Team NEA   NoSQL Database Schema (Firebase)


```
USERS{
    "user_id_1":{
        "user_name": "example",
        "availability": "Available",
        "bio": "I am a user example",
        "first_name": "example_fi",
        "last_name": "example_la",
        "gender": "Male",
        "profileCreated": "true",
        "room_ids": [room_ids],
        "courses": [courses],
        "interests": [interests],
        "tags": [tags]
    }
}
```

```
INTERESTS{
    "Arts": "1",
    "Comics": "5",
    "Economics": "5",
    "Engineering": "6",
    "Games": "5",
    "History": "6",
    "Literature": "3",
    "Movies": "7",
    "Music": "4",
    "Politics": "5",
    "Religion": "3",
    "Science": "8",
    "Sports": "6",
    "Technology": "5",
    "Travel": "8"
}
```

```
COURSES{
    "Course1": "CSE 110",
    "Course2": "CSE 101",
    "Course3": "CSE 105",
    "Course4": "CSE 100"
}
```

Note:
Shape:
Double arrow: Reachable from both A to B and B to A.
Single arrow: Reachable from one to the other, single direction.
[ ]: Array.

Color of arrow:
Blue: Firebase id as the key, fixed shape.
Red: Expansion of a list, user can append new element inside the list.

In the actual database, the id and time are in the form of firebase hash value. For simplification, I use integer values as id here.

The courses, interests and tags are nested in user object, for a clean layout, I put them outside of the user.

```
ROOMS{
    "room_id_1":{
        "date": "12/5",
        "location": "Price Center",
        "time": "0:30 AM",
        "user1Accepted": "YES",
        "user1ID": "user_id1",
        "user1Name", "example",
        "user1SentInvite": "True",
        "user2Accepted": "NOT_YET",
        "user2ID": "user_id2",
        "user2Name": "example2",
        "user2SentInvite": "false",
        "messages": [message_ids]
    }
}
```

```
MESSAGES{
    "message_id_1": {
        "messageText": "example text",
        "messageTime": "0:30 AM",
        "messageUser": "example"
    }
}
```

```
TAGS{
    "Tag1": "car",
    "Tag2": "Coding",
    "Tag3": "Golden State Warriors",
    "Tag4": "Gary",
    "Tag5": "UCSD"
}
```