**Functional Requirements** of the *Recycling Promotion System*:

**1.1** The user must be able to locate his current location on his device when enabled.

**1.1.1** If the user is unable to locate his current location on his device, he should be able to enter his

location.

**1.2** The system must locate the nearest Recycling Bins to the user, based on his location

detected/inputted into the system.

**1.2.1** The system must convert the user’s input address to usable coordinates that can return a pinpointed value.

**1.2.2** The system must display the located nearest Recycling Bins via a zoomed-in map of the user’s

location and drop pins over the location of each Recycling Bin.

**2.1** The system must provide a warning to the user, on the type of items recyclable.

**2.1.1** If the user is unsure if his item is recyclable after the warning, the user must be able to scan his

object.

**2.1.2** The system must be able to suggest whether it is recyclable.

**Non-Functional Requirements** of the *Recycling Promotion System*:

**1.1** The location must be detected in less than 5 seconds

**1.2** The nearest rubbish bins must be generated in less than 10 seconds

**1.3** The map must have a definition of at least 720px for the user to identify the location clearly.

**2.1** The classification of recyclables must be done in 15 seconds or less

**2.2** The warning provided by the system should be specific, i.e. Picture examples of what is classified as a

Recyclable per category must be shown to the user.