3.0. Requirements Specification

## 3.1 External Interface Requirements

* **Description**

The interface crolling that menu of several restaurants(‘domitory cafeteria’, ‘Bussiness incubator center cafeteria’, ‘students cafeteria’, ‘foodcourt’, ‘College emplyee cafeteria’) is needed.

Because that the format of the menu is different for each restaurant, each parser is needed to interpret the data for each restaurant.

To enable user to select the priority of several restraunts, the interface is needed to connect to database of user configuration.

## 3.2 Functional Requirements

The Logical Structure of the Data is contained in Section 3.3.1.

* **Overall Use Case Diagram (‘금주의 식단’)**

C:\Users\Frederica Bernkastel\AppData\Local\Microsoft\Windows\INetCache\Content.Word\usecase1 (1).png

### Select a day of week.

* **Use Case Diagram**



* **Use Case Chart**

|  |  |
| --- | --- |
| **Use Case Name** | Select day of week |
| **Goal in context:** | User see the menu of the restraunts that user can visit at the selected day of week. |
| **Trigger** | Press the button among the buttons of the day of week ‘월’, ‘화’, ‘수’, ‘목’, ‘금’, ‘토’, ‘일’ |
| **Precondition** | ‘Weekly menu’(‘금주의 식단’) page is opened. |
| **Basic Path** | 1. If user open ‘Weekly menu’(‘금주의 식단’) page, it shows the buttons of the day of week ‘월’, ‘화’, ‘수’, ‘목’, ‘금’, ‘토’, ‘일’ the current day button is selected by default.. 2. It show menu ,user can visit, to user. 3. If user pressed other day button, it procedding step3. |
| **Alternative Paths** | In step3, shown restraunt varies from selected the day of the week.  After user select the day of week button, if user select time, the menu of several restraunt by selected time.  If user select ‘토’or ‘일’ button, it shows only the menu of ‘domitory cafeteria’, regardless of what time is selected. |
| **Postcondition** | It shows the menu of the seleceted day of week that user can visit. |

### Select time

* **Use Case Diagram**



* **Use Case Chart**

|  |  |
| --- | --- |
| **Use Case Name** | Divide menu by time. |
| **Goal in context:** | Show the menu can be ordered by time. |
| **Trigger** | 1. Press one button among ‘breakfast’, ‘lunch’, ‘dinner’ button. 2. Swipe screen to left or right in ‘Weekly Menu’ page. |
| **Precondition** | The one of the day of week button ‘monday’, ‘tuesday’, ‘wensday’, ‘thursday’, ‘friday’, ‘saturaday’, ‘Sunday’ is selected. |
| **Basic Path** | 1. In weekday, when user visit ‘Weekly Menu’ page, time button(‘breakfast’, ‘lunch’, ‘dinner’) is shown, by default, the time button, close to the current time, is selected. 2. It shows menu of seleceted time. 3. When user select other time, proceed step3. |
| **Alternative Paths** | After step1, the time buttons can be not exist, accoring to selected day of week   * If ‘saturaday’ or ‘Sunday’ button is selected, it shows the menu of ‘domitory cafeteria’ for all time, regardless of time. |
| **Postcondition** | Display the menu user can order at time, in page. |

### Set priority for the restraunts

* **Use Case Diagram**



* **Use Case Chart**

|  |  |
| --- | --- |
| **Use Case Name** | Set priority for the restraunts |
| **Goal in context:** | Show the menu by priority user set. |
| **Trigger** | User drag the panel of the restraunts. |
| **Precondition** | 1. In ‘Weekly Menu’ page, the button of the day among the ‘Monday’, Tuesday’, ‘Wendsday’, ‘Thusday’, ‘Friday’ is selected, not ‘Saturday’, or ‘Sunday’. 2. User logined. |
| **Basic Path** | 1. In ‘Weekly menu’ page, press long the restraunts panel current shown. 2. The restraunts panel state is changed the draggable state, and enabled to move position by dragging up or down to other restraunts. 3. After position is moved, update user database for the priority. |
| **Alternative Paths** | 1. If user don’t login, this function is not enabled. 2. If ‘Saturaday’ or ‘Sunday’ button is selected, this function is not enabled because that only ‘Domitory cafeteria’ is exists. |
| **Postcondition** | 1. Update the priority changed by user to user setting database. 2. Show the menus appying priority user changed. |

## 3.3 Detailed Non-Functional Requirements

### 3.3.1 User Interface

* 3.3.1.1 ‘Weekly Menu’

