

Project Report

On DOCS4U



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Under the guidance of

Mr. Kalai Selvan

in partial fulfillment of the course of

e-Diploma in

CDAC ACTS

Knowledge Park, Bengaluru

CERTIFICATE

This is to certify that

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Has successfully completed the project on

Satisfactorily in partial fulfillment of the requirement of e-Diploma in Advance Computing at Centre for Development of Advanced Computing (CDAC), Bengaluru.

Mr. Kalai Selvan (**Project Guide**)

Uma Prasad (Course Coordinator)

ACKNOWLEDGEMENT

We would like to express our sincere gratitude to all the people without whom the report of this project would have been highly impossible.

We would like to devote our first vote of thanks to our guide Mr. Kalai Selvan for his constant support and encouragement. He has a great hand in the firm foundation of this project.

We are deeply in debt for his valuable suggestions, scholarly guidance and constructive criticisms along with constant encouragement at each and every step for successful completion of the project report.

Last but not the least we would like to thank all those who assisted us directly or indirectly for their valuable time and help.

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ABSTRACT

DOCS4U is a cloud platform made for interaction among students and teachers where specifically teachers can share their materials all along the class where students are feasible to access it with their respective validation of login credentials irrespective of time boundaries, limited resources with more availabilities.

The environment used for this project is JAVA. This project is based on advance JAVA i.e SPRING BOOT, SPRING MVC, HIBERNATE, My SQL Database. The software used for this java JDK1.7, Window 10 operating system and above.

INTRODUCTION

Docs4U being launched because a need for a destination that is beneficial for both teacher and student. With this system, teachers can upload the assignments and other important files like details of upcoming exams, schedule for classes. Students can view the uploaded documents by the teacher and can download them according to their needs.

Purpose

Docs4U fulfils the requirements of the teachers/students to conduct the exams online. This software is further more feasible then on-premise data center as it provides better student communication creating teacher management portals in addition It makes it easier for students to access the same materials and learning resources, regardless of the devices or internet browsers they use. The accessibility of web-based content for people with disabilities and across mobile platforms is improved. Educational institutes can have more resources to convey the study material among the students in remote areas.

What is Docs4U all about?

Docs4U is a web application that establishes a network between the teachers and students. Teachers will upload the required documents like time table, syllabus, pdfs, class assignments and many more informative documents.

Docs4U provides the platform but does not directly participate in. Documents are not posted by the system, but users of the system i.e., teachers. The system requires a teacher to login before posting the documents.

The system has an administrator who keeps an eye on the overall functioning of the system. The system entitled "Docs4U" is application software, which aims at providing services to the institutes and providing them with an option of uploading the documents by themselves. It is developed by using J2EE technology and MySQL database.

REQUIREMENT SPECIFICATION

• Software Requirement

Apache Tomcat Server:- Apache Tomcat, often referred to as Tomcat Server, is an open-source Java Servlet Container developed by the Apache Software Foundation (ASF). Tomcat implements several Java EE specifications including Java Servlet, Java Server Pages (JSP), provides a "pure Java" HTTP web environment in which Java code can run.

Tomcat is developed and maintained by an open community of developers under the auspices of the Apache Software Foundation, released under the Apache License 2.0 license, and is open-source software.

Eclipse IDE: -Eclipse is an integrated development environment (IDE) used in computer programming, and is the most widely used Java IDE. It contains a base workspace and an extensible plug-in system for customizing the environment. Eclipse is written mostly in Java and its primary use is for developing Java applications, but it may also be used to develop applications in other programming languages through the use of plugins.

MySQL: - MySQL is an open-source relational database management system based on SQL – Structured Query Language. The application is used for a wide range of purposes, including data warehousing, e-commerce, and logging applications.

