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Damani Poyser -

**Object Oriented Analysis:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Potential Class** | **Retained Information** | **Needed Services** | **Multiple Attributes** | **Common Attributes** | **Common Operations** | **Essential Requirements** | **Accepted As Class** |
| 1. Programme | Code, course name, award, accreditation, maximum number of courses | Setters and getters for code, course name, award, accreditation, maximum number of courses | Parent class to many that contain similar attributes | Code, course name, award, accreditation, maximum number of courses | Constructors of Programme class whether copy, default or primary | - | Yes |
| 1. Certificate | Courses information, along with inherited attributes | Constructor of the parent class, along with setters and getters for courses information | Child class to the Programme class | Courses information | Constructor for the parent class enclosed in the constructor for this Certificate class | - | Yes |
| 1. Associates | Courses information associated with an Associates, along with inherited attributes | Constructor of the parent class, along with setters and getters for courses. | Child class to the Programme class | Courses information | Constructor for the parent class enclosed in the constructor for this Associates class | - | Yes |
| 1. Course | Code, name, description, credits, prerequisites, cost | Setters and getters for code, name, description, credits, prerequisites, cost | This course class implements the java serializable interface | Code, name, description, credits, prerequisites, cost | Constructors of Course class whether copy, default or primary | - | Yes |
| 1. Staff | Staff ID, password, faculty, date employed, department, first and last name | Setters and getters for staff ID, password, faculty, date employed, department, first and last name | This staff class implements the java serializable interface | Staff ID, password, faculty, date employed, department, first and last name | Constructors of Staff class whether copy, default or primary | - | Yes |
| 1. Date | Day, month, year | Setters and getters for day, month, and year | This class is used as an attribute in other classes as necessary | Day, month, year | Constructors of Date class whether copy, default or primary | - | Yes |
| 1. Diploma | Courses information, along with inherited attributes | Constructor of the parent class, along with setters and getters for courses information | Child class to the Programme class | Courses information | Constructor for the parent class enclosed in the constructor for this Diploma class | - | Yes |
| 1. Student | Student ID, address, faculty, date enrolled, programme code, enrolment status, courses, contact number, first and last name | Setters and getters for student ID, address, faculty, date enrolled, programme code, enrolment status, courses, contact number, first and last name | This student class implements the java serializable interface | Student ID, address, faculty, date enrolled, programme code, enrolment status, courses, contact number, first and last name | Constructors of Student class whether copy, default or primary | - | Yes |
| 1. Administrator | Password, administrator information | Setters and getters for password |  | Password, administrator information | Constructors of Administrator class whether copy, default or primary | - | Yes |
| 1. FileProcess | Writer and reader objects, staff list | Methods related to writing to and retrieving from the file | This class handles files | Writer and reader objects, staff list |  | - | Yes |

**Work Breakdown Schedule**

This group consists of three members who all took on different tasks in the project. The details of which may be seen below.

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| --- | --- | --- | --- |
| **Tasks** | **Carlisle Welsh** | **Willroy Myles** | **Damani Poyser** |
| Object Oriented Analysis and Design (Class Selection Characteristics and UML Diagrams) | ✓ | ✓ | ✓ |
| Coding (Functionality Coding) | ✓ | ✓ | ✓ |
| Graphical User Interface Coding | ✓ | ✓ | ✓ |

Everyone in this group participated in the successful execution of this project and in the different tasks each member contributed in a different way. For instance, in the Object Oriented Analysis and Design, Carlisle Welsh worked on putting it together initially and both Damani Poyser and Willroy Myles reviewed the work and gave recommendations and added to the overall documentation. In terms of coding Willroy Myles was involved with writing the Java code with Damani Poyser with the intent of creating objects and populating the database with the appropriate data, while Carlisle Welsh reviewed the code and added his suggestions as well. Overall, the project was worked on over the course of multiple weeks with the workload split among three individuals as seen above.