

Schedule Sharing Web Application: Database Proposal

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Users

The Users collection will store all the basic information of the users who login to our scheduling web application(name, username, etc). It will also hold ID's of all the user's personal and public events.

```
{
  "_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
  "firstName": "George",
  "lastName": "Bush",
  "username": "BushBoy43",
  "password": "012345",
  "email": "gbush2@whitehouse.gov",
  "friends": ["7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
    "7b696a2-d0f2-4g8g-h67d-7a1d4b6b6710",
    "7c654g2-d8g2-4y3u-h67d-7a1e3r6b2920"],
  "events": ["7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
    "7b696a2-d0f2-4g8g-h67d-7a1d4b6b6710",
    "7c654g2-d8g2-4y3u-h67d-7a1e3r6b2920"]
}
```

Name	Type	Description
_id	string	Unique ID for the user
firstName	string	The first name of the user
lastName	string	The last name of the user
username	string	The username of the user to login
password	string	Unique password for the user to login with

email	string	Email address for the user (for signing up)
friends	Array of strings	Array of the unique ID's for the user's friends
events	Array of strings	Array of the unique ID's for the events that the user is attending

Events

The Events collection will store all of the events created in the system. It will hold all event information (date, location, etc), whether the event is public or private, ID's of those going to an event, and user comments on that event.

```
{
  "_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
  "visibility": "public",
  "date": "03/15/2020",
  "timeStart": "3:00 PM",
  "timeEnd": "4:00 PM",
  "location": "3rd Floor Howe Center",
  "eventName": "Group Meeting",
  "eventHostID": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
  "participants": ["7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
    "7b696a2-d0f2-4g8g-h67d-7a1d4b6b6710",
    "7c654g2-d8g2-4y3u-h67d-7a1e3r6b2920"],
  "comments": [{
    "_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
    "time": "5:30 PM",
    "date": "03/12/2020",
    "username": "BushBoy43",
    "commentText": "This is an interesting event."
  }
  ]
}
```

```
}}
```

```
}
```

Name	Type	Description
_id	string	Unique ID for the event
visibility	string	Whether the event is “public” or “private”
date	string	Date for the event
timeStart	string	Start time of the event
timeEnd	string	End time of the event
location	string	Unique location for the event
eventName	string	Name for the event
eventHostID	string	ID of the user that the event belongs too
participants	Array of strings	The unique id of users who take part in the events
comments	Array of subdocuments	Array of subdocuments containing all of the info about the comments written

Comments

The Comments subdocument will store the data needed for the comment. This includes the id of the comment, the user making the comment, the text of the comment, etc.

```
“comments”: [{  
  “_id”: “7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310”,  
  “time”: “5:30 PM”,  
  “date”: “03/12/2020”,  
  “username”: “BushBoy43”,  
  “commentText”: “This is an interesting event.”  
}]
```

Name	Type	Description
_id	string	Unique ID for the comment
time	string	The time this comment was written
date	string	The date this comment was written
username	string	The username of who wrote this comment
commentText	string	The written comment text