Operating System: Window 10 or above

Front End: JAVA jdk1.7

• Hardware Requirement

Speed: 233 MHz and above

Hard Disk : 50GB or above

RAM : 2GB or above

FLOW OF EXECUTION OF PROJECT

We have followed the three-tier architecture in our project- service and DAO layer is built as a web service. So basically, it is independent from the Presentation layer. The relational database is adopted because it is made up of a group of logically connected tables (data that has a relationship to other data).

- 1. From the client side, after the successful login, when the student clicks on the 'download' button, she/he will be able to download the required document
- 2. After clicking 'download' button he/she can click on 'details' to check his details and then he/she can 'logout' from the page.
- 3. On clicking 'download' the control will go to the user controller of Service layer where it will find the post mapping and fetch the required file from the docs repository which is then connected to the MySQL database docs table.
- 4. Then it will return download object which is finally return to the download page to the Presentation layer and download the document into the user's computer/storage.
- 5. After this user will get an alert saying your file is successfully downloaded. And then student can logout of his /her page.

IMPLEMENTATION

Product Perspective:

(i) *User interfaces:* -The application will have a user-friendly interface. Following screens will be provided:

- A main page displaying the type of user whether it's a teacher or a student.
- A login screen for entering the username, password will be provided. Access to different screens will be based upon the user.
- There is a screen for uploading document by teacher.
- There is a screen for viewing the document uploaded by teachers.
- There is a screen for students to download the uploaded documents and can see their details.
- There is a screen for displaying list of teachers.
- There is a screen for displaying list of students.

Constraints: -

Memory Constraints

- At least 512 MB RAM and 125 MB space on hard disk will be required for running the application.
- The system may become slow with the increase in number of records being stored.

Design Details: -The design details include the following

- Static structure: The static structures of the web application represent the class diagram.
- Behaviour: -The behaviour of the web application explains you the various actions and the flow of the web application.
- User Interface: -The user interface is one of the major things on the web application end, since many users come to a conclusion on the standards and services of the application by looking at it. Having a good UI is very important.
- Components: This describes a class that includes the attributes and methods. It also says the exceptions that may rise on the mobile application part.

HIGH LEVEL DESIGN

MODULES AND THEIR DESCRIPTOIN

Administrator module

The administration process can be complex and must be properly planned and managed to ensure a successful project. Administrators are a professional team trained to follow a project plan that has been designed specifically for you. Administrator develops software and enhances its process. Administrator in Docs4U project. Administrator has the privilege to create type of users and display list of students and teachers, it can edit the information related to teachers and students. It can delete the user and can view the document uploaded by teachers and students.

Student module

Student has to enter the name and password before he/she proceed to login to his/her page. Student click the download button and download of document starts, after downloading the documents he/she can logout from page.

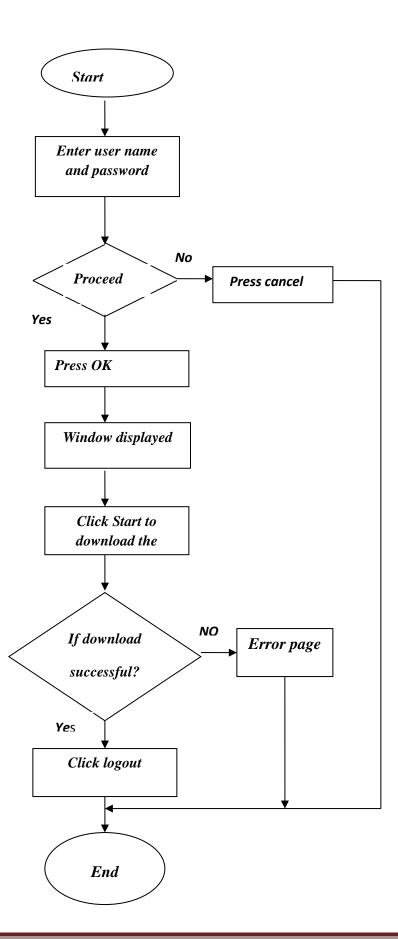
- Enter name and password.
- Select the document.
- Download the document.
- Logout of the account page.

