which includes create button, search text field, search button.

SRS-022: The system shall provide the table lists of patient which include seven columns (no.,

personal ID, name, surname, responsible, create date and options.)

SRS-023: The system shall provide ‘Update’ button () in the options column of table. SRS-024: The system shall retrieve patient’s profiles from database.



SRS-025: The system shall provide patient update profiles form that has default information (personal

ID, name, surname, prescription, and username).

SRS-026: The system shall provide a ‘Update’ button for updating patient’s profiles.

SRS-027: The system shall store doctor’s id, and date time of updating profile into the database when doctors click ‘Update’ button.

SRS-028: The system shall provide menu bars (home, and login).

SRS-029: The system shall save a new data of patient’s profiles to database and redirect user to patient’s profile UI.

SRS-030: The system shall display the message to show the number and total amount of patient’s profiles.

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SRS-031: The system shall provide ‘Delete’ button () in the options column of table.



SRS-032: The system shall interface to show the confirm box “Are you sure you want to delete this item?” when doctors click ‘Delete’ button on the web application.

SRS-033: The system shall be able to delete a patient’s profiles from the database when doctors click ‘OK’ button on the confirm box.

SRS-034: The system shall be not able to delete a patient’s profiles from the database when

doctors click ‘Cancel’ button.

SRS-035: The system shall display the message “*No results found*”, when the data that input does not exist in the database.

SRS-036: The system shall display the patient’s information on the table, when searching found the

match letters exist in the database.

SRS-037: The system shall provide ‘View’ button () in the options column of table**.**



SRS-038: The system shall provide the patient’s profiles UI, which includes personal ID, name,

surname, prescription, responsible, username, password, create date and update date of

patient’s profiles.

SRS-039: The system shall provide the ‘Update’ button and ‘Delete’ button.

SRS-040: The system shall provide user options menu box (create user and manage user).

SRS-041: The system shall display information of current admin which includes position, name, surname and username.

SRS-042: The system shall provide user’s profiles form to allow to admin input information which

include name, surname, username, password, confirm-password and select points of position

(Administrator, Doctor, and FDA).

SRS-043: The system shall display error message “Name cannot be blank.” when admins do not input

name.

SRS-044: The system shall display error message “Surname cannot be blank.” when admins do not

input surname.

SRS-045: The system shall display error message “Username cannot be blank.” when admins do not input username.

SRS-046: The system shall display error message “Username has already been taken. Please change.”

when admins input username that repeated with the database.

SRS-047: The system shall display error message “Password and Confirm-Password do not Match,

Please try again.” when admins input password and confirm-password do not match.

SRS-048: The system shall display error message “Name is invalid.” when admins input name

with not a letter on English language.

SRS-049: The system shall display error message “Surname is invalid.” when admins input

surname with not a letter on English language.

SRS-050: The system shall display error message “Position cannot be blank.” when admins do not

select the position.

SRS-051: The system shall provide a ‘Create’ button for creating user’s profile.

SRS-052: The system shall save data of user’s profiles to database and redirect user to user’s profile

UI.

SRS-053: The system shall provide the table lists of patient which include seven columns (no., personal ID, name, surname, reporter, create date and options.)

SRS-054: The system shall provide the table lists of user which include six columns (no., position, name, surname, username and options.)

SRS-055: The system shall retrieve user’s profiles from database.

SRS-056: The system shall provide user update form that has default information (name, surname, username, password, confirm-password and position).

SRS-057: The system shall provide a ‘Update’ button for updating user’s profiles.

SRS-058: The system shall save a new data of user’s profiles to database and redirect user to user’s

profile UI.

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SRS-059: The system shall display the message to show the number and total amount of user’s

profiles.

SRS-060: The system shall interface to show the confirm box “Are you sure you want to delete this item?” when admins click ‘Delete’ button on the web application.

SRS-061: The system shall be able to delete a user’s profiles from the database when admins click

‘OK’ button on the confirm box.

SRS-062: The system shall be not able to delete a user’s profiles from the database when admins

click ‘Cancel’ button.

