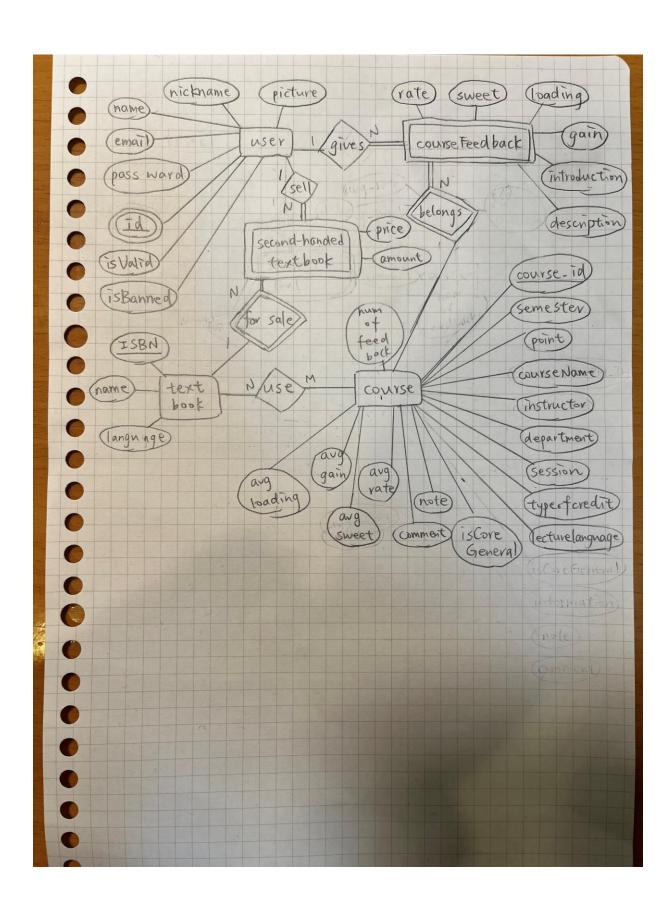
ER Model & Relational Schema設計報告

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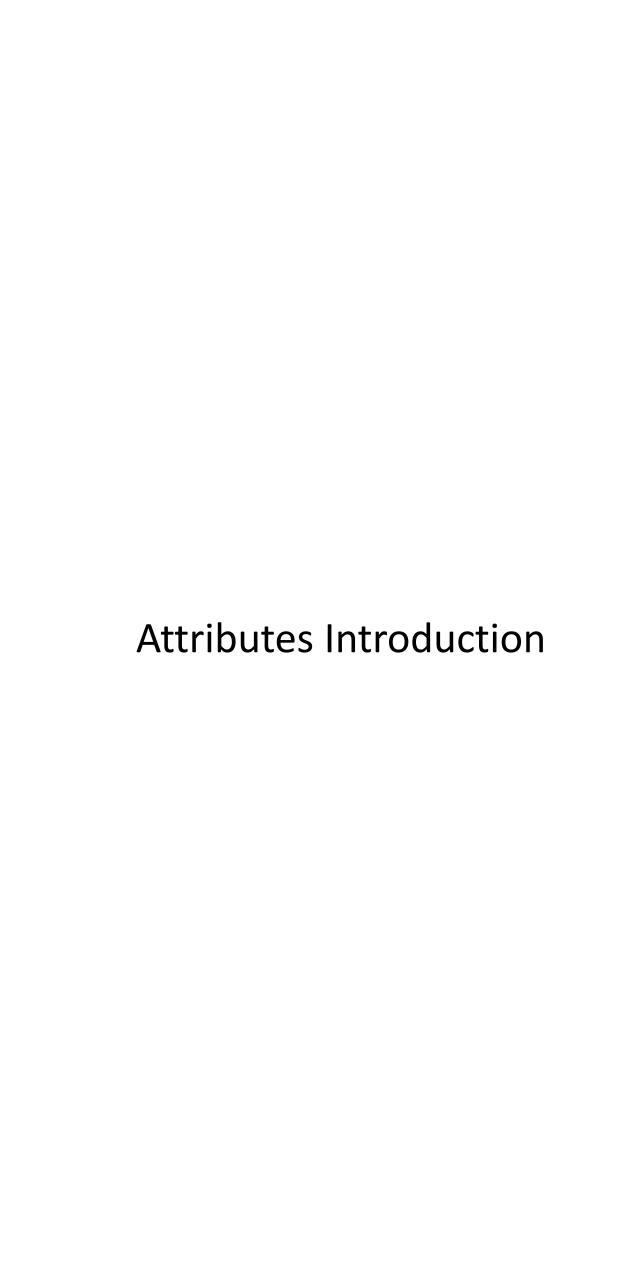
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ER Model