Teacher module

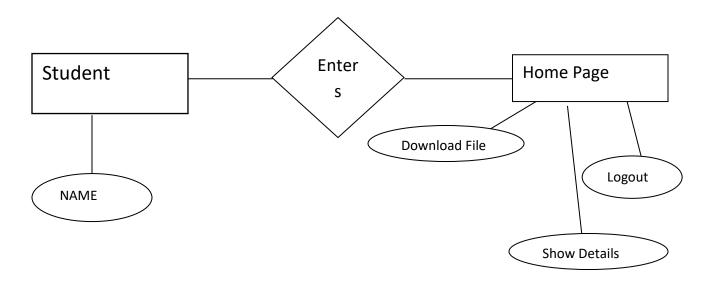
Teacher has to enter the name and password before he/she proceed to login to his/her page. Teacher click on upload button, after uploading the documents he/she can see the details of the uploaded document and can logout from page.

- Enter name and password.
- Select the document.
- Upload the document.
- View details of uploaded documents.
- Logout of the account page.

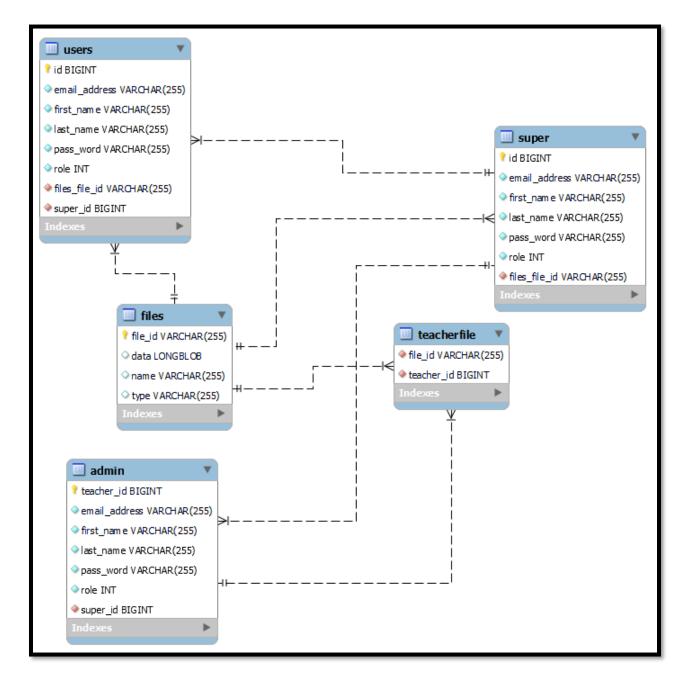
FLOW CHART



E-R DIAGRAM

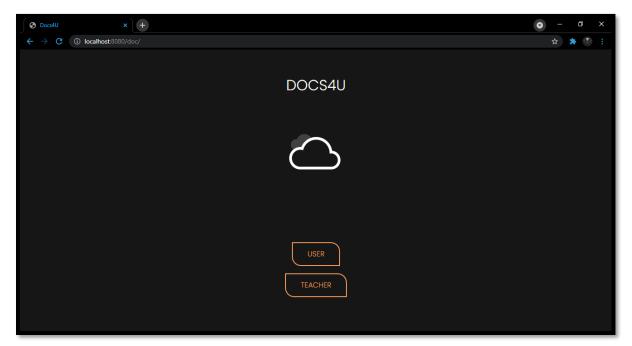


CLASS DIAGRAM FOR DATABASE:



