**Data Dictionary Template**

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| **Entities** | | | | |
| Entity  Name | Weak Entity? | Description | Aliases/ Synonyms | Comments |
| Users | No | List of users | Users | List of users with accounts created in the database |
| Department | No | List of departments | Departments | List of departments at UC college |
| Submission | Yes | List of Submitted files | Submissions | List of submitted files for the repository |
| UserType | No | List of user types | User Types |  |

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| Attribute  Name | Associated Entity  or Relationship | Multi-valued? | Required? | Description | Nulls  Allowed? | Composite?  If yes, list the other attributes that compose it. | Length | General  Data Type | Validation  Criteria | Default Value | Aliases/ Synonyms | Comments |
| userID | Submission and Users | No | Yes | User primary Key | No | Yes | 4 | AutoNumber | No | No |  |  |
| lname | Users | No | Yes | User last name | No | No | 250 | Text | No | No |  |  |
| fname | Users | No | Yes | User first name | No | No | 250 | Text | No | No |  |  |
| EmailAddress | Users | No | Yes | User email address | No | Yes | 250 | Text | Yes | No |  |  |
| createDate | ALL Entitiies | No | Yes | Date the submission is created | No | No | 25 | Date | No | No |  |  |
| updateDate | ALL Entitiies | No | Yes | Date the submission is updated | No | No | 25 | Date | No | No |  |  |
| deptID | Department and Users | No | Yes | Department primary Key | No | No | 4 | Text | No | No |  |  |
| phoneNumber | Users | No | No | User phone number | Yes | No | 13 | Text | Yes | No |  |  |
| passwordVerification | Users | No | Yes | User password verification | No | No | 50 | Text | No | No |  |  |
| password | Users | No | Yes | User password | No | No | 50 | Text | No | No |  |  |
| deptName | Department | No | Yes | Department name | No | No | 50 | Text | No | No |  |  |
| Semester | Department | No | Yes | Semester the submission was submitted | No | No | 50 | Text | No | No |  |  |
| subId | Submissions | No | Yes | Submission Primary Key | No | No | 4 | AutoNumber | No | No |  |  |
| Rating | Submissions | No | No | Rating of the submission | No | No | 5 | Double | No | No |  |  |
| Comments | Submissions | No | No | Submission Comments | No | No | 250 | Text | No | No |  |  |
| willYouGrade | Submissions | No | No | Will the submission be graded | No | No | 2 | Boolean | No | No |  |  |
| rubricFileName | Submissions | No | No | File name of rubric | No | No | 250 | Text | No | No |  |  |
| studentInstructorFileName | Submissions | No | No | Student instructions | No | No | 250 | Text | No | No |  |  |
| |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | instructorInstructorFileName | Submissions |  | No | Student instructions | No |  | 250 | Text |  |  |  |  | | Submissions | No | No | Instructor instructions | No | No | 250 | Text | No | No |  |  |
| userTypeID | UserType | No | Yes | User Type Primary Kety | No | Yes | 4 | AutoNumber | No | No |  |  |
| userTypeName | userType | No | Yes | Type of user | No | No | 250 | Text | No | No |  |  |
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| **Relationships** | | | | | | | |  |
| Relationship  Name |  | Description | Aliases/ Synonyms | Comments | Left Entity  Involved in Relationship | Right Entity  Involved in Relationship | Left Entity Participation  ( n .. m) | Right Entity Participation  ( n .. m) |
| Submissions has Departments |  | Submissions has one to many Departments | No |  | Submissions | Departments | 0:\* | 1:1 |
| Users has Submissions |  | User has zero to many Submissions | No |  | Users | Submissions | 1:1 | 0:\* |
|  |  |  |  |  |  |  |  |  |

Relationships may appear multiple times in the Relationships Table: a 3-way relationship will appear two times.

Entities are nouns, relationships are verbs.