Weekly Report

Date: 10/08/2021

Team: 3

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1. Weekly Progress

|  | **Work Items** | **Progress and Discussion Items** |
| --- | --- | --- |
| 1 | Project Environment Settings | spring projects with OAuth 2.0 service using Java 11 and JDK 16.0.2 |
| 2 | Do study on How Spring Security Works | Study through open lectures and documents. |
| 3 | Design and Functions | How we will implement our website environment |

Detailed Discussion Items

1. Project Environment setting

* Spring Security settings with OAuth 2.0 service
* Create Github repository for cooperation
* use Intellij IDEA as IDE. Intellij IDEA provides powerful features for spring development.

2. Do study on How Spring Security Works

* How to configure authentication/authorization.
* How filter chain in Spring Security works
* Authentication/Authorization flow

3. Design and Functions

* Pages in Client.
  + index.html : The first page you can see when you access the website.
  + login.html : a page asking the user to sign-in
  + user.html : a page for service using obtained resources.
* Pages in Authorization Server
  + Authorization request page
  + Authentication page : a page to authenticate a user using oAuth.
* Flow
  + Authentication success : sign-in authentication is successfully completed.
  + Authentication failed : sign-in authentication failed.
  + Logout : you can sign-out when you already signed-in
  + Request resource using obtained access token

2. Next-Week Plan

| **No** | **Work Items** | **Plan and Expected Issues/Approaches** |
| --- | --- | --- |
| 1 | Resource Server Design | Resource server contains phone-number,address of resource owner. |
| 2 | Client Server Design | Obtain resources and show it. |
| 3 | Authorization Server Design | responsible for authorization in OAuth2.0 flow |

Detailed Expected Issues

1. Resource Server Design

* we will think about followings
* Which DB to use
* How to configure DB
* How to send information
* How to validate the access token

2. Client Server Design

* It obtains resources and does some service on it.
* For now, we focus on OAuth flow not on the service.
* Design communication with authorization server.

3. Authorization Server Design

* using Spring Security OAuth2.0