3.0. Requirements Specification

## 3.1 External Interface Requirements

* **Description**

The interface to crawl that information of the menu of several restaurants(‘기숙사식당’, ‘창업보육센터식당’, ‘학생식당’, ‘푸드코트’, ‘교직원식당’) 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 priorities of several restaurants, 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** | Selecting the day of week |
| **Goal in context:** | User see the menu of the restaurants 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’, by default, the current day button is selected. 2. It shows the menu, user can visit, to user. 3. If user pressed other day button, it proceed step3. |
| **Alternative Paths** | In step3, the shown restaurants varies from the selected day of the week.   1. After user selects the day of week button, if user select time, the menu of several restaurant by selected time. 2. If user selects ‘토’or ‘일’ button, it shows only the menu of ‘기숙사 식당’, regardless of what time is selected. |
| **Post condition** | It shows the menu of the selected day of week that user can visit. |

### Select time

* **Use Case Diagram**



* **Use Case Chart**

|  |  |
| --- | --- |
| **Use Case Name** | Dividing the menu by time. |
| **Goal in context:** | Show the menu can be ordered by time. |
| **Trigger** | 1. Press one button among ‘아침’, ‘점심’, ‘저녁’ button. 2. Swipe screen to left or right in ‘금주의 식단’ page. |
| **Precondition** | The one of the day of week button ‘월’, ‘화’, ‘수’, ‘목’, ‘금’ is selected. |
| **Basic Path** | 1. In weekday, when user visit ‘금주의 식단’ page, time button(‘아침’, ‘점심’, ‘저녁’) is shown, by default, the time button, close to the current time, is selected. 2. It shows menu of selected time. 3. When user select other time, proceed step3. |
| **Alternative Paths** | After step1, the time buttons can be not exist, according to selected day of week   * If ‘토’ or ‘일’ button is selected, it shows the menu of ‘기숙사 식당’ for all time, regardless of time. |
| **Post condition** | Display the menu user can order at time, in page. |

### Set priority for the restaurants

* **Use Case Diagram**



* **Use Case Chart**

|  |  |
| --- | --- |
| **Use Case Name** | Set priority for the restaurants |
| **Goal in context:** | Show the menu by priority user set. |
| **Trigger** | User drag the panel of the restaurants. |
| **Precondition** | 1. In ‘Weekly Menu’ page, the button of the day among the ‘월’, ‘화’, ‘수’, ‘목’, ‘금’ is selected, not ‘토’, or ‘일’. 2. User logged in. |
| **Basic Path** | 1. In ‘Weekly menu’ page, press long the restaurants panel current shown. 2. The restaurants panel state is changed the draggable state, and enabled to move position by dragging up or down to other restaurants. 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 ‘토’, or ‘일’ button is selected, this function is not enabled because that only ‘기숙사 식당’ is exists. |
| **Post condition** | 1. Update the priority changed by user to user setting database. 2. Show the menus applying priority user changed. |

## 3.3 Detailed Non-Functional Requirements

### 3.3.1 User Interface

* 3.3.1.1 ‘Weekly Menu’

