

# The Syndicate Herald

## DB Proposal

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### Users

The Users collection will store all users and their information and preferences, likes and dislikes. Users will be able to login, update their profile, and like/dislike news post and share.

```
{
  "_id":UUID("14ce2dfb-de99-47b9-9347-30b8db7db50e"),
  "firstName":"Harry",
  "lastName":"Potter",
  "username":"theboywholived",
  "email":"harry.potter@hogwarts.wiz",
  "hashedPassword":"$2a$08$XdvNkf dNIL8Fq7l8xsuIUeSbNOFgK0M0iV5H0skfVn7.PWncShU.0",
  "sources":[
    "abc-news",
    "axios",
    "bbc-news"
  ],
  "categories":[
    "science",
    "entertainment"
  ],
  "liked":[
    UUID("4d4e8646-f092-4733-9eb2-a04ed5e5a30c"),
    UUID("50e49c7d-1c52-4f0f-a84a-464a6c1369ea")
  ],
  "disLiked":[
    UUID("7c78a407-2ff3-470a-83b6-e311aa6b9a11")
  ],
  "sent":[
    {
      "newsId": UUID("0e7bf31a-17d1-4a5f-a3b4-aae15973372e")
      "to": UUID("5d91e9ce-1aa4-459e-ae62-b5c3e0393acf"),
      "sentAt": "2019-11-16T19:16:07Z"
    },
    {
      "newsId": UUID("f2abbb11-d25b-438b-8bab-1fd0a247252f")
      "to": UUID("f2abbb11-d25b-438b-8bab-1fd0a247252f"),
      "sentAt": "2019-10-15T10:21:55Z"
    }
  ]
  "received":[
    {
      "newsId": UUID("7cc89ecb-a579-40f7-906f-58463767e8fe")
      "from": UUID("662d4641-b678-4468-927d-b4d872f9407c"),
      "receivedAt": "2019-11-10T19:51:00Z"
    }
  ],
}
```

Name	Type	Description
_id	UUID string	A UUID to represent the User
firstName	string	First name of the User
lastName	string	Last name of the User
username	string	Username of the User, that will be used on the website
email	string	Email id of the User
hashedPassword	string	A brypted string that is a hashed version of the User's password
sources	array of strings	Array of user's News source preferences
categories	array of strings	Array of user's News category preferences
liked	array of UUID strings	Array of News references liked by the User
disLiked	array of UUID strings	Array of News references disliked by the User
sent	array of News Sent	Array of News Sent objects ie. news shared with other Users
received	array of News Received	Array of News Received objects ie. news shared by other Users

## News Sent

Sub document, not stored in separate collection

```
{
  "newsId": UUID("0e7bf31a-17d1-4a5f-a3b4-aae15973372e")
  "to": UUID("5d91e9ce-1aa4-459e-ae62-b5c3e0393acf"),
  "sentAt": "2019-11-16T19:16:07Z"
}
```

Name	Type	Description
newsId	UUID string	A UUID referencing the News
to	UUID string	A UUID referencing the User to whom the News was shared with
sentAt	datetime string	A datetime string when the News was shared

## News Received

Sub document, not stored in separate collection

```
{
  "newsId": UUID("7cc89ecb-a579-40f7-906f-58463767e8fe")
  "from": UUID("662d4641-b678-4468-927d-b4d872f9407c"),
  "receivedAt": "2019-11-10T19:51:00Z"
}
```

Name	Type	Description
newsId	UUID string	A UUID referencing the News
from	UUID string	A UUID referencing the User who shared the News
receivedAt	datetime string	A datetime string when the News was shared

## News

The News collection will store all the news that has been liked/disliked or shared by any User.

```
{
  "_id": UUID("76eb7d84-af99-451d-8b0a-ea6d4a5626f7"),
  "source": {
    "id": "fox-news",
    "name": "Fox News"
  },
  "author": "Chris Irvine",
  "title": "Alabama's Tua Tagovailoa carted off field 'screaming in pain' - Fox News",
  "description": "Alabama quarterback and potential Number 1 overall draft pick Tua Tagovailoa was carted off the field Saturday with an apparent hip injury after being dragged down by two Mississippi State defenders.",
  "url": "https://www.foxnews.com/sports/alabama-tua-tagovailoa-carted-off-field",
  "urlToImage": "https://static.foxnews.com/foxnews.com/content/uploads/2019/11/Tua-2-Getty.jpg",
  "publishedAt": "2019-11-16T19:16:07Z",
  "content": "Alabama quarterback and potential No. 1 overall draft pick Tua Tagovailoa was carted off the field Saturday with an apparent hip injury after being dragged down by two Mississippi State defenders.\r\n\nWith three minutes left in the second quarter, Tagovailoa scr... [+2139 chars]"
  "likedBy": [
    UUID("14ce2dfb-de99-47b9-9347-30b8db7db50e")
  ],
  "dislikedBy": [
  ]
}
```

Name	Type	Description
_id	UUID string	A UUID to represent the News
source	A Source object	Source of the News
author	string	Author of the News
title	string	Title of the News
description	string	A small description of the News
url	url string	URL to the News article
urlToImage	url string	URL to the image associated with the News
publishedAt	datetime string	Datetime when the News was published
content	string	Content of the News
likedBy	array of UUID strings	Array of User references who liked the News
dislikedBy	array of UUID strings	Array of User references who disliked the News

## Source

Sub document, not stored in separate collection

```
{
  "id": "fox-news",
  "name": "Fox News"
}
```

Name	Type	Description
id	string	id string of the News source
name	string	Name of the News source

## Sessions

The Sessions document will store the User login sessions and. The `Sessions._id` will be used as the session id for the User

```
{
  "_id": UUID("59edb1a7-41f7-4466-a26a-399ccc2271e7")
  "userId": UUID("8d12cb07-c008-4785-9c66-ddaae4d390bb"),
  "startTime": "2019-11-10T19:51:00Z",
  "endTime": "2019-11-10T20:43:38Z",
  "isActive": false
}
```

Name	Type	Description
_id	UUID string	A UUID to represent a Session
userId	UUID string	A UUID referencing the User
startTime	datetime string	Start time of the session
endTime	datetime string	End time of the session
isActive	boolean	Boolean value to represent if the session is active or not