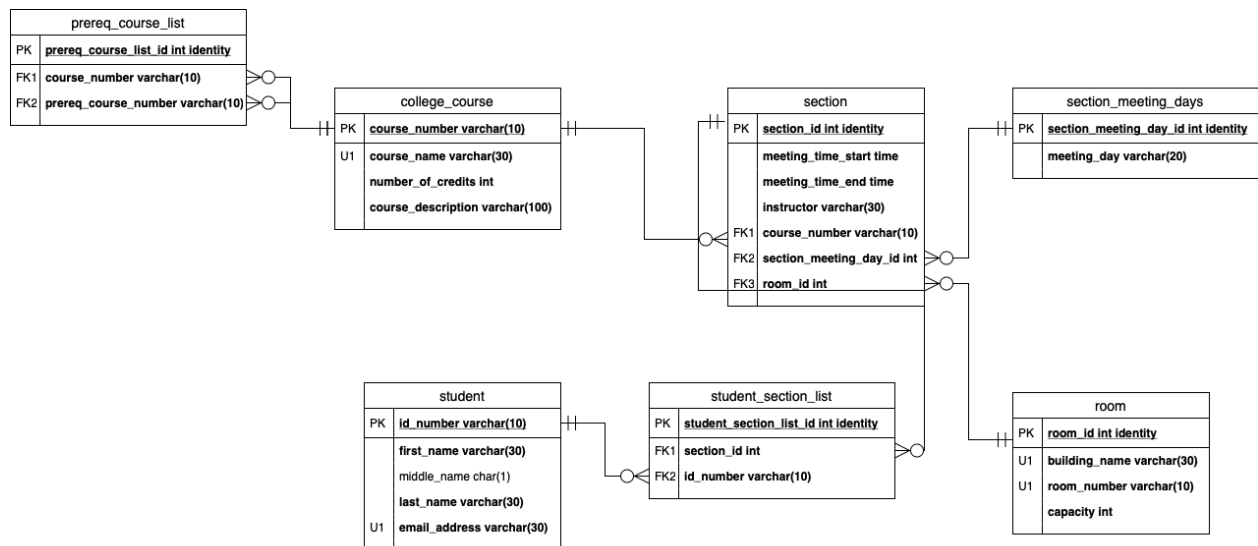


Course: IST-659  
Name: Sharat Sripada  
Homework #3  
Due Date: 4/15/2020  
Date Submitted: 4/20/2020  
Topic: Lab03 – Logical modeling

## Part-1: Conceptual Modeling Case Studies

### Case Study 1 – Obligatory College Classes Modeling

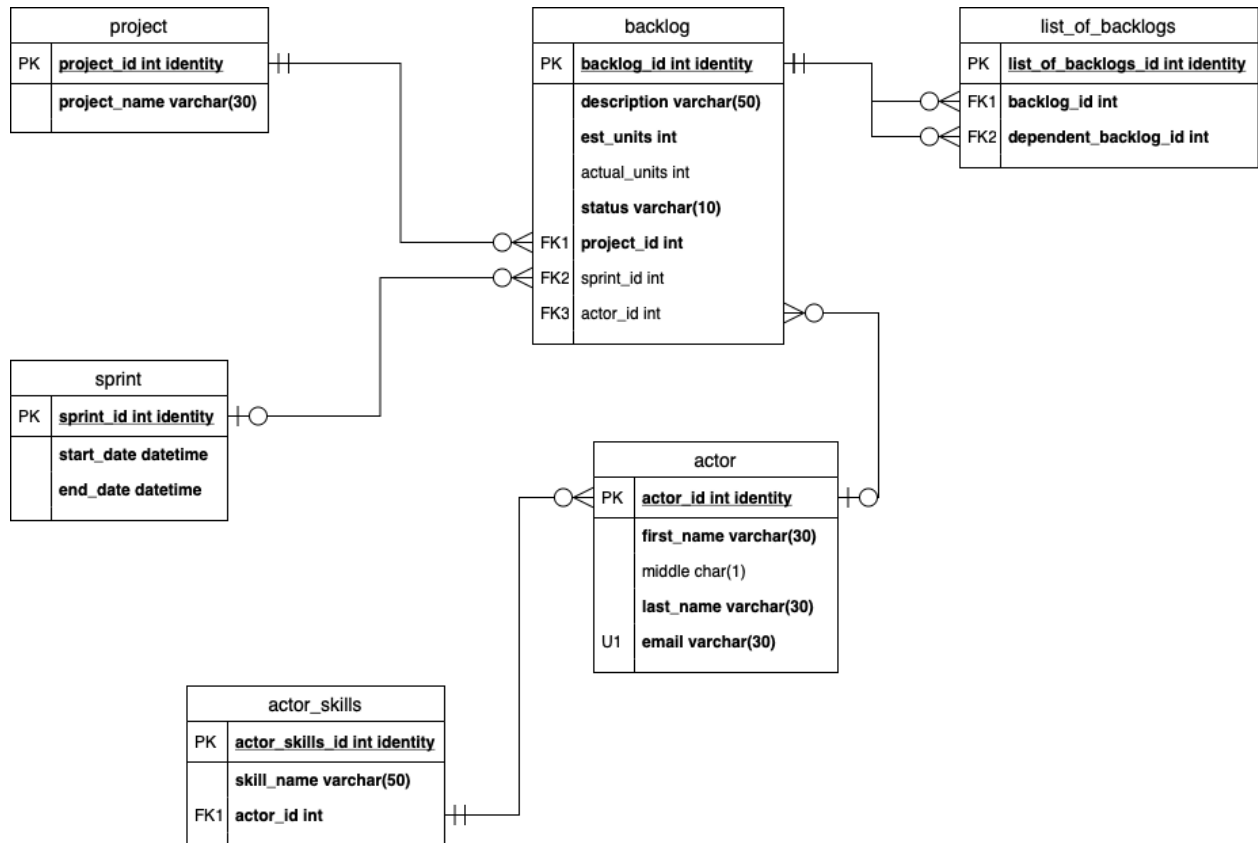
Below is the E-ERD based on the procedure/ERD defined in the Lab-03 guide:



