

■ Groups 테이블과 Idols 테이블 변경

1) Idols테이블

Column Name	Data Type	Nullable	Default	Primary Key
NO	NUMBER(9,0)	No	-	1
NAME	VARCHAR2(100)	No	-	-
IMAGE	VARCHAR2(200)	No	-	-
BIRTH_DATE	DATE	No	-	-
GROUP_NO	NUMBER(9,0)	No	-	-
				1 - 5

- image는 파일업로드할 사진

2) Groups 테이블

Column Name	Data Type	Nullable	Default	Primary Key
NO	NUMBER(9,0)	No	-	1
NAME	VARCHAR2(100)	No	-	-
DEBUT_DATE	DATE	No	-	-
MEMBER_NUM	NUMBER(3,0)	No	-	-
				1 - 4

- member_num은 멤버수

■ 로그인인터셉터의 구현

1) 로그인이 되어 있지 않을 경우 insertGroup.html / updateGroup.html / deleteGroup.html에는 접근이 불가능해야 함

2) interceptor로 처리

3) org.imw.ims.interceptor.LoginCheckInterceptor 생성

```
package org.imw.ims.interceptor;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
```

```

import org.imw.ims.vo.Member;
import org.springframework.web.servlet.ModelAndView;
import org.springframework.web.servlet.handler.HandlerInterceptorAdapter;

public class LoginCheckInterceptor extends HandlerInterceptorAdapter{
    //전처리
    //컨트롤러의 해당메서드가 작동되기 전
    @Override
    public boolean preHandle(HttpServletRequest request, HttpServletResponse response,
Object handler)
        throws Exception {

        //리턴값이 true면 그대로 작동
        //리턴값이 false면 작동안함

        //로그인했는지 확인해서 로그인 안되어있으면
        //index.html로 이동

        //System.out.println("LoginCheckInterceptor 전처리");

        //세션얻어옴
        HttpSession session = request.getSession();

        Member loginMember =
            (Member)session.getAttribute("loginMember");

        if(loginMember==null) {
            //로그인이 안되어 있음
            System.out.println("로그인안되어있음");
            response.sendRedirect("/index.html");

            return false;
        }

        System.out.println("LoginCheckInterceptor:"+loginMember);

        //로그인이 되어있음(아무 할일이 없음)
        return true;
    }

    //후처리
    //컨트롤러의 메서드가 리턴할때( 끝나고 난후)
    @Override
    public void postHandle(HttpServletRequest request, HttpServletResponse response,

```

```

Object handler,

        ModelAndView modelAndView) throws Exception {
    // TODO Auto-generated method stub

    System.out.println("후처리");

}

}