PROJECT DESCRIPTION

Main Page



Fig(a). Main Page

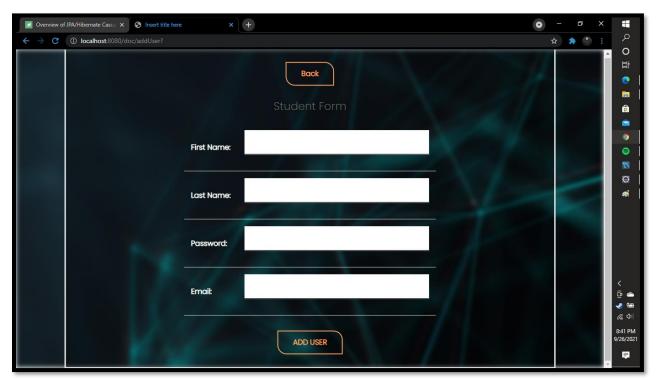
Administrator Module



Fig(b). Admin Login



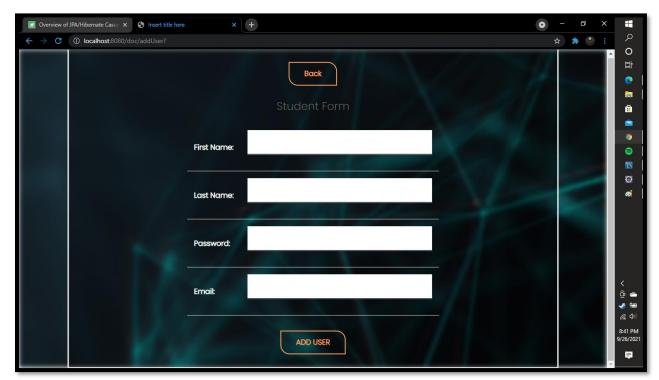
Fig(c). Admin Welcome



Fig(d). Creating User



Fig(e). Editing Student Details

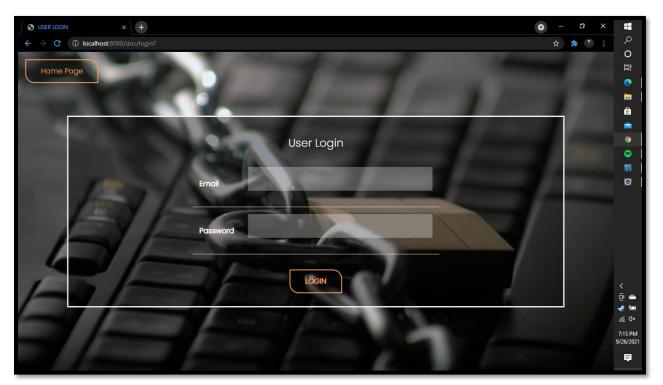


Fig(f). Creating Teacher

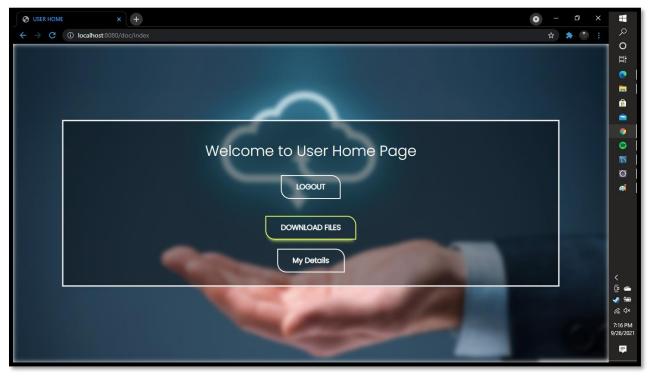


Fig(g). Editing Teacher Details

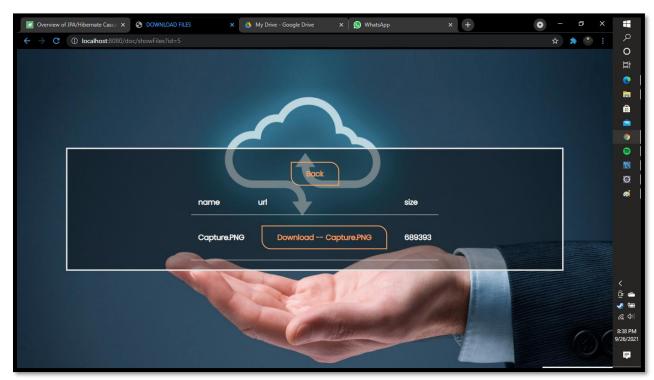
User Module



Fig(h). User Login

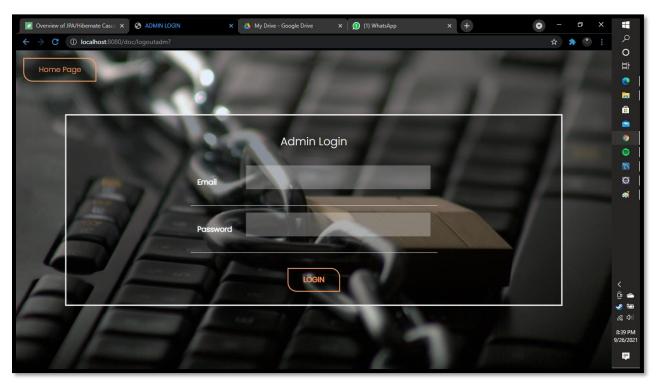


Fig(i). User Home Page

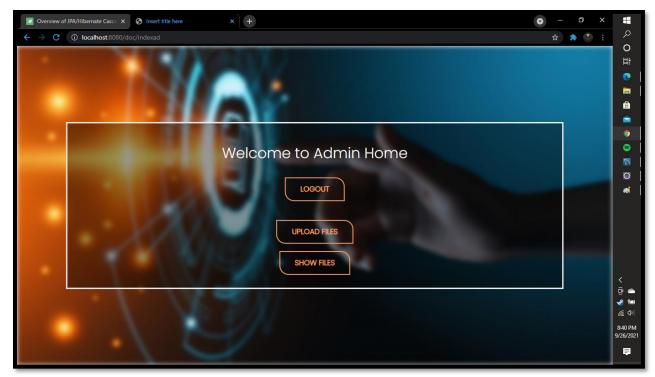


Fig(j). User Download Page

Teacher Module



Fig(k). Teacher Login



Fig(l). Teacher Home Page



Fig(m). Teacher upload Page

Code included in Docs4u: -

LOGIN LOGIC WITH MAPPING

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           @GetMapping("/logoutadm")
public ModelAndView logoutA(HttpServletRequest request, HttpServletResponse response) throws IOException {
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               HttpSession session = request.getSession(false);
session.invalidate();
ModelAndView mv = new ModelAndView("loginad");
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                                                                                                                                                                                                        ø
            public \ String \ logina (@ModelAttribute("admin") \ Admin \ admin, HttpServletRequest \ request) \ \{ \\
               System.out.println(admin.getEmail());
System.out.println(admin.getFassword());
Admin outwhddmin = adminservice.logina(admin.getEmail(), admin.getPassword());
HttpSession session = request.getSession(true);
System.out.println(outwhddmin);
                                                                                                                                                                                                      Ġ 4
               if(Objects.nonNull(oauthAdmin)) {
    session.setAttribute("user id", oauthAdmin.getId());
    session.setAttribute("role", oauthAdmin.getRole());
    return "redirect:/indexad";
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Fig(a). Login back-end (teacher)

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                                                       package com.text.doc.services;
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  > 📆 Deployment Descriptor: doc
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  > A JAX-WS Web Services

✓ B src/main/java
                                                    4⊕ import java.util.List;[
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    DocApplication.java
    ServletInitializer.java

                                                      public class AdminService {
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⊕ com.text.doc.constants

                                                                                                                                                                                                            private AdminRepository repo:
    > 📝 SqlQueries.java

• 🔠 com.text.doc.controller
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                                                   public Admin logina(String email, String password) {

