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# Eco Recycle System

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# Introduction

- Recycle Items using Eco Recycle System
- Design, make and market automated ***EcoRecycle System***, consisting of ***Recycling machines*** and ***Recycling stations*** which monitor the recycling machines.
- Elements
  - ***Recycling machines***
  - ***Recycling stations***
  - ***Recyclable Item***

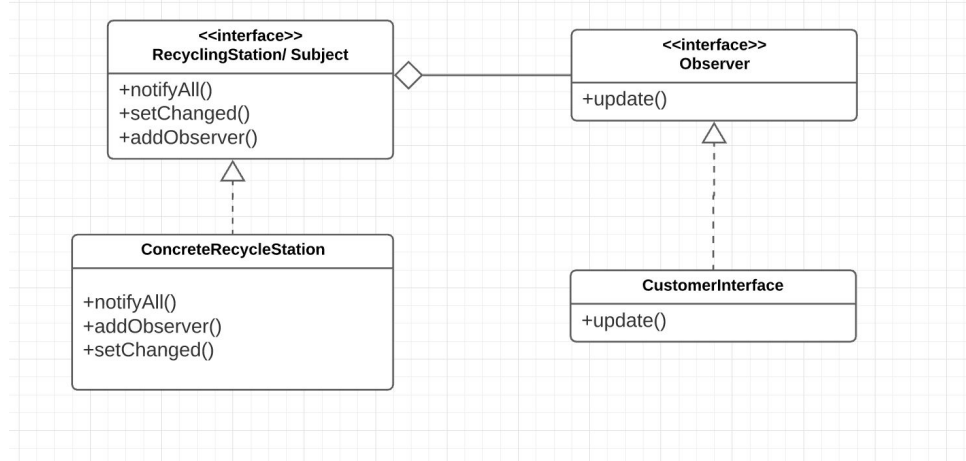
# Patterns Used

- Observer Pattern
- Iterator Pattern
- Facade pattern
- FlyWeight Pattern
- Builder Pattern
- Singleton Design Pattern

# Patterns

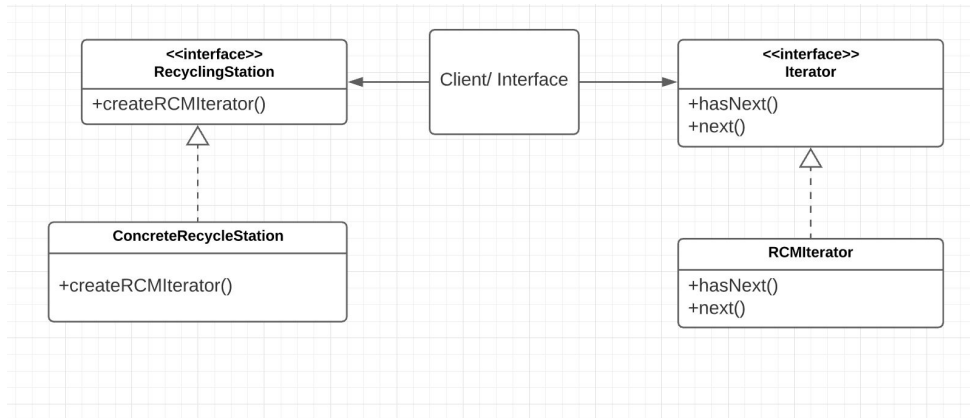
## Observer

- Notify changes related to Add/Update/Activate/Deactivate/Empty RCM to Customer Interface GUI
- Publisher => Recycling Station, Subscriber => RCM User Interface
- Publisher => Recycling Machine, Subscriber => Recycle User Interface

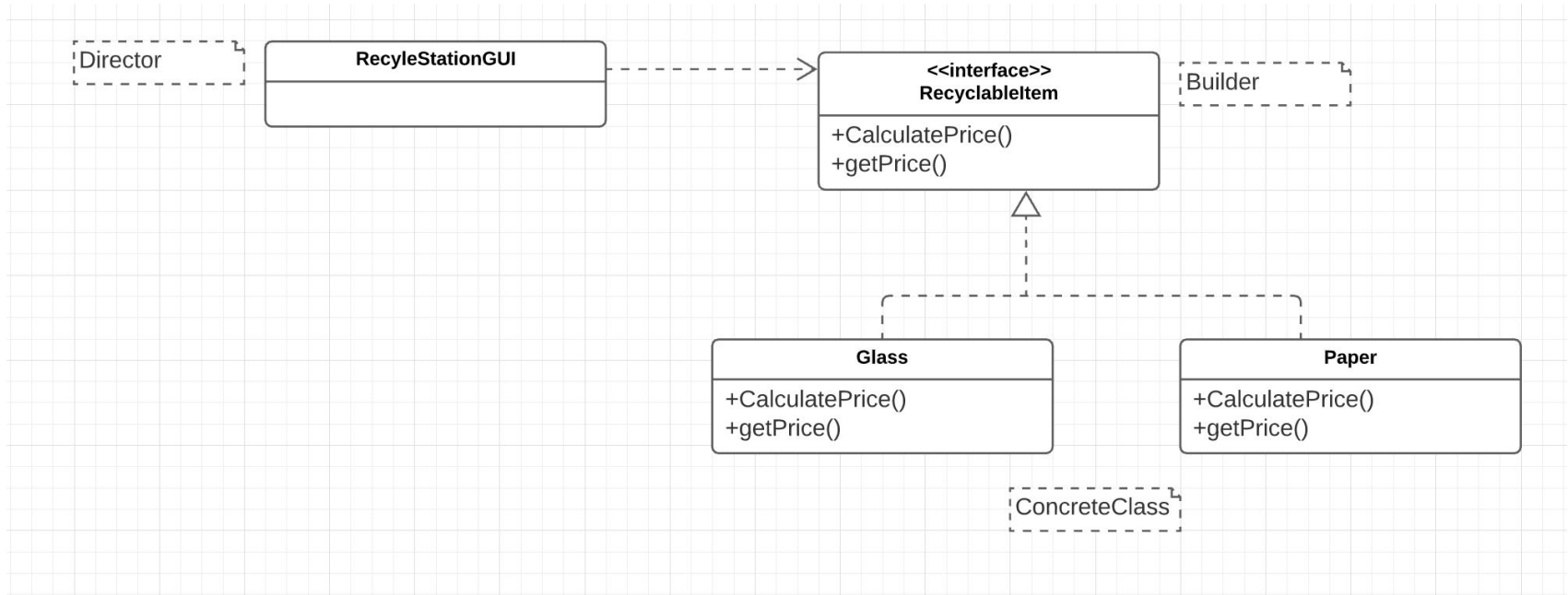


# Iterator

- To add RCM to Recycling Station
- To add Recyclable Items to RCM



# Builder Pattern



# Patterns

## FlyWeight Pattern:

- Sharable Items: Recycling Machine, Recyclable Items

## Facade :

- Admin GUI

**Thank You**