# Software Requirements Specifications (SRS)

## User Requirement Specification

The system has five actors including: guest, customer, staff, admin and system.

|  |  |
| --- | --- |
| **Actor** | **Description** |
| Guest |  |
| Customer |  |
| Admin |  |
| Manager |  |
| Staff |  |
| System |  |

### Guest requirement

* **Register:** Guest need to register to become member of system.
* **Login**: Guest uses email and password to login into the system to rent or exchange toys.

## System Requirement Specification

### External Interface Requirements

#### User Interfaces

* User interface must be friendly, simple.
* All functions should be showed clearly and don’t make user confuse.

#### Hardware Interfaces

* The system will use the standard hardware and data communications resources of a standard computer.

#### Software Interfaces

* The website run in Firefox and Chrome browsers.

#### Communications Protocol

* The website uses:
* HTTP/HTTPS protocol for communication between the web browser and the web server.
* TCP/IP network protocol for communication with HTTP protocol.
* WAP protocol for sending message for customer.

### System Overview Use Case:

Figure 2: Use Case Overview

### List of Use Case:

#### <Guest>Overview Use Case

Figure 3: <Guest>Overview Use Case

#### <Guest> Register

**Use Case Diagram**

Figure 4: <Guest> Register

**Use Case Specification**

Table 12: <Staff>Cancel Exchange

## Software System Attribute

### Usability

* Staff should need less than one training week to interact with system.

### Reliability

* Information should be updated every day.

### Availability

* N/A

### Security

* All input data should be validated before saving to database.
* All privacy information, such as password, should be encrypted to ensure security.
* User should be authenticated and authorized when accessing to the system.

### Maintainability

* The system should be divided into modules and code. It would be easy to maintain and upgrade.

### Portability

* N/A

### Performance

* All requests should be response in no more than 1 minute.

## Conceptual Diagram