Admin admin = repo.findByEmailAndPassword(email, password);

return admin;
                                                                                                                                      //oauth pass email for login
       > AdminController.iava
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        > 1 DocController.java
> 1 SuperAdminController.java
                                                                                                                                                                                                            UserController.java
                                                                                                                                                                                                            0
     public boolean addUser(Admin admin) {
  boolean isAdded = false;
  admin.setRole(2);
  if(repo.save(admin)!=null) {
    isAdded = true;
      return isAdded;
  }else {
    return isAdded;
}

        > ResponseMessage.java
         com.text.doc.exceptions
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⊕ com.text.doc.model

        > Admin.iava
         Docs.java
SuperAdmin.java
        User.java
     SuperAdminRepository.java

UserRepository.java
                                                           public Admin getAdminbvId(long id) {
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456
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47
                                                               Admin admin = repo.getById(id);
                                                                                                                                                                                                          Ĝ 🍨
     return admin;
       > 🚺 AdminService.java
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         DocsStorage.java

    SuperAdminService.java

         UserService.java
                                                           public List<Admin> getAllAdmin(){
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    # src/main/resources
    # src/test/iava
                                                               List<Admin> adminList = repo.findAll():
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Fig(b). Fetching email & password for login(repository)

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eclipse-workspace - doc/src/main/webapp/WEB-INF/pages/loginad.jsp - Eclipse IDE
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Email <input type="text" name="email"/>
Password <input type="text" name="password"/>
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<button class="raise">LOGIN</button>
@/div>
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Fig(c). Login front-end(teacher)

FILES UPLOAD LOGIC WITH MAPPING

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                                                        290 @RequestMapping(value="/uploadpage",method=RequestMethod.GET)
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    强 Deployment Descriptor: doc
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    public String Uploadp()
  return "uload";
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                                                                                                                                                                                                                                  â
         @RequestMapping(value="/upload" ,method=RequestMethod.POST)
public String uploadfile(@RequestParam("file") MultipartFile file, @RequestParam("teacherId") long teacherId) {
    String message = ";
    System.out.println(teacherId);
    try (
        docsstorage.store(file,teacherId);
}
                                                                                                                                                                                                                           #
           com.text.doc.constants
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→ A com.text.doc.controller

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       > AdminController.java
> DocController.java
                                                                                                                                                                                                                                  8
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                                                                   message = "Uploaded the file successfully: " + file.getOriginalFilename();
//return ResponseEntity.status(HttpStatus.OK).body(new ResponseMessage(mes
return "uload";
          SuperAdminController.java
                                                                                                                                                                                                                                  UserController.java
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→ 

⊕ com.text.doc.docResponse

                                                                   calcn (exception e) {
    message = "Could not upload the file: " + file.getOriginalFilename() + "!";
    // return ResponseEntity.status(HttpStatus.EXPECTATION_FAILED).body(new ResponseMessage(message));
    return "uload";
        > 

Response.java

ResponseMessage.java
                                                                 } catch (Exception e) {
  message = "Could not u
                                                                                                                                                                                                                                   13
     > # com.text.doc.exceptions
       # com.text.doc.model
     > de com.text.doc.repositories

• de com.text.doc.services
                                                               @RequestMapping(value="/files5",method=RequestMethod.GET)
public ModelAndView getListFile(@RequestParam("teacherId") long teacherId) {
        AdminService.iava

    DocsStorage.java
    SuperAdminService.java

                                                                 UserService.java
    src/test/java
                                                                                                           //download files for teacher as per id
    ■ JRE System Library [JavaSE-1.8]
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  > Maven Dependencies

Output

Deployed Resources
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                                                                 return new Response(
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✓ 🎥 WEB-INF
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fileDownloadUri,
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addTeachers.jsp
createuser.jsp
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                                                                         dbFile.getType(),
dbFile.getData().length):
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```

Fig(d). Upload back-end (teacher)

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V ☐ doc ☐ 30 private AdminRepository adminRepo;

☑ UserControll...

☐ teachList.jsp
☐ down.jsp
☐ Docs4U
☑ AdminServic...

