







UML Diagrams Relationships

# CRC Cards

GUI	
Provide Graphical User Interface for the User to interact with the system.	RecordSystem Course Module

Course	
Stores a name, code and a list of modules for the course.	Module CLI GUI
Get and set the name and code.	
Add and remove modules to its list.	
Get a list of modules for the Course	

User	
Store common details shared by all user types such as Name, Address EmailAddress, username and password.	RecordSystem

StartRecordSystem	
Launches the chosen Interface for the User.	CLI GUI

Record System	
Store all Users, Courses and Modules	CLI GUI Course Module User Student Lecturer CourseDirector Admin
Provide Various methods to access above data	
Generates Reports for users.	
Handle Logins to the System	
Handle file I/O	
Acts as the intermediary between the Interfaces and the other objects in the system	

Grade	
Stores a Student and there grade.	Student
Get and Set the Student and grade.	
Check If Student has a passing grade.	

Admin	
Used to log into the Admin Interface.	

CourseDirector	
Stores the Course that Course Director is over.	Course
Get and set the Course.	
Get a List of students taking the course.	
Get a list of graduated students from the Course.	

CLI	
Provide Command Line Interface for the User to interact with the system.	RecordSystem Course Module

Module	
Stores a name, code and list of grades for the module.	Grade CLI GUI
Get and set the name and code.	
Add a new grade.	
Get a Students grade(s).	
Check if student has passed the Module.	

Lecturer	
Stores a list of all the modules the lecturer teaches.	Module
Can add and remove modules to the list.	

Student	
Stores a Student ID, and the course the Student is taking.	Course
Get Course and ID.	
Change ID	