This is a first draft of the database description for the Food and Housing Services project. This document will be reviewed after meeting with the senior staff members of the organization which will take place on the 09/11/19.

1   Business space

UW Housing Food Services (HFS) is an integral partner in the University's drive to provide vibrant student life and educational opportunities. HFS provides students with housing accommodations that meet their needs, promote community, support their academic success, leadership development and social connections, and facilitate campus engagement. HFS provides housing for 10,101 student. HFS' amenities include:

- Two residential dining venues—Local Point and Center Table—with over 898,000 transactions last year

- Two student community centers—Area 01 and The MILL—and Fitness Center West, with over 99,000 visits from residents last year

- District Market grocery on West Campus, with 5,000 transactions daily

Housing & Food Services of the University of Washington have reached out to the School of Informatics for help in collection and analysis of their data.

2   Typical users

Database will be designed to support senior staff of HFS in evaluating the effectiveness of newly introduced initiatives in their facilities. The typical user is not assumed to have any programming or database modelling knowledge. Therefore a front-end tab will be developed to support easy access to the data insights.

Different users are assumed to focus on different Keep Performance Indicators (KPIs) for their initiatives. Senior environmental officer may be interested in average usage of water in the facilities after two week long campaign promoting water conservation. Similarly, food facilities may be interested in evaluating student satisfaction after introducing new menu or which menu brings has highest profitability.

This project will focus on the needs of only one department of HFS (i.e Food Services). Details are to be discussed during the launch meeting.

3   Decisions your users will make based on the data in the database

Description of Food Services

The database will collect the data on the number and time of servings, type of food served, supply orders (amount and time), food waste and location of the facilities. User will be able to compare the frequency of supplies delivery vs food waste. Similarly, user will be able to identify which facilities produce the biggest amount of waist and how it correlated with servings per hour.

Food services will use the database to evaluate new initiatives aimed at reduction of food waste across their facilities. The data will allow to compare the total amount of food waste produced by each facility on daily/weekly/monthly bases. The user will be able to decide whether there is a correlation between type of food served in the facility and waste produced. The senior officials will be able to adjust the menu and amount of food serve in order to reduce the waste and observe if the implemented changes reduced the waste produced by each facility.