**ESMS’S REQUIREMENTS**

|  |  |  |
| --- | --- | --- |
| ***ID*** | ***Requirement*** | ***Description*** |
| R01 | Register | Create new account (for staff, by admin) |
| R02 | Authentication | Verify authorize user |
| R03 | Manage Staff | CRUD staff |
| R04 | Edit permission | Edit rights to access features of the system |
| R05 | Manage product | CRUD product |
| R06 | Import goods | Import a large quantity of products when supplier supply goods |
| R07 | Manage customer | CRUD customer |
| R08 | Export invoice | Export invoice of past purchases made by customers and the staff who processed it |
| R09 | Issue warranty | Every product has a warranty, staff is usually in charge of managing these |
| R10 | Check warranty | Check the warranty validation of a purchased item |
| R11 | Manage supplier | CRUD supplier |
| R12 | View supplier's product | View all products that were supplied by a supplier |
| R13 | View change history of supplier | Since staff can edit supplier’s information, the system needs to keep track of who made the changes |

**Requirements Traceability Linkage Matrix**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *ID* | R01 | R02 | R03 | R04 | R05 | R06 | R07 | R08 | R09 | R10 | R11 | R12 | R13 |
| R01 |  |  | U | U |  |  |  |  |  |  |  |  |  |
| R02 |  |  | U |  |  |  |  |  |  |  |  |  |  |
| R03 | R |  |  | U |  |  |  |  |  |  |  |  |  |
| R04 |  |  | R |  |  |  |  |  |  |  |  |  |  |
| R05 |  |  |  |  |  | U |  | U |  |  |  |  |  |
| R06 |  |  |  |  | R |  |  |  |  |  |  |  |  |
| R07 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R08 |  |  | U |  |  |  | U |  |  |  |  |  |  |
| R09 |  |  |  |  | U |  | U |  |  |  |  |  |  |
| R10 |  |  | U |  | U |  |  |  | R |  |  |  |  |
| R11 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R12 |  |  |  |  | U |  |  |  |  |  | U |  |  |
| R13 |  |  | U |  |  |  |  |  |  |  | U | U |  |

**Requirements Source Traceability Matrix**

|  |  |  |  |
| --- | --- | --- | --- |
| *Requirement ID* | Customer requirement | Use case Specification | Luật Thương Mại 2005 |
| R01 | X | X |  |
| R02 | X | X |  |
| R03 | X | X |  |
| R04 | X | X |  |
| R05 | X | X |  |
| R06 | X | X | X |
| R07 | X | X | X |
| R08 | X | X | X |
| R09 | X | X |  |
| R10 | X | X |  |
| R11 | X | X |  |
| R12 | X | X |  |
| R13 | X | X |  |

**Requirements Stakeholder Traceability Matrix**

|  |  |  |
| --- | --- | --- |
| *Requirement ID* | Rank 1 (lowest importance) – 5 (highest importance) | Stakeholder Source  A-Admin, S-Staff |
| R01 | 3 | A |
| R02 | 3 | A |
| R03 | 5 | A |
| R04 | 3 | A |
| R05 | 5 | A, S |
| R06 | 4 | A, S |
| R07 | 4 | A, S |
| R08 | 2 | A, S |
| R09 | 3 | A, S |
| R10 | 3 | A, S |
| R11 | 3 | A, S |
| R12 | 2 | A, S |
| R13 | 2 | A, S |