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|  | **MINISTRY OF EDUCATION AND TRAINING** |

**FPT UNIVERSITY**

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| Project Document | |
| ***Vehicle Helping on Road Application*** | |
|  | |
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**Report No. 3: Software Requirement Specification**

# **1. User Requirement Specification**

## **1.1.** **Administrator Requirement**

Administrators (admin) are people who manage the whole system flow.

Admin can use following functions:

* Login
* Reset forgotten password
* Change password
* View user’s profile
* Edit user’s profile (including edit information and change avatar)
* Logout
* Disable server
* View log information
* Edit log fixing status
* Create manager
* View mechanic profile
* Edit mechanic profile
* ….

## **1.2. Mechanic Requirement**

Mechanics are people who ….

Mechanics can use following functions:

* Login
* Register
* Reset forgotten password
* …

## **1.3. Customer Requirement**

Employees are people who …

Employees can use following functions:

* Login
* Register
* Reset forgotten password
* Change password
* View user’s profile
* Edit user’s profile (including edit information and change avatar)
* Logout
* ….

# **2. System Requirement Specification**

## **2.1. External Interface Requirement**

### 2.1.1. User Interface

### 2.1.2. Hardware Interface:

* Enterprise Server Install: Minimum 4GB available disk space, 2GB RAM (4GB recommended).
* Minimum 1.4 GHz Processor Speed (2.0 GHz or faster recommended).
* Enterprise Client Install: minimum 1GB available disk space.
* Smartphone supports Android Operating System (Android 4.15 and above).
* PC or Mac which supports Browsers (Chromium required):
  + Chrome
  + Firefox
  + Opera
  + Microsoft Edge Insider (from 2019 and above)

### 2.1.3. Software Interface

Smartphone with Android Operation System from version 4.1.5 or above.

PC or Mac which supports Browser.

### 2.1.4. Communication Protocol

Restful API (follow the format of Shopify API):

## **2.2. System Overview Use Case**

(Use case paste here)

*Figure . System overview use case*

# **3.** **Software System Attribute**

## **3.1. Usability**

### 3.1.1. Interface

* *Login screen* is easily to use with common feature: login by account, by Facebook, by Gmail.
* *Dashboard*: statistics and report on error, exception, visitor, server, application daily is intuitive and vivid, easy to understand.
* *Table and form component*: Eye-catching, easy to sympathize with bright and intuitive colors.
* *Profile*: display full information with personalized photos and wallpapers
* *Search engine*: search item in main component with fast speed in ideal condition of internet and fluent protocol pipeline of client-server-client relationship.

### 3.1.2. Administrator (Admin)

* Admin can learn to manage main component (server, application, application instance, log, user) in short time (measure about under 10 minutes).
* Admin can understand the structure of company’s software and hardware resource with information on main component.
* …

### 3.1.3. Mechanics

* Manager can focus on managing application, application instance, log status, employee without knowledge about company’s resources in hardware and software.
* Manager can control projects in charge easily with power in assigned.
* Only manager can active / deactive log status.
* ….

### 3.1.4. Customer

* Employee can only edit profile and see log, get incoming log appear notification so employees can focus on log report.
* Employee can view info on all main components to get to understand the right assignments.
* ….

## **3.2. Reliability**

* …

## **3.3. Availability**

* …

## **3.4. Security**

….

## **3.5. Maintainability**

* ….

## **3.6. Portability**

* ….

## **3.7. Performance**

### 3.7.1. Front end

* …

### 3.7.2. Backend

* …