SRS-063: The system shall display the user’s information on the table, when searching found the

match letters exist in the database.

SRS-064: The system shall provide the user’s profiles page, which includes Id, name, surname,

username, password, confirm-password and position.

SRS-065: The system shall provide the login form, to receive username and password.

SRS-066: The system displays the alert message “Cannot be blank “if users do not input the username

and password on the login form.

SRS-067: The system shall redirect user to the main page if user login successful

SRS-068: The system shall validate username and password from database.

SRS-069: The system shall provide ‘Login’ button for login to the web application.

SRS-070: The system shall displays error message “Username cannot be blank.” when user do not

input username.

SRS-071: The system shall displays error message “Password cannot be blank.” when user do not

input password.

SRS-072: The system shall displays error box message “Username is incorrect!” when username does

not exist in the database.

SRS-073: The system shall displays error box message “Password is incorrect!” when password does not exist in the database.

SRS-074: The system shall redirect user to particular home page if users login success. SRS-075: The system shall redirect users to main page if users click logout button.

SRS-076: The system shall provide the login form, to receive username and password.

SRS-077: The system shall validate username and password from database.

SRS-078: The system shall provide ‘login’ button for login to the mobile application.

SRS-079: The system shall display message “Incorrect username or password” if username or

password.

SRS-080: The system shall provide “logout” button on the main page.

SRS-081: The system shall redirect users to the login page if users click ‘logout’ button.

SRS-082: The system shall provide the QR code page, which includes exit button and “Show QR

code” button.

SRS-083: The system shall generate the QR code after select “Show QR code” button.

SRS-084: The system shall display the QR code to patient.

SRS-085: The system shall provide the scan QR button for open the scan QR function. SRS-086: The system shall scan QR code on the mobile application.

SRS-087: The system shall provide the information of patient after scan QR code completed. SRS-088**:** The system shall provide ‘confirm’ button for specify prescription.

SRS-089: The system shall display message “Successful” after select “confirm” button.

SRS-090: The system shall record the current time to the patient’s profile.

SRS-091: The system shall provide allergy report create form to doctor to input information which includes personal ID, name, surname, and allergy drug.

SRS-092: The system shall display error message “Allergy Drug cannot be blank.” when doctors do

not input allergy drug.

SRS-093: The system shall provide a ‘Create’ button for creating allergy report.

SRS-094: The system shall store doctor’s id, and date time of creating report into the database when doctors click ‘Create’ button.

SRS-095: The system shall display error message “Confirm-Password cannot be blank.” when admins

does not input confirm-password.

SRS-096: The system shall save allergy report to database and redirect user to allergy report UI.

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SRS-097: The system shall retrieve allergy report from database.

SRS-098: The system shall provide allergy report update form that has default information (personal

ID, name, surname, and allergy drug).

SRS-099: The system shall provide a ‘Update’ button for updating allergy report.

SRS-100: The system shall store doctor’s id date time of updating profile into the database when

doctors click ‘Update’ button.

SRS-101: The system shall display error message “Password cannot be blank.” when admins does not

input password.

SRS-102: The system shall save a new data of allergy report to database and redirect user to allergy report page.

SRS-103: The system shall display the message to show the number and total amount of allergy

reports.

SRS-104: The system shall interface to show the confirm box “Are you sure you want to delete this item?” when doctors click ‘Delete’ button on the web application.

SRS-105: The system shall be able to delete an allergy report from the database when doctors click

‘OK’ button on the confirm box.

SRS-106: The system shall be not able to delete an allergy report from the database when doctors click ‘Cancel’ button.

SRS-107: The system shall display the user’s information on the table, when searching found the

match letters exist in the database.

SRS-108: The system shall validate personal ID, name, surname, and allergy drug by Ajax validation. SRS-109: The system shall provide allergy options menu box (view reports list).

SRS-110: The system shall display information of current FDA which includes position, name,

surname and username.

SRS-111: The system shall validate name, surname, username, password, confirm-password and position by Ajax validation.

SRS-112: The system shall provide the list of allergy report page, SRS-113: The system shall validate input data by Ajax validation.

