## Software System Attribute

### Usability

#### Graphic User Interface

All the texts, labels and alerts are written in Vietnamese.

#### Usability

* The system usability are easy to use that will need less than 3 days of training for company staffs to use the system.
* Police officers need less than 1 hours of training to use the mobile app.
* User Manual is clear, easy to understand and increase experience for users

#### Installation

* User can follow installation and manual guide for installation. If there are any problems, user cans contacts developer for help.

### Reliability

* Contract state notification should be sent on time, notification email should be sent successfully to receiver 99% of the time.
* Mean time between system failure is more than 6 months.
* Mobile checker app must always return correct value of the cards and contracts.
* Mobile printer app must always write correct data to NFC cards based on the contract information.

### Availability

N/A

### Security

* All input data are validated before saving to database.
* All privacy information such as password is encrypted to ensure security.
* Users is authentication/authorization for all users when they login to the system.

### Maintainability

* The system are divided into modules.
* Code is easy to maintain and extend.

### Portability

* Admin, staff and goods owner can use application on every OS supported web browser.
* Goods owner and truck driver can use mobile application on every Android smartphones that have version greater than 4.0.

### Performance

* Requests from web application are responded in less than 10 seconds.
* Mobile checker application should return card information in less than 1 minute.
* Mobile printer application should write data to NFC card successfully in less than 1 minute.

## Conceptual Diagram

