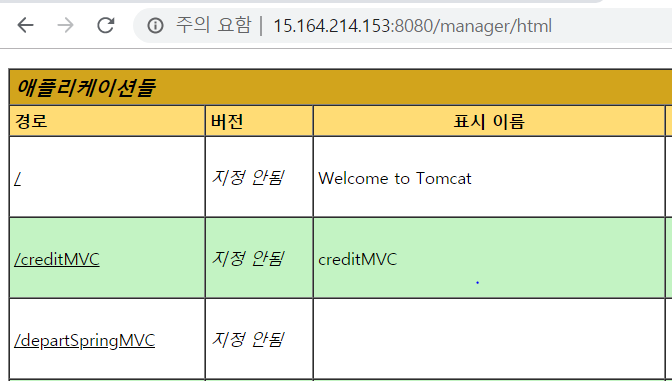
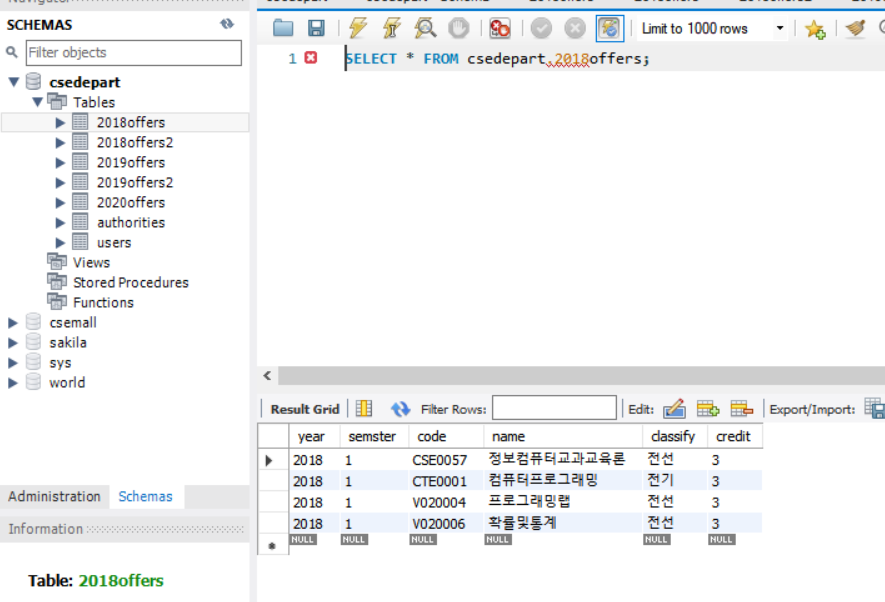
Spring을 이용한