Relational Schema

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thumbups
course feed pack.
id c rate sweet bading gain introduction description user usernickname course course somester
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course Resource.
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to the Brook
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ISBN name language



user

JS user.js > ...

```
import mongoose from "mongoose";
     //使用者table
     const userSchema = mongoose.Schema({
       id: { type: String ,unique:true}, //primary key
       token: { type: String ,unique:true}, //google api 回傳的此使用者的代碼(驗證用)
       name: { type: String, required: true }, // (取自google api)
email: { type: String, required: true }, // (取自google api)
       password: { type: String, required: true }, //如果是使用google api登入的,則此欄位為空
       picture: { type: String }, // 人物頭像圖(取自google api)
       nickname: { type: String },// 暱稱
11
       loginChannel: { type: String }, //使用者的登入管道
       isValid: { type: String }, //是否通過信箱驗證
       isBanned: { type: String }, //是否被ban
       likes:[String], //使用者收藏的課程id陣列
       thumbups:[String] //使用者按讚的評價(feedback)id陣列
     export default mongoose.model("User", userSchema);
```

userPost

```
JS userPost.js > ...
     import mongoose from 'mongoose';
 3 ∨ const postSchema = mongoose.Schema({
         id:String, //PK
         title: String, //標題
         message: String, //內文
         name: String, //使用者名稱
         creator: String, //使用者id (FK)
         selectedFile: String, //貼文圖(只有一張)(<16mb的檔案在mongodb裡可用字串存)
10
         num of likes: Number,//讚數
         comments: { type: [String], default: [] }, //留言陣列
         createdAt: {
12 🗸
             type: Date,
             default: new Date(),
15
     })
     var PostMessage = mongoose.model('PostMessage', postSchema);
     export default PostMessage;
```

course

```
import mongoose from 'mongoose';
const { Schema } = mongoose;
const courseSchema = mongoose.Schema({
     id: { type: String ,unique:true }, //primary key()
     semester: { type: String }, //學期(共四碼:)e.g. "1101"代表110學年上學期 前三碼代表學年 第四碼代表上或下學期 code: { type: String }, //由政大編碼的九碼課程id (取自課程查詢下載的excel檔) point: Number, //學分 (取自課程查詢下載的excel檔)
     courseNameZH_TW: { type: String }, //課程名稱(中文) (取自課程查詢下載的excel檔)
     courseName: { type: String }, //課程名稱 (取自課程查詢下載的excel檔) instructorZH_TW: { type: String }, //教師名稱 (取自課程查詢下載的excel檔)
     instructor: { type: String }, //教師名稱 (取自課程查詢下載的excel檔)
     departmentZH_TW: { type: String }, //開課單位 (取自課程查詢下載的excel檔)department: { type: String }, //開課單位 (取自課程查詢下載的excel檔)
     sessionZH_TW: { type: String }, //上課時段 (取自課程查詢下載的excel檔)
     session: { type: String }, ////上課時段 (取自課程查詢下載的excel檔)
     classroom: { type: String }, ///上課教室 (取自課程查詢下載的excel檔) typeOfCredit: { type: String }, // (取自課程查詢下載的excel檔) lectureLanguage: { type: String }, //教學使用語言 (取自課程查詢下載的excel檔) isCoreGeneral: { type: String }, //是否為核心通識 (取自課程查詢下載的excel檔) information: { type: String }, //詳細資訊 (取自課程查詢下載的excel檔) note: { type: String }, //課程註解 (取自課程查詢下載的excel檔)
     comments: { type: [String], default: [] }, //此課程的評價陣列
     avg_rate:Number, //此課程的平均評價
avg_sweet:Number, //此課程的平均甜度
     avg_loading:Number, //此課程的平均涼度
     avg_gain:Number,//此課程的平均收穫
     num_of_feedback:Number, //此課程的評價數
type:{ type: String }, //此課程的種類:有以下幾種["DEPARTMENT","GENERAL","INTEGRATED","PE","ND"]
     subType:{ type: String }, //此課程的子種類 列舉如下
     // type為"DEPARTMENT" 的有以下幾種subtype:["CHINESE","COMPUTER_SCIENCE"...]
// type為"GENERAL" 有以下幾種subtype:["SOCIAL","HUMANITY","ENGLISH"...]
     // type為"ND"(國防) 目前沒有subtype subtype值為""
short_code:{ type: String } //此課程的短id code的前三碼
})
var Course = mongoose.model('Course', courseSchema );
export default Course;
```

courseFeedBack

```
JS courseFeedBack.js > ...
      import mongoose from 'mongoose';
     const courseFeedBackSchema = mongoose.Schema({
         id:String, //(PK)
         rate: Number, //評價
         sweet: Number, //甜度
         loading: Number, //涼度
         gain: String, //收獲
         introduction: String, //懶人包
         description: String, //評價內容
         user: String, //使用者id
         user_nickname: String, //使用者暱稱
12
         course: String, //課程id (FK)
13
         course semester: String, //e.g. "1101"
         course_code: String, //由政大編碼的九碼課程id
15
         num of thumbsup: Number, //按讚數
         createdAt: {
             type: Date,
             default: new Date(),
         },
         updatedAt: {
             type: Date,
             default: new Date(),
         }
25
      })
26
     var CourseFeedBack = mongoose.model('CourseFeedBack', courseFeedBackSchema );
     export default CourseFeedBack;
```

courseResource

```
JS courseResource.js > ...
      import mongoose from 'mongoose';
 1
      const CourseResourceSchema = mongoose.Schema({
        id:String, // (PK)
        introduction: String, //懶人包
        description: String, //課程資源描述
        user: String,//使用者id (FK)
       user nickname: String, //使用者暱稱
        file_photo:String, //封面照
10
        file1: String, //檔案1
        file2: String, //檔案2
11
        file3: String, //檔案3
12
       course: String, //課程id (FK)
13
        course_semester: String, //學期(4碼) e.g."1101"
       course_code: String, //科目代碼
15
       num of thumbsup: Number, //按讚數
        createdAt: {
            type: Date,
            default: new Date(),
        },
21
        updatedAt: {
          type: Date,
          default: new Date(),
24
25
      })
     var CourseResource = mongoose.model('CourseResource', CourseResourceSchema);
29
      export default CourseResource;
```

textbook