

Pathverse Coding Challenge

Create a sample dashboard using Flutter and build it into a web app. The dashboard should contain the following:

- A login screen
- A collapsable sidebar
 - With a `Signout` button
 - A dashboard/homepage button
- A home page

How the app should work

The login screen will be the first screen, and it doesn't have to connect to an actual backend, but the fields on the login page should validate the email format. And as long as a user types in the correct format, clicking the login button will allow the user to transition to the home page. If the format is wrong, display an error message and stay on the login page.

Once logged in, the user should see a sidebar and the homepage. The sidebar can be collapsed or extended with a button click.

The home page should have a list of posts that are generated from:

```
https://jsonplaceholder.typicode.com/posts
```

The API link should return 100 posts, please make sure they are properly paginated on the home page and displayed in a nicely styled list. Each list should show 20 posts.

For each post, display their title and description and the userID. The userID should be clickable and when clicked on, it should load all the posts made by the comment.

Use the following API for fetching user-related posts:

```
https://jsonplaceholder.typicode.com/users/<userID>/posts
```

For each post, also display a `Comments` button, when clicked on, displays all the comments related to that post.

For loading the comments please use:

```
https://jsonplaceholder.typicode.com/posts/<postId>/comments
```

For the UI of this page, do what you think looks and performs the best.

Once you complete your code, please upload it to an online repository and send us the link at admin@pathverse.ca. Bonus points will be given for the UI design.

Please submit it before the end of the day on March 10th, 2023.