수강신청 시스템

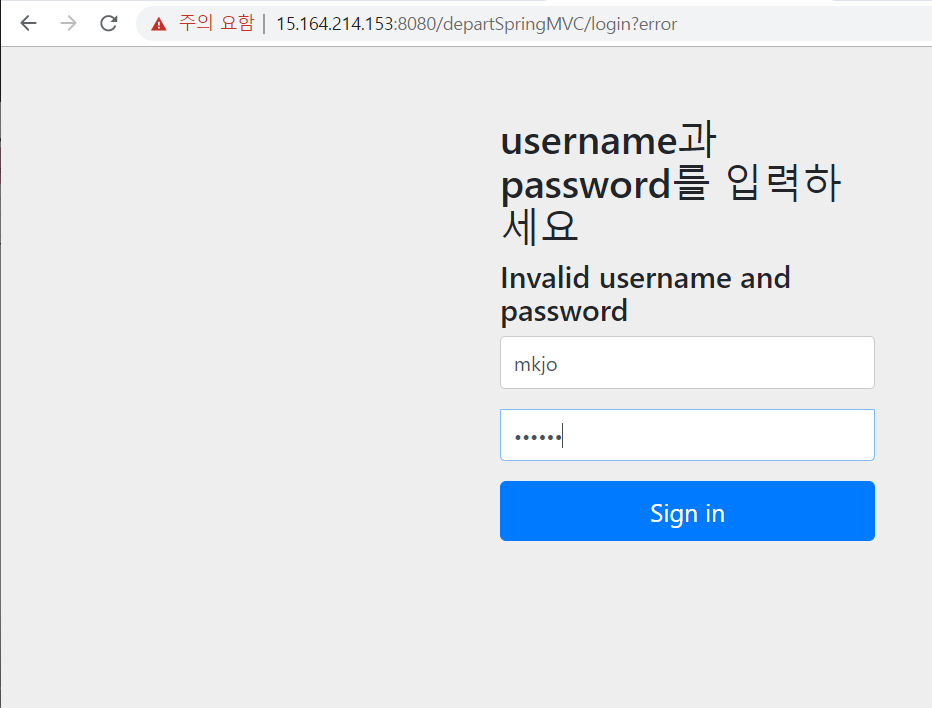
Ec2 배포



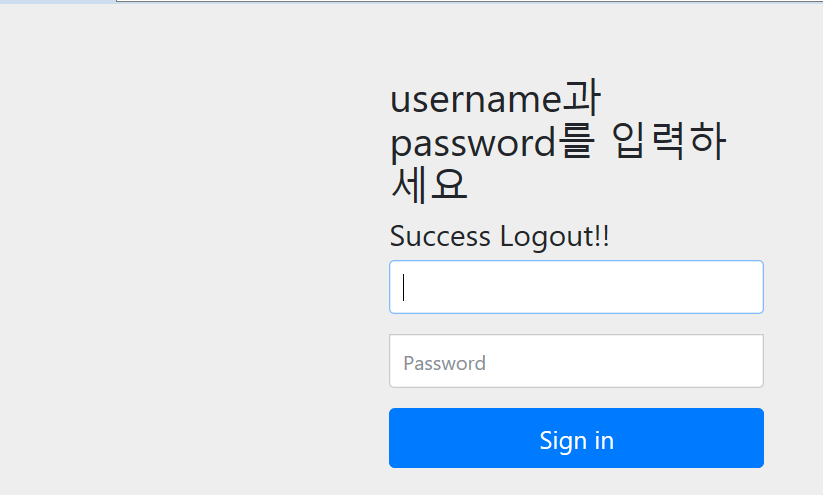
Mysql 데이터저장



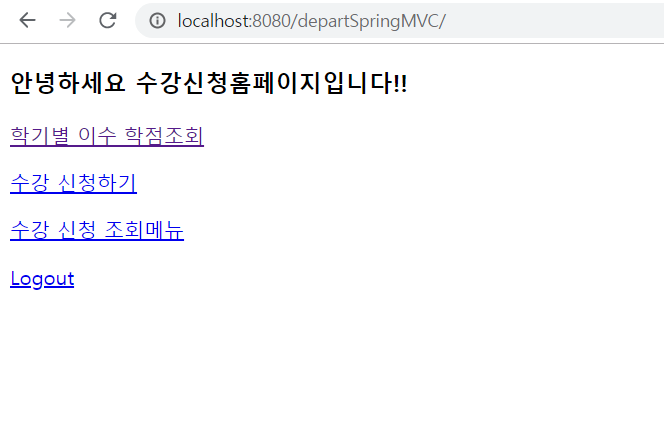
로그인화면(username과 password는 데이터베이스에 저장)



