



GALWAY MAYO INSTITUTE OF TECHNOLOGY, DUBLIN
RD CAMPUS

ADVANCED OBJECT-ORIENTED DESIGN PRINCIPLES AND
PATTERNS ASSESSMENT I

Tomás O'Malley (G00361128)

Lecturer : Dr John Healy
Department of Computer Science

November 5, 2020

Chapter 1

Assignment

When Re-factoring the programme one massive principle that stands out is the Single Responsibility Principle. From assessing the UML diagram there is too much dependence on the class 'Alpha'. The design is tightly coupled to this class and must be decoupled to allow for basic abstraction and encapsulation. By abstracting the model and implementing an interface we can decouple this program and replace the Dependency Inversion Principle. My UML was developed using Draw.io and can be found underneath