

# Document Upload Process:-

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#1 Add code in AppConfig.java

```
@Bean
    public CommonsMultipartResolver multipartResolver() {
        CommonsMultipartResolver cm=new
CommonsMultipartResolver();
        return cm;
    }
```

#2 Create Model class

```
package com.app.model;

import java.util.Arrays;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.Id;
import javax.persistence.Lob;
import javax.persistence.Table;
@Entity
@Table(name="docstab")
public class Document {
    @Id
    @GeneratedValue
    @Column(name="fid")
    private Integer fileId;
    @Column(name="fname")
    private String fileName;
    @Column(name="fdata")
    @Lob // Byte[] + LOB = BLOB
    private byte[] fileData;

    public Document() {
        super();
    }
}
```

```
    public Integer getFileId() {
        return fileId;
    }
    public void setFileId(Integer fileId) {
        this.fileId = fileId;
    }
    public String getFileName() {
        return fileName;
    }
    public void setFileName(String fileName) {
        this.fileName = fileName;
    }
    public byte[] getFileData() {
        return fileData;
    }
    public void setFileData(byte[] fileData) {
        this.fileData = fileData;
    }
    @Override
    public String toString() {
        return "Document [fileId=" + fileId + ", fileName="
+ fileName + ", fileData=" + Arrays.toString(fileData)
        + "]";
    }
}
```

#3 IDao and DaoImpl

```
package com.app.dao;
```

```
import com.app.model.Document;
```

```
public interface IDocumentDao {
```

```
    public Integer saveDocument(Document doc);
}
```

```
package com.app.dao.impl;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.orm.hibernate5.HibernateTemplate;
import org.springframework.stereotype.Repository;

import com.app.dao.IDocumentDao;
import com.app.model.Document;
@Repository
public class DocumentDaoImpl implements IDocumentDao {
    @Autowired
    private HibernateTemplate ht;

    @Override
    public Integer saveDocument(Document doc) {
        return (Integer) ht.save(doc);
    }
}
```

#4 IService and ServiceImpl

```
package com.app.service;

import com.app.model.Document;

public interface IDocumentService {

    public Integer saveDocument(Document doc);
}
```

```
package com.app.service.impl;

import
org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import
org.springframework.transaction.annotation.Transactional;

import com.app.dao.IDocumentDao;
import com.app.model.Document;
import com.app.service.IDocumentService;
@Service
public class DocumentServiceImpl implements IDocumentService
{
    @Autowired
    private IDocumentDao dao;

    @Transactional
    public Integer saveDocument(Document doc) {
        return dao.saveDocument(doc);
    }
}
```

#### #5 Controller Code

```
package com.app.controller;

import
org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import
org.springframework.web.bind.annotation.RequestMapping;
```

```
import
org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RequestParam;
import
org.springframework.web.multipart.commons.CommonsMultipartFi
le;

import com.app.model.Document;
import com.app.service.IDocumentService;

@Controller
@RequestMapping("/docs")
public class DocumentController {
    @Autowired
    private IDocumentService service;

    //1. show Document Page
    @RequestMapping("/all")
    public String showDocs() {
        return "Documents";
    }

    //2. on click upload
    @RequestMapping(value="/upload",method=RequestMethod.POS
T)
    public String uploadDoc(
        @RequestParam("fileOb") CommonsMultipartFile
file,
        ModelMap map)
    {
        if(file!=null) {
            //convert CMF data to Model class obj
            Document doc=new Document();
            //doc.setFileId(fileId); auto generated
            doc.setFileName(file.getOriginalFilename());
            doc.setFileData(file.getBytes());
            int id=service.saveDocument(doc);
        }
    }
}
```

```
        map.addAttribute("message", "Saved with  
Id:"+id);  
    }  
    return "Documents";  
}  
  
}
```

#6 JSP code

```
<%@ page language="java" contentType="text/html;  
charset=ISO-8859-1"  
    pageEncoding="ISO-8859-1"%>  
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01  
Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">  
<html>  
<head>  
<meta http-equiv="Content-Type" content="text/html;  
charset=ISO-8859-1">  
<title>Insert title here</title>  
</head>  
<body>  
<h2>welcome to Documents Page</h2>  
<form action="upload" method="post" enctype="multipart/form-  
data">  
<pre>  
    SELECT DOCUMENT: <input type="file" name="file0b"/>  
    <input type="submit" value="Upload"/>  
</pre>  
</form>  
<%=message%>  
</body>  
</html>
```