```

```

<mvc:interceptors>
    <mvc:interceptor>
        <mvc:mapping path="/deleteGroup.html"/>
        <mvc:mapping path="/insertGroup.html"/>
        <mvc:mapping path="/updateGroup.html"/>
        <bean class="org.imw.ims.interceptor.LoginCheckInterceptor"/>
    </mvc:interceptor>
</mvc:interceptors>

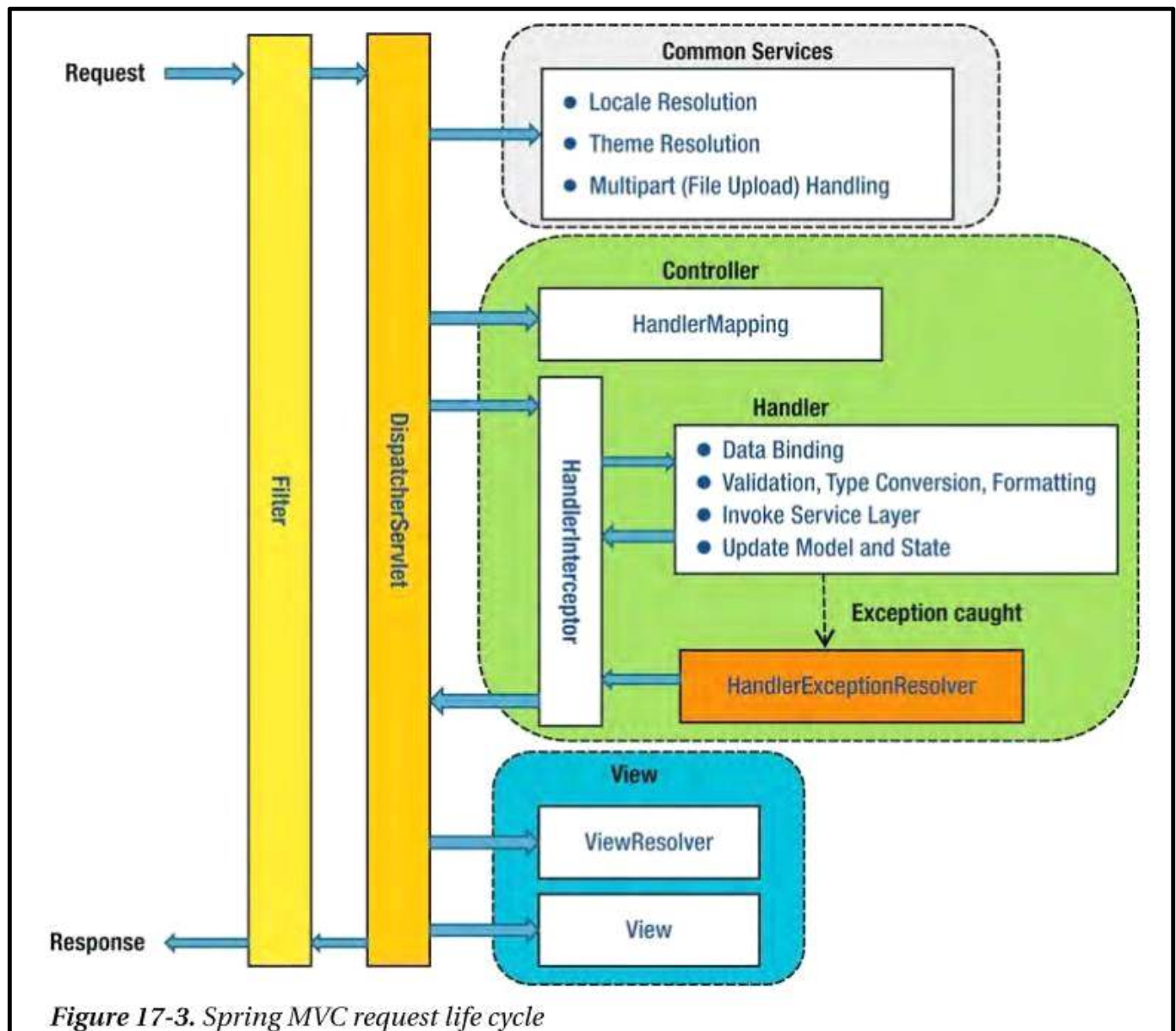
```

■ 인터셉터란?

1) intercept는 ‘가로채다’라는 뜻으로 농구에서 상대가 가진 볼을 빼앗을때 ‘인터셉트’했다고 표현

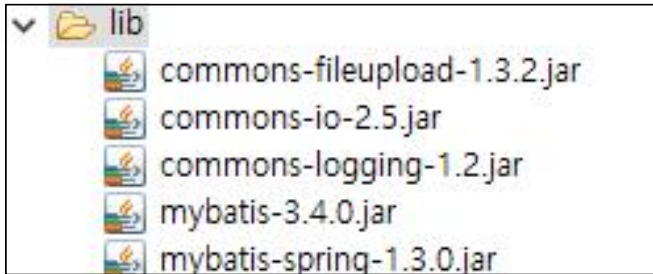


- 2) Spring MVC에서는 요청(예:/update.html)에 대해서 Controller가 작동되기 전에 그 요청을 가로채서 처리하고 컨트롤러로 넘기거나 응답을 할 수 있음
- 3) 로그인에 필요한 요청에 대한 전처리 가능
- 4) Spring MVC의 요청 처리 순서



■ 아이돌 insert할때 파일 업로드 구현

1) common-io / common-fileupload 가져다 놓기



2) Multipart처리를 위한 리졸버 설정

```
<!-- MultipartResovler -->
    <bean id="multipartResolver"
        p:defaultEncoding="UTF-8"
        p:maxUploadSize="104857600"
        class="org.springframework.web.multipart.commons.CommonsMultipartResolver"/>
```

