**RateMyCourses**

**Group members:**

Sihong Lin

Jiayi Guo

Ziheng Zhu

Yinuo Lu

Bofei Wang

Collections

**User**

User: {

“userID”: ObjectId(“624724bf974aef308ff7cc6a”),

“userName”: “JustAStudent”

“CourseReviews”: [ "62215a7ebd69a360a6193418", "62215a7ebds9a460a6193418"]

“ProfessorReviews”: [ "62215a7ebd69a360as193418", "62213a7ebds9a460a6193418" ]

“Restrict Status”: false,

“Profile Picture”: “<https://static01.nyt.com/images/2021/09/14/science/07CAT-STRIPES=webp>”

“role”: student

}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| **userID** | **ObjectId** | Globally unique identifier  to represent the professor |
| **userName** | **String** | Name of the user |
| **CourseReviews** | **Array of CourseReview ID** | Collection of all the course review worte by the user |
| **ProfessorReviews** | **Array of ProfessorReview** | Collection of all the professor review worte by the user |
| **Restrict Status** | **Boolean** | Boolean flag indicates whether the user can write review |
| **Profile Picture** | **String** | Url of the picture |
| **role** | **String** | Role is either student or admin  Student role allow read/create/delete review/rating to courses/professors  Admin role allow insert new course and professor or delete Malicious comments created by student |

**Course**

{

"\_id": "62222e3457e362991824996e",

"course": "CS 546 Web Programming",

"academicLevel": "Graduate",

"courseOwner": "Computer Science Program",

"type": "Core",

"gradingBasis": ["Audit", "Graded", "Pass/Fail"],

"units": 3,

"description": "This course will provide students with a first strong approach of internet programming. It will give the basic

knowledge on how the Internet works and how to create advanced web sites by the use of script languages,

after learning the basics of HTML. The course will teach the students how to create a complex

global site through the creation of individual working modules, giving them the skills required

in any business such as proper team work and coordination between groups.",

"typicalPeriodsOffered": ["Fall Semester", "Spring Semester", "Summer Session"],

"instructionalFormats": "Lecture",

"syllabus": "https://web.stevens.edu/academic\_files/courses/syllabus/CS546syl.pdf",

"courseware": "https://github.com/graffixnyc/CS-546",

“count”: {

{ difficulty: { Easy: 0, Medium: 0, Hard: 0 },

chanceToGetA: { Low: 0, Medium: 0, High: 0 },

workLoad: { Less: 0, Medium: 0, Plenty: 0 } }

},

"metrics": {

"difficulty": "Medium",

"chanceToGetA": "High",

"workLoad": "Hard"

},

"courseReview": ["62222e3b57e362991824996f",

"62222e4a57e3629918249970"]

}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | ObjectId | Globally unique identifier  to represent the course |
| course | String | Name of the Course |
| academicLevel | String | course academica level, such as undergraduate, graduate |
| courseOwner | String | Major Program |
| type | String | Elective course or Core course |
| gradingBasis | Array | Grading mode |
| units | Number | course total credits |
| description | String | Introduction about the detail of the course |
| typicalPeriodsOffered | Array | Term(s) that the course is offered |
| instructionalFormats | String | Teaching way |
| syllabus | String | Url of the syllabus |
| courseware | String | Url of the resource that are designed to be used to teach the course |
| metrics | subdocument | An object contains the metrics s of the course |
| courseReviews | Array of courseReview objectId | Collection of all the review for this course |

**CourseReview**

{

"\_id": "62516e3457e374621824976a",

"userId": "62222e4a57e3629918249970",

"courseId": "62222e3457e362991824996e",

"comment": "The lectures are quite easy to understand and so are the Labs. Only need to make sure that

you are not careless while working on labs or else you'll lose points and that is something that the professor

is always clear about. If you dedicatedly work on the labs and the project, you can easily score an A. Best

professor at Stevens.",

"metrics": {

"difficulty": "Medium",

"chanceToGetA": "High",

"workLoad": "Hard"

}

}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | ObjectId | Globally unique identifier  to represent this course review |
| userId | String | User id who wrote this review |
| courseId | String | Course id |
| comment | String | Comment text |
| metrics | subdocument | An object contains the metrics s of the course |

**Professor**

Professor: {

“\_id”: ObjectId(“624724af974aef308ff7cc6a”),

“professorName”: ​​“Patrick, Hill”,

“Introduction”: “Professor in the **Computer Science department** at [**Stevens Institute of Technology**](https://www.ratemyprofessors.com/campusRatings.jsp?sid=982)”

“rating”: 4.5,

“reviews” : ["62215a7ebd69a460a6193411", "62215a7ebd69a460a6193412"],

“courses” : ["62215a7ebd69a460a6193413", "62215a7ebd69a460a6193414"]

}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | Description |
| **\_id** | **ObjectID** | Globally unique identifier  to represent the professor |
| **professorName** | **String** | Name of the professor |
| **rating** | **number** | Overall rating of the professor |
| **courses** | **Array of course objectId** | Courses taught by the professor |
| **reviews** | **Array of professor review objectId** | Collection of all the review for this professor |
| **picture** | **String** | Professor picture url |

**ProfessorReview**

ProfessoReview: {

“\_id”: ObjectId(“624724af974aef308ff7cc6b”),

“userId”: "62215a7ebd69a460a6193418",

“professorId”: "624724af974aef308ff7cc6a",

“comment”: “At first I thought Hill was super arrogant, and was about to give a low score. But now, having taken both CS546 and CS554, I think that these classes prepared me more than anything for the workforce. Even if the assignments can be a heavy load at times, nothing ever felt unfair. I've also thought Hill is likable now, despite my initial reaction.”

“rating”: 5

}

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| **\_id** | **ObjectId** | Globally unique identifier  to represent the review |
| **professorId** | **string** | The professor Id that comment is replaying to |
| **userId** | **string** | The user id that write this comment |
| **comment** | **string** | Student comment for the professor |
| **rating** | **number** | The rating that the user provided, range between(1-5) |