**Report Document About Technical Challenge**

**I. Report time for Challenges**

1. About Basic

* Create HTML + CSS within Material Design, and Responsive Design: it’s take me 2 hours

1. About Intermediate:

* Using Angular to implement UI with mockup data: it’s take me 3 hours

1. About Advanced:

* Working with service take me 3 hours

**II. Document**

* About HTML + CSS – I choose **Material Design Lite** framework, because it’s supply beautiful widget, and easily for responsive website, and maintain.
* About features, I choose **Angular** to implement, because Angular is JS framework – single page application. It loads any page in website very fast. Besides, its structure is consistency, so make Angular is easy to read, maintain for web app. Also, service and route in Angular is awesome, it is easy to handle async actions. However, about upgrade it is so difficult, when leader would to upgrade this based on current project (not restructure).

**III. Improve:**

1. Add route, and use Lazy Load in Angular.
2. Minimum and Maximum lengths should be set for password text boxes.
3. When users accidentally press Caps Lock, notification appears.
4. Users should not be allowed to copy password and paste it into text box.
5. In password textbox, the template should have eye icon, user can see their password in character format (check right or wrong password).
6. We have notification email, authenticate device if user login from another device/machine.
7. Logout from all platforms, all devices.
8. Login with social accounts.
9. “Remember me” features.
10. After 3-5 unsuccessfully attempts of login, account should be get locked for specific period (ex: 5-10 minutes).