**Requirement specifications**

**Joonggu**

**Version 1.0**



**Personal Background**

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| 1.0 | Initial preparation | 2015/10/12 |
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# 1. Functional requirements

# Follow storyboard and design guide.

# 2. Non-functional requirements

## 2.1.1. {System respond time}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Required ID | | Required name | | |
| NR0010 | | Performance requirements | | |
|  | Description | - Main screen display speed no more than 3 seconds | | |
| Requirement details |  |
| Category | Performance | | |
| Importance level | Medium | Difficulty level | High |
| Source |  | Relevant ministries |  |

## 2.1.2. {Android accessibility}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Required ID | | Required name | | |
| NR0020 | | Android accessibility quality mark certification | | |
| Requirement details | Description | * It can compatible with Android 4.0+. | | |
| Category | User interface | | |
| Importance | Medium | Difficulty level | High |
| Source | Proposal negotiation agenda (Technical negotiation) | Relevant ministries |  |

## 2.1.3. {IPhone accessibility}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Required ID | | Required name | | |
| NR0030 | | IPhone accessibility quality mark certification | | |
| Requirement details | Description | - It can compatible with ios 5.0+ | | |
| Category | User interface | | |
| Importance | Medium | Difficulty level | High |
| Source | Proposal negotiation agenda (Technical negotiation) | Relevant ministries |  |

## 2.1.4. {Web accessibility}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Required ID | | Required name | | |
| NR0040 | | Web accessibility quality mark certification.(Admin side) | | |
| Requirement details | Description | - It can compatible with ie 8.0+, chrome, firefox. | | |
| Category | User interface | | |
| Importance | Medium | Difficulty level | High |
| Source | Proposal negotiation agenda (Technical negotiation) | Relevant ministries |  |

## 

## 2.1.5. {App framework}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Required ID | | Required name | | |
| NR0050 | | Make native app. | | |
| Requirement details | Description | - Use best comfortable native framework.  Example -  Android) <http://trams.co.kr:5777/index.php/Development_Environment_Definition_for_Android>  Iphone)  http://trams.co.kr:5777/index.php/Development\_Environment\_Definition\_for\_iOS | | |
| Category | System | | |
| Importance | Medium | Difficulty level | High |
| Source | Proposal negotiation agenda (Technical negotiation) | Relevant ministries |  |

## 2.1.6. {Log management standard}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Required ID | | Required name | | |
| NR0060 | | Log management standard | | |
|  |  | - Unauthorized individuals are inaccessible to log management (modifying log or deleting log are not authorized to any individuals; apprehending log and analyzing log are authorized only to certain personnel.) | | |
| Requirement details | Descriptions |
| Category | Tracking | | |
| Importance level | Medium | Difficulty level | High |
| Source |  | Relevant ministries |  |

## 2.1.7. {web-framework}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Required ID | | Required name | | |
| NR0070 | | Use spring-framework(Java). | | |
|  |  | - See (http://trams.co.kr:5777/index.php/Development\_Environment\_Definition(JAVA)) | | |
| Requirement details | Descriptions |
| Category | System | | |
| Importance level | Medium | Difficulty level | High |
| Source |  | Relevant ministries |  |

## 2.1.8. {mobile-assessibility}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Required ID | | Required name | | |
| NR0080 | | This app is used for disabled person. So we should be provide convenience for them.  Let follow below instruction.  . | | |
|  |  | 1. provide alternative text  If some contents are not text, you should provide alternative text by using reading fuction or other programs.  In case of iOS, you can provide alternative text label by using Interface Builder or UI Accessibility API.  In case of Android, you can provide it by using XML or Java code.  2. Focus  You should provide Focus funtion to contents, because Screen Reading program can be used in case of focusable contents.  And movement order should be sequential.  In case of iOS, you can provide focus by activating Accessibility.  In case of Android, you can provide focus by activating focusable.  3. provide OS accessibility function  You should use the Accessivility attributes and funtions which mobile OS provide, in behalf of compatible with mobile peripheral devices.  ex) UI Accessibility attribute in iOS - Label, Traits, Hint, Frame, Value  4. provide Touch interface  You should provide touch functions, in order for User to be able to use App without complicated behavior like slide, multi-touch, drag and drop.  5. Pattern or design for color vision defectives  You should provide pattern, in order for color vision defectives to be able to use App.  6. Brightness contrast  High Brightness contrastfor bad sight people or aged people.  7. Provide subtitle  If there is audio contents, you should provide subtitle or sign language, for the hearing-impaired.  Confirm checkmanual.pdf | | |
| Requirement details | Descriptions |
| Category | System | | |
| Importance level | Medium | Difficulty level | High |
| Source |  | Relevant ministries |  |

# 3. Interface requirements

## 3.1.1. {naver map}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Required ID | | Required name | | |
| NR0090 | | Use naver map not google map. | | |
|  |  | - See <http://trams.co.kr:5777/index.php/Naver_Map>  (you need registration key. Let request to Vietnam ceo or Korean cto) | | |
| Requirement details | Descriptions |
| Category | System | | |
| Importance level | Medium | Difficulty level | High |
| Source |  | Relevant ministries |  |