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## Case Study-2: Project Management

Below is the E-ERD based on the ERD defined in the Lab-03 guide:



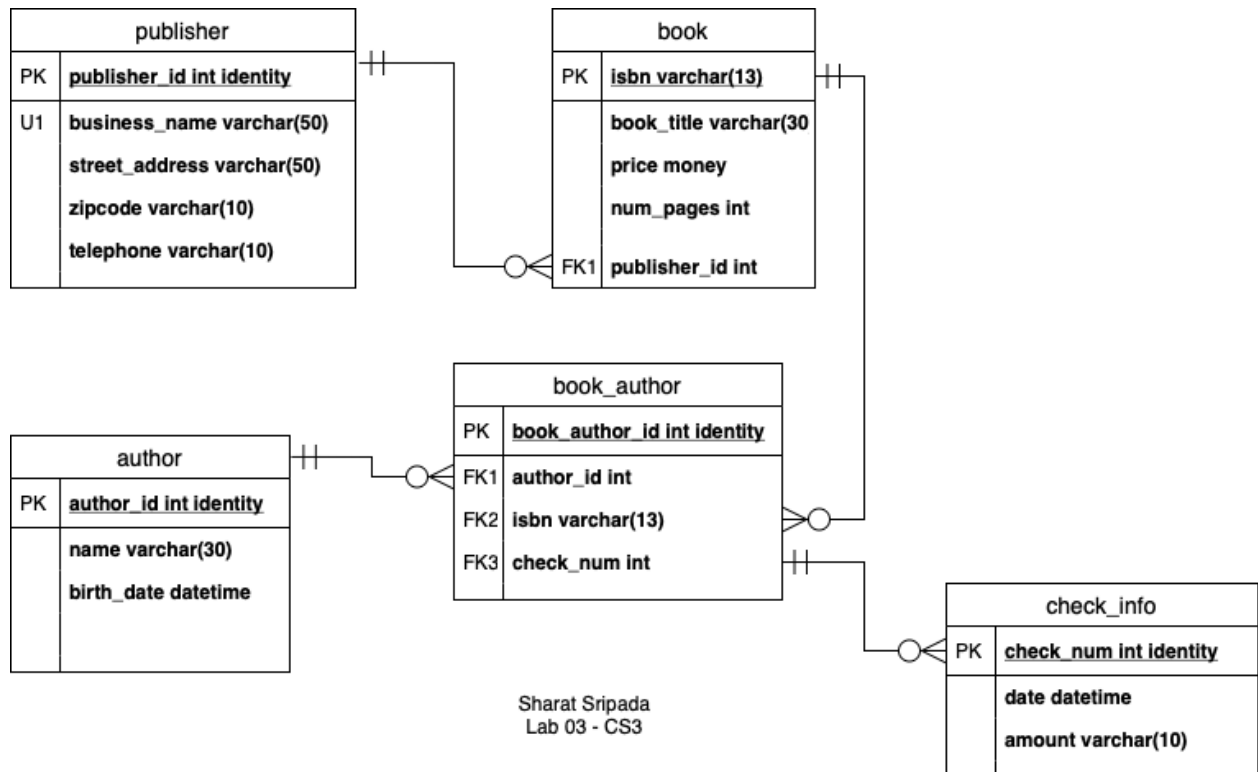
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### NOTE

In the Actor entity, attribute Skills is [m] or multi-valued. Correspondingly, a new table actor\_skills was created for this purpose. Based on the async session, the relationship shall be one to the new table and many to the original table but this different in the Lab-03 guide.