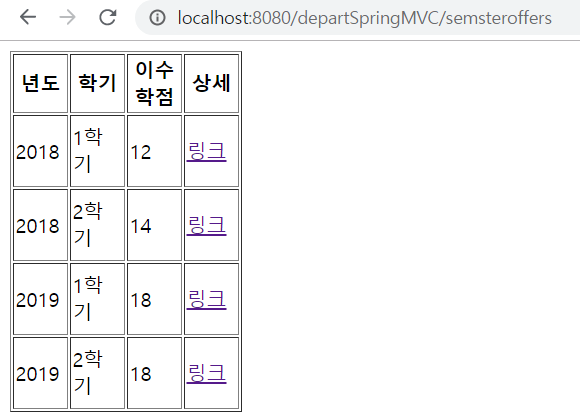
로그아웃 시



수강신청홈페이지

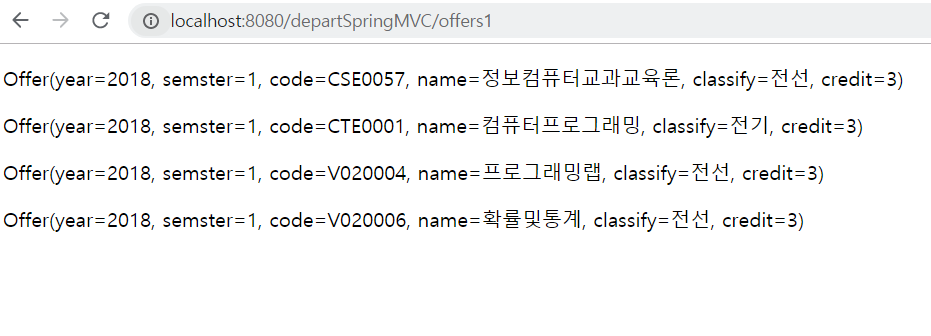


학기별 이수학점 조회

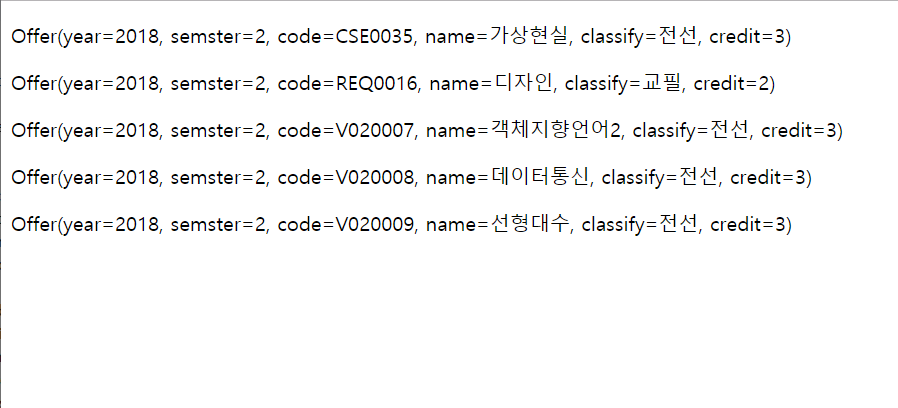


조회

2018년 1학기 조회

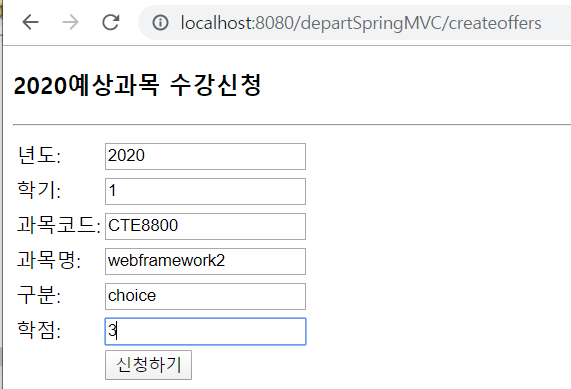


2018년 2학기 조회



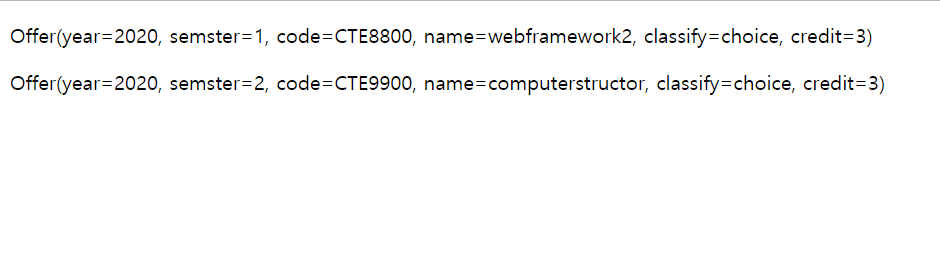
수강신청

(웹에서 입력해서 수강신청하면 한글이 깨지는 현상으로 인해 영어로 입력함)



