1. Design introduction

This is a small Web services system, developed using native JDK, that can be launched and its Web services can be invoked by other systems.

二、Features overview

1.Create user

2.Delete user

3.Create role

4.Delete role

5.Add role to user

6.Authenticate

7.Invalidate

8.Check role

9.All roles

三、Store design

2.1 store users

HashMap<String, User> usersMap

2.2 store roles

HashMap<String, Role> rolesMap

2.3 store tokens(allow serveral users use)

HashMap<String, Token> tokenMap

四、Web Service Design

3.1 background

Use only the native JDK 1.8

3.2 main web technology

javax.jws.WebService

3.3 token desgin

UUID.randomUUID().hashCode()

五、API design

4.1 Create user

Name:createUser

Input: String username 、String password

Output:String

4.2 Delete user

Name:deleteUser

Input: String username

Output:String

4.3 Create role

Name:createRole

Input: String roleName

Output:String

4.4 Delete role

Name:deleteRole

Input: String roleName

Output:String

4.5 Add role to user

Name:addRoleToUser

Input: String roleName、String username

Output:String

4.6 Authenticate

Name:authenticate

Input: String username 、String password

Output:String

4.7 Invalidate

Name:inValidate

Input: String token

Output:String

4.8 Check role

Name:checkRole

Input: String token、String roleName

Output:String

4.9 All roles

Name:allUsers

Input: String token

Output:String