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**Use case**

UC-01: Doctors can view a doctor home page on the web application.

UC-02: Doctors can create a patient’s profile on the web application by inputting personal id, name,

surname, prescription and username.

UC-03: Doctors can update a patient’s profile on the web application by application by input personal

id, name, surname, prescription or username.

UC-04: Doctors can delete a patient’s profile on the web application.

UC-05: Doctors can search patient’s profiles on the web application by using personal id, name, and surname.

UC-06: Doctors can view a patient’s profile on the web application.

UC-07: Doctors can view list of patient’s profiles on the web application.

UC-08: Administrators can view an admin home page on the web application.

UC-09: Administrators can create a user’s profile on the web application by inputting name, surname,

username, password, confirm-password and position.

UC-10: Administrators can update a user’s profile on the web application by inputting name, surname, username, password, confirm-password or position.

UC-11: Administrators can delete a user’s profile on the web application.

UC-12: Administrators can search a user’s profile on the web application by using name, surname, and username.

UC-13: Administrators can view a user’s profile on the web application.

UC-14: Administrators can view list of user’s profile on the web application.

UC-15: Doctors, Administrations, and FDAs can login to the web application by using username and password.

UC-16: Doctors, Administrations, and FDAs can logout from the web application.

UC-17: Patients can login to the mobile application by using username and password. UC-18: Patients can logout from the mobile application.

UC-19: Patients can view the QR code on the mobile application.

UC-20: Pharmacists can scan the QR code on the mobile application.

UC-21: Pharmacists can add the time of dispensation to the patient’s profile on the mobile

application.

UC-01: Doctors can view a doctor home page on the web application.

UC-22: Doctors can create an allergy report on the web application by inputting personal id, name, surname, and allergy drug.

UC-23: Doctors can update an allergy report on the web application by inputting personal id, name,

surname, or allergy drug.

UC-24: Doctors can delete an allergy report on the web application.

UC-25: Doctors can search an allergy report on the web application by using personal id, name, and surname.

UC-26: Doctors can view an allergy drug report on the web application.

UC-27: Doctors can view list of allergy drug reports on the web application. UC-28: FDAs can view a FDA home page on the web application.

UC-29: FDAs can view an allergy report on the web application.

UC-30: FDAs can view list of allergy reports on the web application.

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**Use Case Diagram**

UCD-01: Prescription System.

UCD-02: Account Management System. UCD-03: Authentication System.

UCD-04: Verification System. UCD-05: Allergy Report System.

UCD-06: Summary Allergy Report System.

**Class**

Class-01: LoginForm

Class-02: SiteController

Class-03: User

Class-04: UserController

Class-05: Role

Class-06: AdminController

Class-07: DoctorController

Class-08: FdaController

Class-09: Patient

Class-10: PatientController

Class-11: Allergy

Class-12: AllergyController

Class-13: MainActivity

Class-14: QrEncodeActivity

Class-15: LoginActivity

Class-16: QRCodeEncoder

Class-17: ApiService

Class-18: LoginListener

Class-19: LoginEventManager

Class-20: PreferencesManager

Class-21: PrescriptionManager

Class-22: UpdateTimeListener

Class-23: LoginFragment

Class-24: MainFragment

Class-25: Config (web service)

Class-26: login (web service)

Class-27: update\_prescription (web service)

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**User Interface**

UI-01: Main page

UI-02: Administration home page

UI-03: Create user page UI-04: Update user page UI-05: Manage users page UI-06: User’s profile page UI-07: Doctor home page UI-08: Create patient page

UI-09: Update patient page

UI-10: Manage patients page

UI-11: Patient’s profile page

UI-12: Create allergy report page

UI-13: Update allergy report page UI-14: Manage allergy reports page UI-15: Allergy report page

UI-16: FDA home page

UI-17: List allergy reports page

UI-18: FDA Allergy report page

UI-19: Login page

UI-20: Login page (mobile) UI-21: Main page (mobile)

UI-22: QR code page (mobile)

UI-23: Scan QR code page (mobile) UI-24: Pharmacist page (mobile)

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**Activity Diagram (AD)**

AD-01: Doctors can view a doctor home page on the web application.