예상과목 조회

2020-1학기 조회



코드

1.Controller

HomeController

@Controller

**public** **class** HomeController {

**private** **static** **final** Logger ***logger*** = LoggerFactory.*getLogger*(HomeController.**class**);

/\*\*

\* Simply selects the home view to render by returning its name.

\*/

@RequestMapping(value = "/", method = RequestMethod.***GET***)

**public** String home(Locale locale, Model model) {

**return** "home";

}

@RequestMapping(value = "/semsteroffers",method = RequestMethod.***GET***) //학기별 이수학점 맵핑

**public** String readoffers(Locale locale, Model model) {

**return** "semsteroffers";

}

@RequestMapping(value = "/createoffers",method = RequestMethod.***GET***) //수강신청하기

**public** String createoffers(Locale locale,Model model) {

**return** "createoffers";

}

LoginController

@Controller

**public** **class** LoginController {

@RequestMapping("/login")

**public** String showLogin(@RequestParam(value="error",required = **false**) String error,

@RequestParam(value="logout",required = **false**) String logout,

Model model) {

**if**(error != **null**) {

model.addAttribute("errorMsg","Invalid username and password");

}

**if**(logout != **null**) {

model.addAttribute("logoutMsg","Success Logout!!");

}

**return** "login";

}

}

OfferController

@Controller

**public** **class** OfferController {

@Autowired

**private** OfferService offerService;

@RequestMapping("/offers1")

**public** String showOffers1(Model model) { //2018-1학기 성적

List<Offer> offers = offerService.getCurrent1();

model.addAttribute("offers1", offers);

**return** "offers1";

}

@RequestMapping("/offers2")

**public** String showOffers2(Model model) { //2018-2학기 성적

List<Offer> offers = offerService.getCurrent2();

model.addAttribute("offers2",offers);

**return** "offers2";

}

@RequestMapping("/offers3")

**public** String showOffers3(Model model) { //2019-1학기 성적

List<Offer> offers = offerService.getCurrent3();

model.addAttribute("offers3",offers);

**return** "offers3";

}

@RequestMapping("/offers4")

**public** String showOffers4(Model model) { //2019-1학기 성적

List<Offer> offers = offerService.getCurrent4();

model.addAttribute("offers4",offers);

**return** "offers4";

}

@RequestMapping("/selectoffers")

**public** String showOffers5(Model model) { //2020-1학기 성적조회

List<Offer> offers = offerService.getCurrent5();

model.addAttribute("selectoffers",offers);

**return** "selectoffers";

}

@RequestMapping("/createoffers")

**public** String createoffers(Model model) {

model.addAttribute("offer",**new** Offer());

**return** "createoffers";

}

@RequestMapping("/docreate")

**public** String docreate(Model model, Offer offer) { //2020-1학기 예상성적 insert

offerService.insert(offer);

**return** "offercreated";

}

}

OfferDao

@Repository

**public** **class** OfferDao {

**private** JdbcTemplate jdbcTemplate;

@Autowired

**public** **void** setDataSource(DataSource dataSource) {

jdbcTemplate = **new** JdbcTemplate(dataSource);

}

// query and return a multiple object

**public** List<Offer> getOffers1() { //2018-1학기 조회

String sqlStatment = "select \* from 2018offers "; // placeholder

**return** jdbcTemplate.query(sqlStatment, **new** RowMapper<Offer>() {

@Override

**public** Offer mapRow(ResultSet rs, **int** rowNum) **throws** SQLException {

Offer offer = **new** Offer();

offer.setYear(rs.getInt("year"));

offer.setSemster(rs.getInt("semster"));

offer.setCode(rs.getString("code"));

offer.setName(rs.getString("name"));

offer.setClassify(rs.getString("classify"));

offer.setCredit(rs.getInt("credit"));

