**Group 5 DB Proposal**

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**Users:** This collection will identify individual users, allowing them to log in, access, and share their journals.

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Description automatically generated

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| \_id | ObjectId | Database identifier to recognize each individual user. |
| username | string | Public name to represent each user to the public. |
| hashed-password | string | A password that the user uses to log in. |
| age | number | The user's age. |
| email | string | The user's email. |
| firstName | string | First name of the user. |
| lastName | string | Last name of the user. |
| publicJournals | array | The user's public journals. |
| privateJournals | array | The user's private journals. |
| comments | array | The user's public comments. |

**Journals:** This collection will contain the journal and all of the sections of that journal.

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Description automatically generated**

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| \_id | ObjectId | Database identifier to recognize each individual journal. |
| user\_id | array | An array containing the ids of the users that can access and edit the journal. |
| author | array | An array containing the usernames of the users that can access the journal. |
| title | string | The title of the journal. |
| sections | array | An array containing the ids of the sections within the journal. |

**Sections:** This collection will contain the section itself, the journal it is associated with, and identifiers for the posts present within it.

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Description automatically generated**

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| \_id | ObjectId | Database identifier to recognize each individual section. |
| journalId | ObjectId | Database identifier to recognize which journal the section is associated with. |
| title | string | The title of the section. |
| posts | array | An array of ObjectIds relating to each post within the section. |

**Posts:** This collection will contain each post, as well as its content, time, and date of the post made.

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Description automatically generated**

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| \_id | ObjectId | Database identifier to recognize each post. |
| sectionId | ObjectId | An identifier for the section that the post belongs in. |
| user\_ids | array | An array of ObjectIds for each user that can access the post. |
| comment\_ids | array | An array of ObjectIds for each comment associated with the post. |
| usernames | array | An array containing the usernames of all users that can access the post. |
| title | string | The name of the post. |
| time | DateTime | The date and time that the post was made. |
| content | array | The actual content of the post. |

**Comments:** This collection will contain comments associated with a post and a user.

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Description automatically generated**

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| \_id | ObjectId | Database identifier to recognize each comment. |
| postId | ObjectId | Id of the post the comment is associated with. |
| userId | ObjectId | Id of the user that made the comment. |
| user | string | The username of the user that commented. |
| comment | string | The contents of the comment itself. |
| time | DateTime | The date/time that the comment was posted. |

**Github**

<https://github.com/rhawley175/CS546_Group5_Final>