AD-02: Doctors can create a patient’s profile on the web application by inputting personal id, name, surname, prescription and username.

AD-03: Doctors can update a patient’s profile on the web application by application by input personal id, name, surname, prescription and username.

AD-04: Doctors can delete a patient’s profile on the web application.

AD-05: Doctors can search patient’s profiles on the web application by using personal id, name, and surname.

AD-06: Doctors can view a patient’s profile on the web application.

AD-07: Doctors can view list of patient’s profiles on the web application.

AD-08: Administrators can view an admin home page on the web application.

AD-09: Administrators can create a user’s profile on the web application by inputting name,

surname, username, password, confirm-password and position.

AD-10: Administrators can update a user’s profile on the web application by inputting name, surname, username, password, confirm-password and position.

AD-11: Administrators can delete a user’s profile on the web application.

AD-12: Administrators can search a user’s profile on the web application by using name, surname, and username.

AD-13: Administrators can view a user’s profile on the web application.

AD-14: Administrators can view list of user’s profile on the web application.

AD-15: Doctors, Administrations, and FDAs can login to the web application by using username and password.

AD-16: Doctors, Administrations, and FDAs can logout from the web application.

AD-17: Patients can login to the mobile application by using username and password. AD-18: Patients can logout from the mobile application.

AD-19: Patients can view the QR code on the mobile application.

AD-20: Pharmacists can scan the QR code on the mobile application.

AD-21: Pharmacists can add the time of dispensation to the patient’s profile on the mobile

application.

AD-22: Doctors can create an allergy report on the web application by inputting personal id, name, surname, and allergy drug.

AD-23: Doctors can update an allergy report on the web application by inputting personal id, name,

surname, and allergy drug.

AD-24: Doctors can delete an allergy report on the web application.

AD-25: Doctors can search an allergy report on the web application by using personal id, name, and surname.

AD-26: Doctors can view an allergy drug report on the web application.

AD-27: Doctors can view list of allergy drug reports on the web application. AD-28: FDAs can view a FDA home page on the web application.

AD-29: FDAs can view an allergy report on the web application.

AD-30: FDAs can view list of allergy reports on the web application.

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**Sequence Diagram**

SD-01: Doctors can view a doctor home page on the web application.

SD-02: Doctors can create a patient’s profile on the web application by inputting personal id, name, surname, prescription and username.

SD-03: Doctors can update a patient’s profile on the web application by application by input personal id, name, surname, prescription and username.

SD-04: Doctors can delete a patient’s profile on the web application.

SD-05: Doctors can search patient’s profiles on the web application by using personal id, name, and surname.

SD-06: Doctors can view a patient’s profile on the web application.

SD-07: Doctors can view list of patient’s profiles on the web application.

SD-08: Administrators can view an admin home page on the web application.

SD-09: Administrators can create a user’s profile on the web application by inputting name,

surname, username, password, confirm-password and position.

SD-10: Administrators can update a user’s profile on the web application by inputting name, surname, username, password, confirm-password and position.

SD-11: Administrators can delete a user’s profile on the web application.

SD-12: Administrators can search a user’s profile on the web application by using name, surname, and username.

SD-13: Administrators can view a user’s profile on the web application.

SD-14: Administrators can view list of user’s profile on the web application.

SD-15: Doctors, Administrations, and FDAs can login to the web application by using username and password.

SD-16: Doctors, Administrations, and FDAs can logout from the web application.

SD-17: Patients can login to the mobile application by using username and password. SD-18: Patients can logout from the mobile application.

SD-19: Patients can view the QR code on the mobile application.

SD-20: Pharmacists can scan the QR code on the mobile application.

SD-21: Pharmacists can add the time of dispensation to the patient’s profile on the mobile application.

SD-22: Doctors can create an allergy report on the web application by inputting personal id, name, surname, and allergy drug.

SD-23: Doctors can update an allergy report on the web application by inputting personal id, name, surname, and allergy drug.

SD-24: Doctors can delete an allergy report on the web application.

