

PROJECTS ARE JOURNALS. Journal entries are therefore the pages of the project.
So we only need to store two arrays of things: projects and entries.

```
{
  "currDisplayedProject": "selected_project",
  "currDisplayedEntry": "selected_entry",
  "currentMaxProjectId": 0,
  "currentMaxEntryId": 2000,
  "currentMaxTagId": 30000,

  "user_profile": {
    "username": "wayfarers",
    "pronouns": "they/them",
    "bio": "SE at UCSD",
    "socialLinks": {
      "email": "string@str.str",
      "linkedin": "string linkd",
      "github": "wayfare.git.io"
    },
    "profilePicture": "https://via.placeholder.com/150"
  },
  "user_projects" : [
    {
      "projectId": 1,
      "projectName": "Name of the first project here",
      "description": "Project description here",
      "privacy": "Private",
      "tags": [
        {
          "tagId": 30001,
          "tagName": "HTML",
          "color": "red"
        },
        {
          "tagId": 30002,
          "tagName": "CSS",
          "color": "blue"
        },
        {
          "tagId": 30003,
          "tagName": "JavaScript",
          "color": "Yellow"
        }
      ],
      "selected_project_entries": [
```

```

    {
      "entryId": 2001,
      "titleName": "Entry 1 Name",
      "description": "Project description here",
      "tags": [
        {
          "tagId": 30004,
          "tagName": "HTML",
          "color": "red"
        },
        {
          "tagId": 30005,
          "tagName": "CSS",
          "color": "blue"
        },
        {
          "tagId": 30006,
          "tagName": "JavaScript",
          "color": "Yellow"
        }
      ],
      "publicity": "Private",
      "content": [
        {
          "type": "header",
          "content": "White background and bigger black font"
        },
        {
          "type": "code",
          "content": "Dark gray background and light gray font"
        },
        {
          "type": "text",
          "content": "White background and black font"
        }
      ]
    }
  ],
  {
    "projectId": 2,
    "projectName": "Name of the first project here",
    "description": "Project description here",
    "privacy": "Private",

```

```
"tags": [
  {
    "tagId": 30008,
    "tagName": "HTML",
    "color": "red"
  },
  {
    "tagId": 30009,
    "tagName": "CSS",
    "color": "blue"
  },
  {
    "tagId": 30010,
    "tagName": "JavaScript",
    "color": "Yellow"
  }
],
"selected_project_entries": [
  {
    "entryId": 2002,
    "titleName": "Entry 1 Name",
    "description": "Project description here",
    "tags": [
      {
        "tagId": 30011,
        "tagName": "HTML",
        "color": "red"
      },
      {
        "tagId": 30012,
        "tagName": "CSS",
        "color": "blue"
      }
    ],
    "publicity": "Private",
    "content": [
      {
        "type": "header",
        "content": "White background and bigger black font"
      },
      {
        "type": "code",
        "content": "Dark gray background and light gray font"
      }
    ]
  }
]
```

```

        {
            "type": "text",
            "content": "White background and black font"
        }
    ]
},
{
    "entryId": 2003,
    "titleName": "Entry 1 Name",
    "description": "Project description here",
    "tags": [
        {
            "tagId": 30013,
            "tagName": "HTML",
            "color": "red"
        },
        {
            "tagId": 30014,
            "tagName": "CSS",
            "color": "blue"
        }
    ],
    "publicity": "Private",
    "content": [
        {
            "type": "header",
            "content": "White background and bigger black font"
        },
        {
            "type": "code",
            "content": "Dark gray background and light gray font"
        },
        {
            "type": "text",
            "content": "White background and black font"
        }
    ]
}
]
}
],
"user_tags": [
    {
        "tagId": 30001,

```

```

        "tagName": "HTML",
        "color": "red"
    },
    {
        "tagId": 30002,
        "tagName": "CSS",
        "color": "blue"
    }
]
}

```

`current_max_project_id` AND `current_max_entry_id`: are integer tracking the highest ID assigned so far. As we add things to the `localStorage`, their id gets assigned with the respective variable++. This way, every object has a unique id.

I made it so that we have two different “id trackers,” one for the **projects (starts with 1)** and one for **entries (starts with 1001)**. Since I don’t believe that the user will ever have 1000 projects, these integers should work just fine for our purposes.

`user_profile`: Object containing the user data.

`user_projects`: Array of things (objects) that represent individual projects.

`selected_project_entries`: Every project will have its own array of things (objects) that represent its individual entries.

Note: `localStorage` can only store strings. Thus, we have to convert js objects into strings **before** sending them to the `localStorage`, AND we have to convert them back to objects **after** retrieving them from `localStorage` so we can access its contents with the dot (.) operator.

How to Store things to localStorage:

JSON (JavaScript Object Notation) is a format used to represent complex data structures like objects in a way that can be easily stored and transmitted. So, before storing the user preferences object in local storage, we convert it to a JSON string using `JSON.stringify()`. **This process is called serialization.**

Process	Method	Description
zation	<code>stringify()</code>	arts a JavaScript object into a JSON string

How to Retrieve things from localStorage:

When we retrieve the data from local storage, it's a JSON string. We can't use it directly as an object. So, we parse the JSON string back into a JavaScript object using `JSON.parse()`. **This process is called deserialization.**

Process

Method

Description

ialization

`parse()`

arts a JSON string back into a JavaScript object

Also, I tried to have distinctive and descriptive names for the project and entries objects.

That's why I wrote "privacy" in projects and "publicity" in entries. They **mean the same thing**, but it's just my way to show that these belong to different objects (also for debugging purposes).

Please message me (Krishian) if you have any questions!

Q&A Section:

Why the update?

This change happened mostly because Seline (who's implementing the journal entry page) is going to build the entry page's html based off the entry content, so if we have it as a text it's going to facilitate her coding.

Where did "journals" go?

Think about the project as a simple book 📖. So each page inside the book is an entry 📄.

I think our design implied a misunderstanding that we were asking to implement projects, journals AND entries (three different things instead of two). So team members started to see projects as being a bookshelf 📚, journals as being a book 📖, and entries as being a page in that book 📄. However, **THIS IS WAY TOO COMPLICATED for the 2 weeks left that we have.**

Instead, I shrunk the workload of everyone by just having projects as "books" 📖 and entries as "pages" 📄. Basically forget that there exists a "journal" because the projects are now the journals (books).