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| *CometBites* |
| **Supplementary Specification** |
| **SE 6387 Advanced Software Engineering Project**  **R.Z. Wenkstern**    ***11/14/2016*** |

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# **1. Objectives**

This document aims to define requirements related to quality attributes that are involved directly or indirectly to the CometBites software system. The objective is to use a kiosk and online application combination of services to provide the customers benefits, such as accommodation of customers with restricted time who wants to place an order remotely and improve the place order process in the actual food joint (in front of the physical restaurant) using a predefined list of options of foods from each joint displayed in a kiosk device.

Additional objectives of CometBites are: keep track of the orders, provide an estimated waiting time for ordering, send notifications to the customer whenever there is a change in their order status, and support the order pickup process. Last but not least, food joints can manage the orders currently in preparation, the ones already prepared, and orders that need preparation. The following section describes all the objectives in terms of quality attributes, or the so called non-functional requirements.

# 2. Enhanceability

The system shall support changes that involves existing functionalities.

This is particularly important because CometBites is expect to go under changes in the near future, mainly to include a connection to the login component from UTD login system and a connection to the payment component from multiple distinct external payment systems. These components must be designed to support changes.

# 3. Reusability

The system components shall be designed in a way they can be used by other systems within the same architecture style.

An important aspect of CometBites is that their components must be independent, i.e., the software system must be capable of providing the backend functionality to a system that uses different display devices, and the app shall be able to use other endpoints to provide the same features to the user.

## 4. Adaptability

The system shall be able to detect whether the environment is mobile or not and adapt to these changes.

CometBites components will be executed in multiple devices. From the user perspective, these devices will be smartphones and kiosks, with possible addition of different devices, such as web app, and so on. The software system must be able to detect the difference between such devices and adapt to their particularities.

## 5. Understandability

The system shall be structured in legible way, while maintaining a clear view of how it can be used.

## 6. User-friendly

The system shall make extended use of icons and buttons to aid user to use the system.