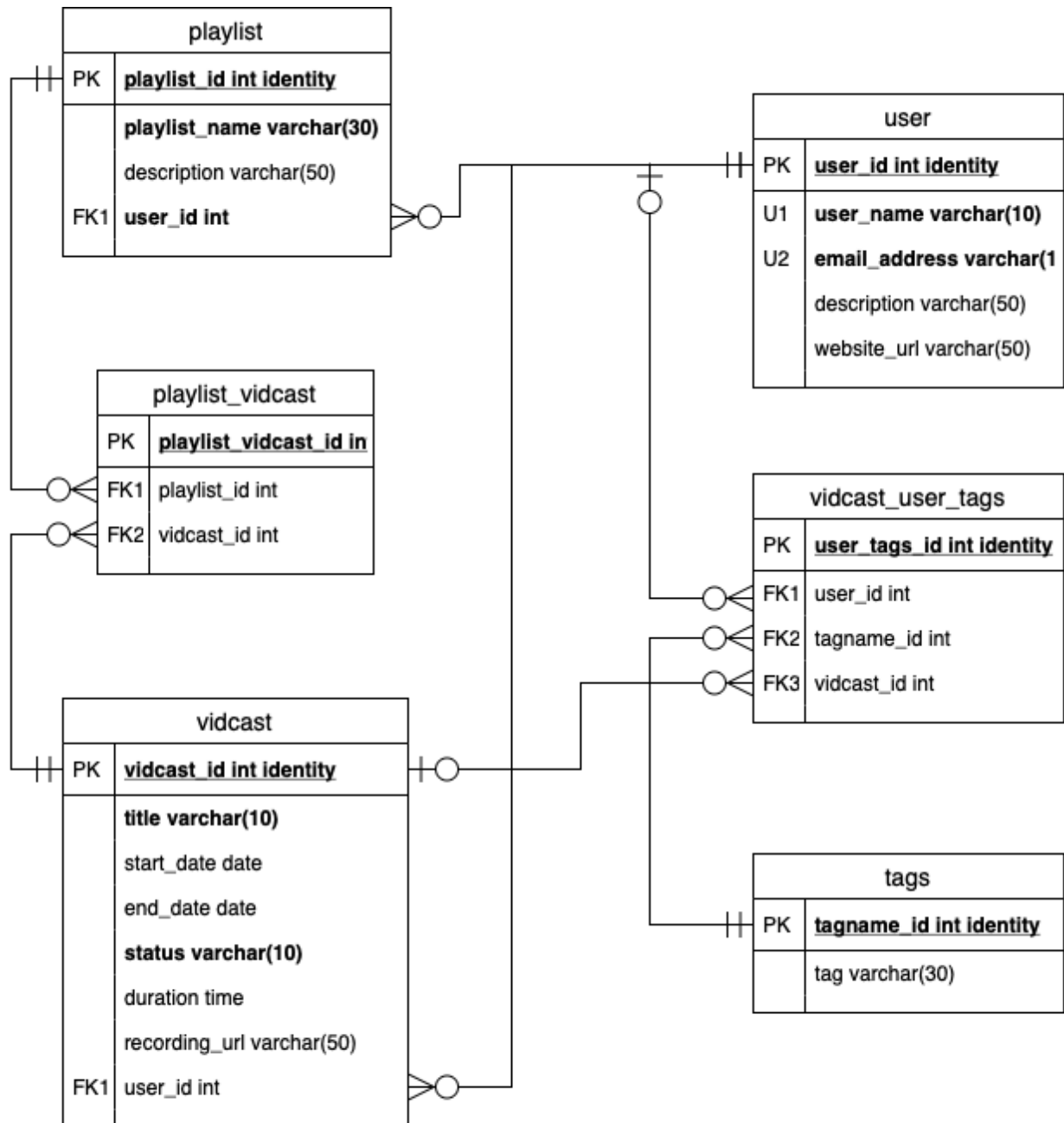
## Case Study-3: Book Publishing Database

Based on ERD in Lab-03 guide below is the E-ERD:



## Part-2: Vidcast Conceptual Model

Based on ERD in Lab-03 guide below is the E-ERD:



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Lab 03 - Part2

#### NOTE

Converted all the many-many relationships to one-many (or many-one):

1. Playlist to Vidcast is many-many relationship – Inserted bridge or associative table playlist\_vidcast
2. User to tags OR Vidcast to tags were many-many relationship – Inserted bridge or associative table vidcast\_user\_tags to link vidcast/user tables to it.