**使用說明**

(註) 當啟動專案後，會在資料庫新增最高權限帳號root。

**流程說明(使用Postman)**:

1. 使用root登入 => 取得JWTToken
2. 匯入相關資料

\* importRoleData

\* importAuthorityData

\* importRoleAuthData

\* importUserData(可不匯)

3. 使用root帳號建立admin部門管理者帳號

4. 使用admin登入(取得JWTToken)並建立supervisor(主管)帳號

5. 使用supervisor 登入(取得JWTToken) 並建立user(一般用戶)

其他:

\* 使用admin帳號賦予特定角色特定身分

\* 修改帳密(自己修改自己)

..…

* 登入

   Post http://localhost:8080/SpringSecurityDemo/login

   Body x-www-form-urlencoded

   KEY      VALUE

   username  root

   password   123

* 匯入角色身分表(root)

POST http://localhost:8080/SpringSecurityDemo/root/importRoleData

   Body raw JSON

  [

   {"roleId":"admin", "roleName":"系統管理員"},

   {"roleId":"dba", "roleName":"資料庫管理員"},

   {"roleId":"supervisor", "roleName":"中階用戶"},

   {"roleId":"handler", "roleName":"經辦人員"},

   {"roleId":"examiner", "roleName":"覆核人員"},

   {"roleId":"user", "roleName":"一般用戶"}

]

* 匯入權限功能資料表(root專用)

   POST http://localhost:8080/SpringSecurityDemo/root/importAuthorityData

   Body raw JSON

  [

    {"funcId":"11101001", "funcType":"S", "funcName":"匯入角色資料", "servletPath":"/importRoleData", "dispOrder":"0001", "permitAll":"N"},

    {"funcId":"11101002", "funcType":"S", "funcName":"匯入使用者測試資料", "servletPath":"/importUserData", "dispOrder":"0002", "permitAll":"N"},

    {"funcId":"11101003", "funcType":"S", "funcName":"匯入權限功能資料", "servletPath":"/importAuthorityData","dispOrder":"0003", "permitAll":"N"},

    {"funcId":"11101004", "funcType":"S", "funcName":"新增一名使用者(可建立管理者)", "servletPath":"/addAdmin", "dispOrder":"0004", "permitAll":"N"},

    {"funcId":"11101005", "funcType":"S", "funcName":"新增一名部門管理者", "servletPath":"/admin/register", "dispOrder":"0005", "permitAll":"N"},

    {"funcId":"11101006", "funcType":"S", "funcName":"新增一名部門使用者", "servletPath":"/supervisor/register", "dispOrder":"0006", "permitAll":"N"},

    {"funcId":"11101007", "funcType":"S", "funcName":"賦予特定角色特定權限", "servletPath":"/admin/giveAuthority", "dispOrder":"0007", "permitAll":"N"},

    {"funcId":"11102001", "funcType":"S", "funcName":"查詢所有角色", "servletPath":"/getAllRoles", "dispOrder":"0008", "permitAll":"N"},

    {"funcId":"11102002", "funcType":"S", "funcName":"查詢所有權限功能", "servletPath":"/getAllFuncs", "dispOrder":"0009", "permitAll":"N"},

    {"funcId":"11102003", "funcType":"B", "funcName":"查詢所有使用者", "servletPath":"/getAll",

    "dispOrder":"0010", "permitAll":"Y"},

    {"funcId":"11102004", "funcType":"B", "funcName":"查詢單一使用者", "servletPath":"/getUserByName",

    "dispOrder":"0011", "permitAll":"Y"},

    {"funcId":"11103001", "funcType":"B", "funcName":"修改使用者密碼", "servletPath":"/changePassword",

    "dispOrder":"0012", "permitAll":"Y"},

    {"funcId":"11104001", "funcType":"S", "funcName":"解除特定角色的特定權限", "servletPath":"/admin/removeAuthority", "dispOrder":"0013", "permitAll":"N"},