3) Test를 위한 FileUploadController 생성

```
package org.imw.ims.controller;

@Controller
public class FileUploadController {

    @RequestMapping(value="/upload.html",method=RequestMethod.GET)
    public void form() {

    }

    @RequestMapping(value="/upload.html",method=RequestMethod.POST)
    public String upload(MultipartFile image, Idol idol ,HttpServletRequest request,
RedirectAttributes ra) {

        //1) ServletContext얻기
        ServletContext sc = request.getServletContext();

        //2) 기본경로 얻기
        String path = sc.getRealPath("");
```

```

//3) upload경로
String uploadPath = path+"upload"+File.separator;

//4) 200x200로 작게 만든 image경로
String profilePath = path+"profile"+File.separator;

//5) 고유한 값을 위한 UUID
UUID uuid = UUID.randomUUID();
String fileName = uuid+image.getOriginalFilename();

//6) 경로+파일이름
String fullPath = uploadPath+fileName;

//7) 실제 생성될 파일
File file = new File(fullPath);

try {
    //8) 파일 옮기기
    image.transferTo(file);
    System.out.println("파일 생성 성공");
    //9) 리사이징 (200x200)
    ResizeImageUtil.resize(fullPath, profilePath+fileName, 200);

} catch (Exception e) {
    System.out.println("파일 옮기기 실패");
}

//업로드된 사진의 이름
ra.addFlashAttribute("src",fileName);

return "redirect:upload.html";
}
}

```

4) test를 위한 upload.jsp생성

```

<%@ 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 lang="ko">
<head>
<meta charset="UTF-8">
<title>업로드 테스트</title>

```

```
<link rel="stylesheet" href="/css/font-awesome.min.css" />
```

```
<style>
```

```
#selectImage {  
    width: 200px;  
    height: 200px;  
    display: block;  
    border: 1px solid #424242;  
    cursor: pointer;  
    text-align: center;  
    position: relative;  
    margin: 10px 0;  
}
```

```
.fa-camera {  
    position: absolute;  
    left: 0;  
    top: 0;  
    width: 200px;  
    height: 200px;  
    display: block;  
    font-size: 150px;  
    line-height: 200px;  
}
```

```
#image {  
    width: 200px;  
    height: 200px;  
    position: absolute;  
    opacity: 0;  
    left: 0;  
    top: 0;  
    cursor: pointer;  
}
```

```
#imageCanvas {  
    position: absolute;  
    left: 0;  
    top: 0;  
    background: #fff;  
    display: none;  
}
```

```
#selectImage.selected #imageCanvas {  
    display: block;  
}
```

```
#selectImage.selected #deleteBtn {
```

```

        z-index: 2;
        display: block;
    }

    #selectImage.selected #loader {
        display: none;
    }

    #deleteBtn {
        position: absolute;
        right: 0;
        top: 0;
        width: 30px;
        height: 30px;
        border-radius: 15px;
        padding: 0;
        border: none;
        font-size: 30px;
        background: transparent;
        display: none;
        cursor: pointer;
    }

    #loader {
        width: 200px;
        height: 200px;
        background: url(img/loader.gif);
        background-repeat: no-repeat;
        background-position: center;
        position: absolute;
        left: 0;
        top: 0;
        background-color: #fff;
        z-index: 3;
        cursor: default;
        display: none;
    }
</style>
</head>
<body>
<h1>업로드 테스트</h1>
<form action="upload.html" method="post" enctype="multipart/form-data">
    <fieldset>
        <legend>업로드폼</legend>
        <input type="text" name="name" placeholder="이름" />
        <div id="selectImage" class="">
            <button type="button" id="deleteBtn">

```



```

        <i class="fa fa-times-circle"></i>
    </button>
    <i class="fa fa-camera"></i>
    <canvas id="imageCanvas" width="200" height="200"></canvas>
    <input type="file" name="image" id="image">
    <div id="loader"></div>
</div>
<button>업로드</button>
</fieldset>
</form>
<c:if test="${src!=null }">
    <h2>프로필이미지</h2>
    
    <h2>실제이미지</h2>
    
</c:if>
<script src="/js/jquery.js"></script>
<script>
    var $image = $("#image"),
        $canvas = $("#imageCanvas"),
        canvas = $canvas.get(0),
        ctx = canvas.getContext("2d"),
        $loader = $("#loader"),
        $selectImage = $("#selectImage"),
        $deleteBtn = $("#deleteBtn");

    $deleteBtn.click(function() {
        $selectImage.removeClass("selected");
        ctx.clearRect(0, 0, 200, 200);
        $image.val("");
    });

    $image.change(function() {

        $loader.show();

        var file = this.files[0];

        var reg = /^image\//;

        if (!reg.test(file.type)) {

            $loader.hide();
            alert("이미지를 선택해주세요~");

            $image.val("");

