**Method Contract**

|  |  |  |
| --- | --- | --- |
| Method Name: GetCourseByCourseID | Class Name: CourseList | ID: 2 |
| Clients (Consumers): Staff members | | |
| Associated Use Cases: Maintain Course | | |
| Description of Responsibilities: Return course information based on CourseID | | |
| Arguments Received:  ID String | | |
| Type of Value Returned: Course Object | | |
| Pre-Conditions:   1. CourseID not Null | | |
| Post-Conditions:   1. Return Course information of the submitted CourseID if CourseID is found 2. Return Null indicating No Matches if there are no matching courses. | | |

**Explanation**

The method contract for this particular contract was pretty straight forward. The method will receive the ID (or courseID) that is submitted by the staff member, and return the course information if found or the nothing if no matches are found. The Course ID is string based on the CRC Card.

**Method Specification**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Method Name: GetCourseByCourseID | | | | Class Name: CourseList | | | ID: 1 |
| Contract ID: 2 | | | | Programmer: Matt Ferry | | | Date Due: 04/18/2013 |
| Programming Language:  X Visual Basic Smalltalk C++ Java | | | | | | | |
| Triggers/Events: Staff member entering CourseID to search for a course | | | | | | | |
| Arguments Received:  Data Type: | | Notes: | | | | |
| ID String | | Course ID Entered by Staff member | | | | |
|  | |  | | | | |
|  | |  | | | | |
|  | |  | | | | |
| Messages Sent & Arguments Passed:  ClassName.MethodName: | | | | Data Type: | Notes: | |
|  | | | |  |  | |
| cousrseList:CourseList.GetCourseByCourseID(CourseID) | | | | Object |  | |
|  | | | |  |  | |
|  | | | |  |  | |
|  | | | |  |  | |
|  | | | |  |  | |
|  | | | |  |  | |
|  | | | |  |  | |
| Argument Returned:  Data Type: | | Notes: | | | | |
| Course Object | |  | | | | |
| Algorithm Specification:  Accept CoruseID to search for current courses.  If CourseID is found return Course  Else Return null value to indicate no matching courses found. | | | | | |

**Explanation**

The Method specification was also fairly straight forward, as the majority of this information was pulled directly from the Contract.

The trigger/event is that of a staff member entering a CourseID to search by.

The Message & Arguments Passed : classname.methodname I listed that as courseList:CourseList.GetCoursebyCourseID , because the object in the sequence diagram was listed as courseList:CourseList .

The algorithm step was also straight forward as the method is only performing one function of locating courses that match the supplied course ID.