**Entities:**

User

Course

Section

Lesson

Contents

Authors

**Relationships:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity** | **Relationship** | **Entity** | **Mapping table** |
| User | \*->\* | Course | Yes |
| Course | 1->\* | Section | No |
| Section | 1->\* | Lesson | No |
| Author | \*->\* | Course | Yes |
| Course | 1->\* | Contents | Yes |
| Section | 1->\* | Contents | Yes |
| Lesson | 1->\* | Contents | Yes |

**Entity Definition:**

|  |  |
| --- | --- |
| **Entity** | **Definition** |
| User | Id  FirstName  LastName  Age  CreatedAt  UpdatedAt |
| Course | Id  ParentId  Name  Description  Duration  State  Price  CreatedAt  CreatedBy  UpdatedAt  UpdatedBy |
| Section | Id  ParentId  CouseId  Name  Description  State  Duration  Order  CreatedAt  CreatedBy  UpdatedAt  UpdatedBy |
| Lesson | Id  ParentId  SectionId  Name  Description  State  Order  CreatedAt  CreatedBy  UpdatedAt  UpdatedBy |
| Contents | Id  Type  Value  Description  CreatedAt  CreatedBy  UpdatedAt  UpdatedBy |
| Author | Id  FirstName  LastName  About  CreatedAt  UpdatedAt |

Status Flow:

1. Created
2. Draft
3. Merged
4. Saved
5. Published
6. Removed

APIs:

1. Fetch all courses
2. Create user
3. Fetch course
4. Create draft course
5. Publish course