**return** offer;

}

});

}

**public** List<Offer> getOffers2() { //2018-2학기 조회

String sqlStatment = "select \* from 2018offers2 "; // placeholder

**return** jdbcTemplate.query(sqlStatment, **new** RowMapper<Offer>() {

@Override

**public** Offer mapRow(ResultSet rs, **int** rowNum) **throws** SQLException {

Offer offer = **new** Offer();

offer.setYear(rs.getInt("year"));

offer.setSemster(rs.getInt("semster"));

offer.setCode(rs.getString("code"));

offer.setName(rs.getString("name"));

offer.setClassify(rs.getString("classify"));

offer.setCredit(rs.getInt("credit"));

**return** offer;

}

});

}

**public** List<Offer> getOffers3() { //2019-1학기 조회

String sqlStatment = "select \* from 2019offers "; // placeholder

**return** jdbcTemplate.query(sqlStatment, **new** RowMapper<Offer>() {

@Override

**public** Offer mapRow(ResultSet rs, **int** rowNum) **throws** SQLException {

Offer offer = **new** Offer();

offer.setYear(rs.getInt("year"));

offer.setSemster(rs.getInt("semster"));

offer.setCode(rs.getString("code"));

offer.setName(rs.getString("name"));

offer.setClassify(rs.getString("classify"));

offer.setCredit(rs.getInt("credit"));

**return** offer;

}

});

}

**public** List<Offer> getOffers4() { //2019-2학기 조회

String sqlStatment = "select \* from 2019offers2 "; // placeholder

**return** jdbcTemplate.query(sqlStatment, **new** RowMapper<Offer>() {

@Override

**public** Offer mapRow(ResultSet rs, **int** rowNum) **throws** SQLException {

Offer offer = **new** Offer();

offer.setYear(rs.getInt("year"));

offer.setSemster(rs.getInt("semster"));

offer.setCode(rs.getString("code"));

offer.setName(rs.getString("name"));

offer.setClassify(rs.getString("classify"));

offer.setCredit(rs.getInt("credit"));

**return** offer;

}

});

}

**public** List<Offer> getOffers5() { //2020-1학기 예상과목

String sqlStatment = "select \* from 2020offers "; // placeholder

**return** jdbcTemplate.query(sqlStatment, **new** RowMapper<Offer>() {

@Override

**public** Offer mapRow(ResultSet rs, **int** rowNum) **throws** SQLException {

Offer offer = **new** Offer();

offer.setYear(rs.getInt("year"));

offer.setSemster(rs.getInt("semster"));

offer.setCode(rs.getString("code"));

offer.setName(rs.getString("name"));

offer.setClassify(rs.getString("classify"));

offer.setCredit(rs.getInt("credit"));

**return** offer;

}

});

}

**public** **boolean** insert(Offer offer) { //2020학기 예상과목 입력

**int** year = offer.getYear();

**int** semster = offer.getSemster();

String name = offer.getName();

String code = offer.getCode();

String classify = offer.getClassify();

**int** credit = offer.getCredit();

String sqlStatement = "insert into 2020offers (year,semster,code,name,classify,credit) values (?,?,?,?,?,?)";

**return** (jdbcTemplate.update(sqlStatement, **new** Object[] {

year,semster,code,name, classify, credit}) == 1);

}

OfferService

@Service

**public** **class** OfferService {

@Autowired

**private** OfferDao offerDao;

**public** List<Offer> getCurrent1() { //2018-1학기 성적

**return** offerDao.getOffers1();

}

**public** List<Offer> getCurrent2() { //2018-2학기 성적

**return** offerDao.getOffers2();

}

**public** List<Offer> getCurrent3() { //2019-1학기 성적

**return** offerDao.getOffers3();

}

**public** List<Offer> getCurrent4() { //2019-2학기 성적

**return** offerDao.getOffers4();

}

**public** List<Offer> getCurrent5() { //2020-1학기 성적

**return** offerDao.getOffers5();

}

**public** **void** insert(Offer offer) { //2020-1학기 성적 입력

offerDao.insert(offer);