SD-25: Doctors can search an allergy report on the web application by using personal id, name, and surname.

SD-26: Doctors can view an allergy drug report on the web application.

SD-27: Doctors can view list of allergy drug reports on the web application. SD-28: FDAs can view a FDA home page on the web application.

SD-29: FDAs can view an allergy report on the web application.

SD-30: FDAs can view list of allergy reports on the web application.

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**Unit Test Case**

UTC-01: login(String username, String password) : Boolean

UTC-02: logout() : Boolean

UTC-03: getUserList() : ArrayList

UTC-04: viewUser(Int userId) : Mixed

UTC-05: createUser(User user) : Boolean

UTC-06: updateUser(User user) : Boolean

UTC-07: deleteUser(Int userId) : Boolean

UTC-08: searchUser(String users) : ArrayList UTC-09: getPatientList() : ArrayList

UTC-10: viewPatient(Int personal\_id) : Mixed

UTC-11: createPatient(Patient patient) : Boolean

UTC-12: updatePatient(Patient patient) : Boolean UTC-13: deletePatient(Int personal\_id) : Boolean UTC-14: searchPatient(String patients) : ArrayList UTC-15: getAllergyList() : ArrayList

UTC-16: viewAllergy(Int allergy\_id) : Mixed

UTC-17: getAllergyList2() : ArrayList

UTC-18: viewAllergy2(Int allergy\_id) : Mixed

UTC-19: createAllergy(Allergy allergy) : Boolean

UTC-20: updateAllergy(Allergy allergy) : Boolean UTC-21: deleteAllergy(Int allergy\_id) : Boolean

UTC-22: searchAllergy(String allergies) : ArrayList UTC-23: Login() : void

UTC-24: getUserInformation() : UserInformationModel

UTC-25: encode(String contents, BarcodeFormat format, int width, int height): BitMatrix

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**System Test Case**

STC-01: Doctors can view a doctor home page on the web application.

STC-02: Doctors can create a patient’s profile on the web application by inputting personal id, name, surname, prescription and username.

STC-03: Doctors can update a patient’s profile on the web application by application by input personal id, name, surname, prescription and username.

STC-04: Doctors can delete a patient’s profile on the web application.

STC-05: Doctors can search patient’s profiles on the web application by using personal id, name, and surname.

STC-06: Doctors can view a patient’s profile on the web application.

STC-07: Doctors can view list of patient’s profiles on the web application.

STC-08: Administrators can view an admin home page on the web application.

STC-09: Administrators can create a user’s profile on the web application by inputting name,

surname, username, password, confirm-password and position.

STC-10: Administrators can update a user’s profile on the web application by inputting name, surname, username, password, confirm-password and position.

STC-11: Administrators can delete a user’s profile on the web application.

STC-12: Administrators can search a user’s profile on the web application by using name, surname, and username.

STC-13: Administrators can view a user’s profile on the web application.

STC-14: Administrators can view list of user’s profile on the web application.

STC-15: Doctors, Administrations, and FDAs can login to the web application by using username and password.

STC-16: Doctors, Administrations, and FDAs can logout from the web application.

STC-17: Patients can login to the mobile application by using username and password. STC-18: Patients can logout from the mobile application.

STC-19: Patients can view the QR code on the mobile application. STC-20: Pharmacists can scan the QR code on the mobile application.

STC-21: Pharmacists can add the time of dispensation to the patient’s profile on the mobile

application.

STC-01: Doctors can view a doctor home page on the web application.

STC-22: Doctors can create an allergy report on the web application by inputting personal id, name, surname, and allergy drug.

STC-23: Doctors can update an allergy report on the web application by inputting personal id, name,

surname, and allergy drug.

STC-24: Doctors can delete an allergy report on the web application.

STC-25: Doctors can search an allergy report on the web application by using personal id, name, and surname.

STC-26: Doctors can view an allergy drug report on the web application.

STC-27: Doctors can view list of allergy drug reports on the web application. STC-28: FDAs can view a FDA home page on the web application.

STC-29: FDAs can view an allergy report on the web application.

STC-30: FDAs can view list of allergy reports on the web application.

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