CRC Cards for RMOS and RCM Project

**Name: Student ID: Section:**

Woon Jeen Tang W0987907 COEN275 TR

**Problem-specific classes:**

* RMOS
* RCM
* Recyclable Item
* Administrator
* Reward
* Date (emptiedTime) –No need to create, exists in Java API

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| **Class Name: RMOS** | |
| **Responsibility** | **Collaborator** |
| Provide administrator with functionalities to:   * Activate/ Remove a RCM * Keeps track of the status of each individual RCM * Updates the capabilities of the RCMs * Collects statistical information about usage of the RCMs it monitors | * RCM * RecyclableItem |

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| **Class Name: RCM** | |
| **Responsibility** | **Collaborator** |
| * Knows its ID and location, operational status and capacity (in weight) * Knows a list of items that it can accept and price paid for each item * Calculates total weight of items and amount of money currently in the machine * Knows last time the machine is emptied of items * Knows the statistical information about usage of itself | * RecyclableItem * Reward * Date |

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| **Class Name: RecyclableItem** | |
| **Responsibility** | **Collaborator** |
| * Knows its type and price paid for it by weight |  |

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| **Class Name: Administrator** | |
| **Responsibility** | **Collaborator** |
| * Knows his username to log in RMOS |  |

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| **Class Name: Reward** | |
| **Responsibility** | **Collaborator** |
| * Calculates the value of items that a customer recycles. | * RecyclableItem |

**Presentation-specific classes:**

* Display Screen
* Selection Buttons
* Chart
* Receptacle for Recyclable Item- No need to create, exists in the real machines
* Receptacle for Money or Coupon- No need to create, exists in the real machines

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| **Class Name: DisplayScreen** | |
| **Responsibility** | **Collaborator** |
| * Displays options and information when an administrator monitors RCMs on RMOS system. * Displays options and information when a customer uses a RCM | * RMOS * RCM * Chart |

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| **Class Name: Chart** | |
| **Responsibility** | **Collaborator** |
| * Calculates the total weight of recycled items by machine (per day, week, month, year) * Calculates total value issued | * RCM |

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| **Class Name: SelectionButton** | |
| **Responsibility** | **Collaborator** |
| * Provides administrators with options when monitoring RCMs * Provides customers with options when using a RCM | * DisplayScreen |