}

}

2.Model

Offer

@Getter

@Setter

@NoArgsConstructor

@ToString

**public** **class** Offer {

**private** **int** year;

**private** **int** semster;

**private** String code;

**private** String name;

**private** String classify;

**private** **int** credit;

}

필터 코드는 생략

Jdbc.properties(mysql 연동)

jdbc.driverClassName = com.mysql.cj.jdbc.Driver

jdbc.url = jdbc:mysql://localhost:3306/csedepart?characterEncoding=UTF-8&serverTimezone=Asia/Seoul

jdbc.username = root

jdbc.password = csedbadmin

Xml은 dao,service,servlet,security사용

Security.xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<b:beans xmlns=*"http://www.springframework.org/schema/security"*

xmlns:b=*"http://www.springframework.org/schema/beans"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://www.springframework.org/schema/beans https://www.springframework.org/schema/beans/spring-beans.xsd*

*http://www.springframework.org/schema/security https://www.springframework.org/schema/security/spring-security.xsd"*>

<authentication-manager>

<authentication-provider>

<jdbc-user-service data-source-ref=*"dataSource"*

users-by-username-query=*"select username,password,enabled from users where username=?"*

authorities-by-username-query=*"select username,authority from authorities where username=?"* />

</authentication-provider>

</authentication-manager>

<http use-expressions=*"true"* auto-config=*"true"*>

<form-login login-page=*"/login"* authentication-failure-url=*"/login?error"*/>

<intercept-url pattern =*"/login"* access=*"permitAll"*/>

<intercept-url pattern =*"/loginout"* access=*"permitAll"*/>

<intercept-url pattern =*"/"* access=*"hasRole('ROLE\_USER')"*/>

<logout />

</http>

</b:beans>

3.view

Login.jsp(로그인페이지)

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"utf-8"*>

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<meta name=*"description"* content=*""*>

<meta name=*"author"* content=*""*>

<title></title>

<link href=*"https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/css/bootstrap.min.css"* rel=*"stylesheet"* integrity=*"sha384-/Y6pD6FV/Vv2HJnA6t+vslU6fwYXjCFtcEpHbNJ0lyAFsXTsjBbfaDjzALeQsN6M"* crossorigin=*"anonymous"*>

<link href=*"https://getbootstrap.com/docs/4.0/examples/signin/signin.css"* rel=*"stylesheet"* crossorigin=*"anonymous"*/>

</head>

<body>

<div class=*"container"*>

<form class=*"form-signin"* method=*"post"* action=*"*<c:url value = *"/login"*/>*"*>

<h2 class=*"form-signin-heading"*>username과 password를 입력하세요</h2>

<c:if test =*"*${**not empty** logoutMsg }*"*>

<h4> ${logoutMsg}</h4>

</c:if>

<c:if test =*"*${**not empty** errorMsg }*"*>

<h4> ${errorMsg}</h4>

</c:if>

<p>

<label for=*"username"* class=*"sr-only"*>Username</label>

<input type=*"text"* id=*"username"* name=*"username"* class=*"form-control"* placeholder=*"Username"* required autofocus>

</p>

<p>

<label for=*"password"* class=*"sr-only"*>Password</label>

<input type=*"password"* id=*"password"* name=*"password"* class=*"form-control"* placeholder=*"Password"* required>

</p>

<input type=*"hidden"* name=*"*${\_csrf.parameterName}*"* value=*"*${\_csrf.token}*"*/>

<button class=*"btn btn-lg btn-primary btn-block"* type=*"submit"*>Sign in</button>

</form>

</div>

</body></html>

Home.jsp(로그인후 페이지)