```

```

        return;
    }

    var reader = new FileReader();

    //파일을DataURL로 읽어옵니다.
    reader.readAsDataURL(file);

    //다 읽었으면 onload 이벤트 발생
    reader.onload = function() {
        //alert("다 읽었어요!");

        //alert(reader.result);

        //$("img").attr("src",reader.result);

        //이미지 객체 생성후

        img = new Image();
        img.src = reader.result;

        //이미지 로딩후
        img.onload = function() {

            var x = 0;
            var y = 0;

            var width = img.width;
            var height = img.height;

            var rate = width / height;

            // alert(rate);

            if (rate >= 1) {

                //alert("가로더김");
                width = height;
                x = (img.width - img.height) / 2;

            } else {
                // alert("세로더김");
                height = width;
                y = (img.height - img.width) / 2;
            }

            img.width = 200;

```

```

        img.height = 200;
        ctx.clearRect(0, 0, 200, 200);
        ctx.drawImage(img, x, y, width, height, 0, 0, 200, 200);

        $loader.hide();

        $selectImage.addClass("selected");

    };

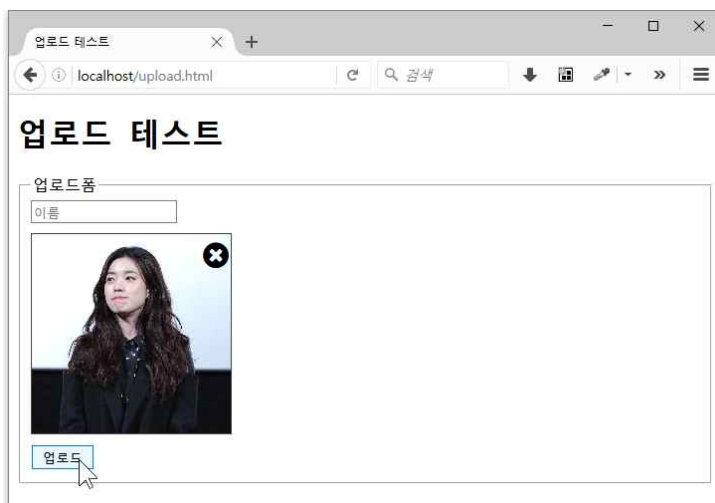
});
</script>
</body>
</html>

