

## Aim

- Design a user-friendly dashboard for LDS (Lab Data Service) which contains the meta data of all virtual labs

## Approach

- We developed it as an SPA (Single Page Application) along with JSON specification for view model.
- Google OAuth was used for authentication while Python Flask-Login was used for session management and a hash router for navigation.

## Results and Conclusion

- We could develop an SPA for the dashboard
- using plain JavaScript without any frameworks .
- We were able to decode JSON specification efficiently allowing us to render the view based on role.
- Absence of frameworks allows manipulation of code to incorporate any features within the limit of the language.
- JSON has a great potential when it comes to automating procedures like generation of HTML code.
- Hash routing allows us to embed the exact state of the web app in the page URL.