    {"funcId":"11104002", "funcType":"S", "funcName":"刪除使用者帳號", "servletPath":"/admin/deleteUser", "dispOrder":"0014", "permitAll":"N"}

]

* 匯入權限控制資料表(root專用)

   POST http://localhost:8080/SpringSecurityDemo/root/importRoleAuthData

   Body raw JSON

  [

    {"authPrimarykey":{"deptId":"100", "roleId":"admin", "funcId":"11102001"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"200", "roleId":"admin", "funcId":"11102001"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"300", "roleId":"admin", "funcId":"11102001"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"400", "roleId":"admin", "funcId":"11102001"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"500", "roleId":"admin", "funcId":"11102001"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"600", "roleId":"admin", "funcId":"11102001"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"100", "roleId":"admin", "funcId":"11102002"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"200", "roleId":"admin", "funcId":"11102002"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"300", "roleId":"admin", "funcId":"11102002"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"400", "roleId":"admin", "funcId":"11102002"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"500", "roleId":"admin", "funcId":"11102002"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"600", "roleId":"admin", "funcId":"11102002"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"100", "roleId":"admin", "funcId":"11102003"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"200", "roleId":"admin", "funcId":"11102003"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"300", "roleId":"admin", "funcId":"11102003"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"400", "roleId":"admin", "funcId":"11102003"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"500", "roleId":"admin", "funcId":"11102003"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"600", "roleId":"admin", "funcId":"11102003"}, "creflag":"Y","inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"100", "roleId":"admin", "funcId":"11101005"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"200", "roleId":"admin", "funcId":"11101005"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"300", "roleId":"admin", "funcId":"11101005"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"400", "roleId":"admin", "funcId":"11101005"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"500", "roleId":"admin", "funcId":"11101005"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"600", "roleId":"admin", "funcId":"11101005"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"100", "roleId":"supervisor", "funcId":"11101006"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"200", "roleId":"supervisor", "funcId":"11101006"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"300", "roleId":"supervisor", "funcId":"11101006"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"400", "roleId":"supervisor", "funcId":"11101006"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"500", "roleId":"supervisor", "funcId":"11101006"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"600", "roleId":"supervisor", "funcId":"11101006"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"100", "roleId":"admin", "funcId":"11101007"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"200", "roleId":"admin", "funcId":"11101007"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"300", "roleId":"admin", "funcId":"11101007"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"400", "roleId":"admin", "funcId":"11101007"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"500", "roleId":"admin", "funcId":"11101007"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"600", "roleId":"admin", "funcId":"11101007"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"300", "roleId":"admin", "funcId":"11103001"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"300", "roleId":"admin", "funcId":"11104001"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"},

    {"authPrimarykey":{"deptId":"300", "roleId":"admin", "funcId":"11104002"}, "creflag":"Y", "inqflag":"Y", "updflag":"Y", "delflag":"Y", "procflag":"Y"}

]

* 註冊管理者(root專用)

   POST http://localhost:8080/SpringSecurityDemo/root/register

   Body raw JSON

  {

    "username":"1100300",

    "name":"張三",

    "password":"123",

    "role":"admin",

    "department":"資訊部",

    "deptId":"300",

    "email":"1100301@gmail.com"

}

* 註冊中階使用者(admin專用)

   POST http://localhost:8080/SpringSecurityDemo/admin/register

   Body raw JSON

  {

    "username":"1100601",

    "name":"李四",

    "password":"123",

    "role":"supervisor",

    "department":"行銷部",

    "deptId":"600",

    "email":"1100601@gmail.com"

}

* 註冊一般用戶(supervisor專用)

   POST http://localhost:8080/SpringSecurityDemo/supervisor/register

   Body raw JSON

  {

    "username":"1100602",

    "name":"王五",

    "password":"123",

    "role":"user",

    "department":"行銷部",

    "deptId":"600",

    "email":"1100602@gmail.com"