```

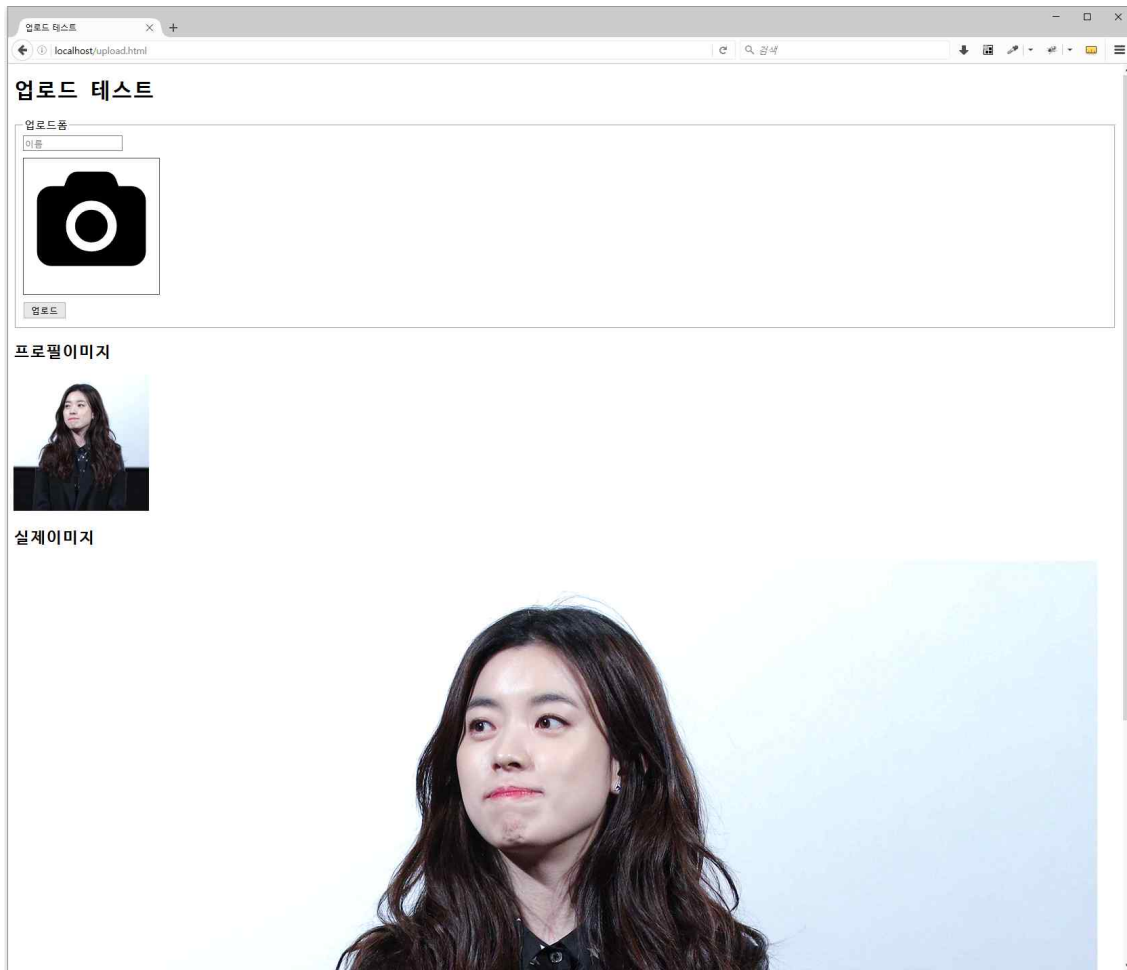
- 파일 선택 전



- 파일 선택 후



- 업로드 후



■ Idol VO / DAO / Service / mapper파일 만들기

1) Idol

```
package org.imw.ims.vo;

import java.sql.Date;

public class Idol {

    private int no,groupNo,year,date,month;
    private String name,image;
    private Date birthDate;

    public int getYear() {
        return year;
    }
}
```

```

    }

    public void setYear(int year) {
        this.year = year;
    }

    public int getDate() {
        return date;
    }

    public void setDate(int date) {
        this.date = date;
    }

    public int getMonth() {
        return month;
    }

    public void setMonth(int month) {
        this.month = month;
    }

    public Idol() {
        // TODO Auto-generated constructor stub
    }

    public int getGroupNo() {
        return groupNo;
    }

    public void setGroupNo(int groupNo) {
        this.groupNo = groupNo;
    }

    public String getImage() {
        return image;
    }

    public void setImage(String image) {
        this.image = image;
    }

    public Date getBirthDate() {

```

```

        if(birthDate==null) birthDate = Date.valueOf(year+"-"+month+"-"+date);
        return birthDate;
    }

    public void setBirthDate(Date birthDate) {
        this.birthDate = birthDate;
    }

    public int getNo() {
        return no;
    }
    public void setNo(int no) {
        this.no = no;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
}

```

2) IdolsDAO / IdolsDAOImpl

3) IdolsService / IdolsServiceImpl

4) idols.xml

■ Transaction 적용하기

1) transactionManger추가

```
<!-- 트랜잭션매니저 -->
<bean id="transactionManager"
      p:dataSource-ref="dataSource"
      class="org.springframework.jdbc.datasource.DataSourceTransactionManager"/>
```

2) annotaion으로 트랜잭션적용 가능하게

```
<tx:annotation-driven/>
```

3) 필요한 Service에 @Transactional 어노테이션 추가

```
@Transactional
@Override
public boolean add(Idol idol) {

    if(idolsDAO.insert(idol)>0) {

        if(groupsDAO.updateMemberNum(idol.getGroupNo())>0){
            return true;
        }

    }

    return false;
}
```