Data dictionary

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| Entity Object | Attributes / Associations | Definition |
| Report | * Record | * A report containing records that displays the requested information for the Admin |
| Record |  | * An object that represents an entry in a report |
| RevenueRecord | * Period * Revenue | * A record that shows revenue for a requested period |
| RevenueTermDetailedRecord | * Term * Course * Total | * A record that shows revenue for a requested period but grouped by course |
| FrequentContentRecord | * Content Title * Course * Number of Purchases * Revenue | * A record that shows which content is the most frequently purchased |
| FrequentBuyersRecord | * Student Name * Student ID * Number of Purchases * Total Spent | * A record that shows which students are the most frequent buyers |
| FrequentTypeRecord | * Type of Content * Total Sold * Revenue | * A record that shows the revenue and the quantity by content type, i.e. textbooks, chapters, sections |

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| Entity Object | Attributes / Associations | Definition |
| [OB-01] User | * Name * Username * Password | A user who can access the cuTPS system.  *Refs:* [UC-01], [UC-02] |
| [OB-02] Admin |  | A user object that manages system data including user accounts and courses.  *Refs:* [UC-03], [UC-04] |
| [OB-03] ContentManager |  | A user object that manages content data as well as courses.  *Refs:* [UC-02] |
| [OB-04] Student | * Student Number * Shopping Cart * Course List | A user object that can view and purchase content for the courses they are registered in.  *Refs:* [UC-01] |
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| [OB-05] Course | * Course Number * Course Name | An object that can be associated with a Student that allows the student to see content from that course.  *Refs:* [UC-04], [UC-17], [UC-18], [UC-19], [UC-20], [UC-01] |
| [OB-06] ShoppingCart | * Content List | An object that contains a list of content that a Student wishes to purchase.  *Refs:* [UC-01], [UC-07], [UC-09], [UC-10], [UC-11] |
| [OB-07] BillingInfo | * Credit Card Number * Credit Card Expiry Date * Credit Card Name * Credit Card Security Code * Address * Email Address | An object that contains the billing information for a student that is required to complete a purchase.  *Refs:* [UC-09], [UC-10] |
| [OB-08] Content |  | An object that can be purchased by a student.  *Refs:* [UC-01], [UC-02], |
| [OB-09] Textbook | * Title * ISBN * Publisher * Author(s) * Year Published * Edition * Chapter List | A Content object representing a textbook that can be purchased by a Student  *Refs:* [UC-02] |
| [OB-10] Chapter | * Chapter Number * Chapter Name * Parent Textbook * Section List | A Content object representing a chapter that can be purchased by a Student.  *Refs:* [UC-02] |
| [OB-11] Section | * Section Number * Section Name * Parent Chapter | A Content object representing a Section that can be purchased by a Student.  *Refs:* [UC-02] |
| [OB-12] Invoice | * Content list * Student * Billing information | Contains information about a processed order to be given to the Email System and stored in cuTPS.  *Refs:* [UC-10] |
| Report | * Title | An parent object that is used |
| RevenueRecord | * Year * EarnedRevenueForYear |  |
| RevenueTermDetailedRecord | * SemesterPeriod * EarnedRevenueForSemester |  |
| FrequentTypeRecord | * Publisher * EarnedRevenueForPublisher |  |
| FrequentBuyersRecord | * CourseID * Instructor * EarnedRevenueForCourse |  |