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"*%>

<!DOCTYPE html>

<html>

<head>

<title></title>

</head>

<body>

<h3>안녕하세요 수강신청홈페이지입니다!!</h3>

<p>

<a href=*"*${pageContext.request.contextPath}*/semsteroffers"*>학기별 이수

학점조회</a>

</p>

<p>

<a href=*"*${pageContext.request.contextPath}*/createoffers"*>수강 신청하기</a>

</p>

<p>

<a href=*"*${pageContext.request.contextPath}*/selectoffers"*>수강 신청

조회메뉴</a>

</p>

<c:if test=*"*${pageContext.request.userPrincipal.name != null}*"*>

<a href=*"javascript:document.getElementById('logout').submit()"*>Logout</a>

</c:if>

<form id=*"logout"* action=*"*<c:url value=*"/logout"* />*"* method=*"post"*>

<input type=*"hidden"* name=*"*${\_csrf.parameterName}*"*

value=*"*${\_csrf.token}*"* />

</form>

</body>

</html>

semsteroffers.jsp(학기별 이수학점조회 )

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title></title>

</head>

<body>

<form method=*"get"*>

<table border=*"1"*>

<tr>

<th height=*"20"* width=*"20"*>년도</th>

<th height=*"20"* width=*"20"*>학기</th>

<th height=*"40"* width=*"40"*>이수학점</th>

<th height=*"40"* width=*"40"*>상세</th>

</tr>

<tr>

<td height=*"40"* width=*"40"*>2018</td>

<td height=*"20"* width=*"40"*>1학기</td>

<td height=*"20"* width=*"40"*>12</td>

<td height=*"20"* width=*"40"*>

<p>

<a href=*"*${pageContext.request.contextPath }*/offers1"*>링크</a>

</p>

</td>

</tr>

<tr>

<td height=*"20"* width=*"40"*>2018</td>

<td height=*"20"* width=*"40"*>2학기</td>

<td height=*"20"* width=*"40"*>14</td>

<td height=*"20"* width=*"40"*>

<p>

<a href=*"*${pageContext.request.contextPath }*/offers2"*>링크</a>

</p>

</td>

</tr>

<tr>

<td height=*"20"* width=*"40"*>2019</td>

<td height=*"20"* width=*"40"*>1학기</td>

<td height=*"20"* width=*"40"*>18</td>

<td height=*"20"* width=*"40"*>

<p>

<a href=*"*${pageContext.request.contextPath }*/offers3"*>링크</a>

</p>

</td>

</tr>

<tr>

<td height=*"20"* width=*"40"*>2019</td>

<td height=*"20"* width=*"40"*>2학기</td>

<td height=*"20"* width=*"40"*>18</td>

<td height=*"20"* width=*"40"*>

<p>

<a href=*"*${pageContext.request.contextPath }*/offers4"*>링크</a>

</p>

</td>

</tr>

</table>

</form>

</body>

</html>

Offers1.jsp(2018-1학기 수강조회)

(나머지 학기는 생략)

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<body>

<c:forEach var = *"offer"* items =*"*${offers1}*"*>

<p><c:out value =*"*${offer} *"*></c:out>

</c:forEach>

</body>

</body>

</html>

createoffers.jsp(2020예상과목 수강신청)

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title></title>

</head>

<body>

<h3>2020예상과목 수강신청</h3>

<hr>

<form method =*"post"* action= *"*${pageContext.request.contextPath}*/docreate"*>

<table>

<tr> <td>년도:</td><td><input type =*"text"* name=*"year"*/></td></tr>

<tr> <td>학기:</td><td><input type =*"text"* name=*"semster"*/></td></tr>

<tr> <td>과목코드:</td><td><input type =*"text"* name=*"code"*/></td></tr>

<tr> <td>과목명:</td><td><input type =*"text"* name=*"name"*/></td></tr>

<tr> <td>구분:</td><td><input type =*"text"* name=*"classify"*/></td></tr>

<tr> <td>학점:</td><td><input type =*"text"* name=*"credit"*/></td></tr>

<tr> <td></td><td><input type =*"submit"* value=*"신청하기"*/></td></tr>

</table>

</form>

</body>

</html>