}

* 賦予特定用戶特定身分權限(admin專屬)

   POST http://localhost:8080/SpringSecurityDemo/admin/giveAuthority

   Body raw JSON

  {

    "username":"1100602",

    "role":"handler"

}

* 解除特定角色的特定身分權限(admin)

   DELETE http://localhost:8080/SpringSecurityDemo/admin/removeAuthority

   Body raw JSON

 {

    "username":"1100602",

    "role":"handler"

}

   修改密碼(不限角色，自己只能改自己)

   PUT http://localhost:8080/SpringSecurityDemo/changePassword

   Body raw JSON

  {

    "username":"1100602",

    "password":"123",

    "newpassword":"123456"

}

* 查詢所有用戶資料(所有人都可以使用)

   GET http://localhost:8080/SpringSecurityDemo/getAll

* 刪除特定用戶(admin專用)

   DELETE http://localhost:8080/SpringSecurityDemo/admin/deleteUser

   Body raw JSON

  {

    "username":"1100601"

}

其他功能:

* 匯入使用者資料(root)

   POST http://localhost:8080/SpringSecurityDemo/root/importUserData

   Body raw JSON

   [

    {"username":"1100101", "name":"劉備", "password":"123", "role":"supervisor", "department":"財務部", "deptId":"100", "email":"1100101@gmail.com"},

    {"username":"1100102", "name":"趙雲", "password":"123", "role":"user", "department":"財務部", "deptId":"100", "email":"1100102@gmail.com"},

    {"username":"1100103", "name":"諸葛亮", "password":"123", "role":"user", "department":"財務部", "deptId":"100", "email":"1100103@gmail.com"},

    {"username":"1100201", "name":"曹操", "password":"123", "role":"supervisor", "department":"業務部", "deptId":"200", "email":"1100201@gmail.com"},

    {"username":"1100202", "name":"典偉", "password":"123", "role":"user", "department":"業務部", "deptId":"200", "email":"1100202@gmail.com"},

    {"username":"1100203", "name":"許褚", "password":"123", "role":"user", "department":"業務部", "deptId":"200", "email":"1100203@gmail.com"},

    {"username":"1100301", "name":"孫權", "password":"123", "role":"supervisor", "department":"資訊部", "deptId":"300", "email":"1100301@gmail.com"},

    {"username":"1100302", "name":"呂蒙", "password":"123", "role":"user", "department":"資訊部", "deptId":"300", "email":"1100302@gmail.com"},

    {"username":"1100303", "name":"陸遜", "password":"123", "role":"user", "department":"資訊部", "deptId":"300", "email":"1100303@gmail.com"},

    {"username":"1100401", "name":"袁紹", "password":"123", "role":"supervisor", "department":"人事部", "deptId":"400", "email":"1100401@gmail.com"},

    {"username":"1100402", "name":"顏良", "password":"123", "role":"user", "department":"人事部", "deptId":"400", "email":"1100402@gmail.com"},

    {"username":"1100403", "name":"文醜", "password":"123", "role":"user", "department":"人事部", "deptId":"400", "email":"1100403@gmail.com"},

    {"username":"1100501", "name":"張角", "password":"123", "role":"supervisor", "department":"行政部", "deptId":"500", "email":"1100501@gmail.com"},

    {"username":"1100502", "name":"張寶", "password":"123", "role":"user", "department":"行政部", "deptId":"500", "email":"1100502@gmail.com"},

    {"username":"1100503", "name":"張梁", "password":"123", "role":"user", "department":"行政部", "deptId":"500", "email":"1100503@gmail.com"}

]

* 依名稱查詢使用者(所有人)

   GET http://localhost:8080/SpringSecurityDemo/getUserByName

   Params

   KEY    VALUE

   username   1100601

* 查詢能進入特定功能路徑的角色(root專用)

GET http://localhost:8080/SpringSecurityDemo/root/getAllRolesBySrvltPath

Params

KEY          VALUE

servletPath  /getAll