Course: IST-659

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Homework #2

Due Date: 4/8/2020

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Topic: Lab02 – Conceptual modeling

## Part-1: Conceptual Modeling Case Studies

### Case Study 1 – Obligatory College Classes Modeling

Below is the ERD based on the requirements defined in the Lab-02 guide:

A close up of a map

Description automatically generated

### Case Study-2: Project Management

Below is the ERD based on the requirements defined in the Lab-02 guide:

A screenshot of a cell phone

Description automatically generated

### Case Study-3: Book Publishing Database

Based on definition and requirements defined mustered up the following Entity, attribute and relationships:

|  |  |
| --- | --- |
| **Entity** | **Attribute** |
| Publisher | Name  Mailing address  Telephone# |
| Book | ISBN  Title  Price  Number of pages |
| Author | Name  Address |
| Check | Check#  Date  Amount |
| **Relationships** | |
| * A publisher publishes one or more books; A book is published by exactly one publisher * Each book is written by one or more authors * An author receives a separate royalty check for each book he or she writes | |

Below is the corresponding ERD:

A close up of a map

Description automatically generated

## Part-2: Vidcast Conceptual Model

|  |  |
| --- | --- |
| **Entity** | **Attribute** |
| User | Username[r]  Email[r]  Description  Web-URL |
| Tag | Tag  Description |
| Vidcast | Title[r]  Start Date  Start Time  Projected Duration  Actual Duration[d]  Recording URL  Status |
| **Relationships** | |
| * Each user can have many other users as followers and can, in turn, follow many other users * Each vidcast is made by exactly one user, but each user can optionally create many vidcasts * To help users find one another, each user can add categorizing tags to their profile. Each of these tags can be applied to many other users as well. | |

Below is the corresponding ERD:

A close up of a map

Description automatically generated