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  > 🛅 Deployment Descriptor: doc
                                                         2⊝ public Docs store(MultipartFile file, long teacherId) throws IOException {
                                                                                                                                                                                                                           0
   > A JAX-WS Web Services
                                                                Admin currTeacher = adminRepo.getById(teacherId);
String fileName = StringUtils.cleanPath(file.getOriginalFilename());
Docs FileDB = new Docs(fileName, file.getContentType(), file.getBytes());
currTeacher.getFilelist(),add(fileDB);
return docsrepository.save(FileDB); // uploading files to database

✓ 

    de com.text.doc

                                                                                                                                                                                                                           <u>•</u>
         DocApplication.java

ServletInitializer.java
                                                                                                                                                                                                                                  â
                                                                                                                   // uploading files to database as per teacher id
                                                                                                                                                                                                                           > ☑ SqlQueries.java
✓ ﷺ com.text.doc.controller
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                                                             public Docs getFile(String id) {
  return docsrepository.findById(id).get();
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        > AdminController.java
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        > DocController.java
> DocController.java
                                                                                                                                                                                                                            ▣
                                                                                                                                                                                                                                  public Stream<Docs> getAllFiles() {
  return docsrepository.findAll().stream();
          UserController.java
                                                                                                                                                                                                                                  0

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⊕ com.text.doc.docResponse

       >  Response.java
>  ResponseMessage.java
                                                              public Stream<Docs> getfileList(long teacherId){
                                                                                                                                                                                                                                   73
                                                                   # com.text.doc.exceptions
                                                                                                                                                                                                                                   øĬ
       # com.text.doc.repositories
       com.text.doc.services

AdminService.java
                                                             > DocsStorage.java
         SuperAdminService.java

UserService.java
                                                               Docs Time - """.

fy {
    file = docsrepository
        .findById(fileId)
        .orelseThrow(() -> new ResourceNotFoundException("User not found on :: " + fileId));
    catch (ResourceNotFoundException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
    # src/main/resources
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    Maven Dependencies
    Deployed Resources
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       docsrepository.delete(file);
return isDeleted;
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                createuser.isp
                down.isp
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```

Fig(e). File's logic: upload download delete

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   # src/test/java
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   ■ JRE System Library [JavaSE-1.8]
                                                                                                                                                                                 0
  > Maven Dependencies

Output

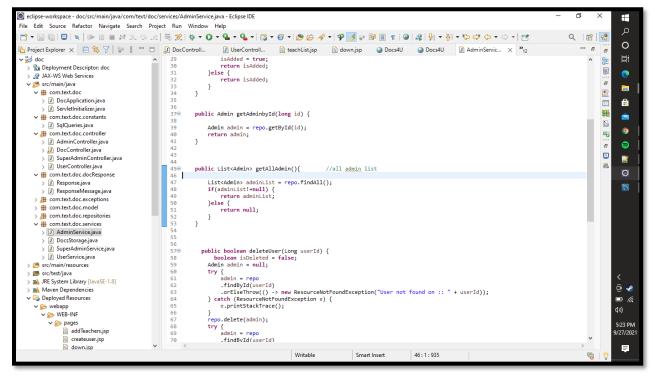
Deployed Resources
                                                 }
bbc_image {
background-image: url('static/styles/admi.jpg');
filter: blur(Bpx);
-webkit-filter: blur(Spx);
background-repeat: no-repeat;
background-attachment: fixed;
background-size: cover;
height: 100%;
                                                                                                                                                                                      ✓ ℘ webapp
✓ ℘ WEB-INF
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             error.jsp

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             login.jsp
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<input type = "file" name = "file"/>
<button class="raise">UPLOAD FILE</button>
             superlogin.jsp
             superwelcome.jsp
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             teacherlist.jsp
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            teachList.jsp
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                                                               function myFunction() {
  alert("File Uploded");
}
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 > 🤛 src
> 🗁 target

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```

Fig(f). Upload front-end(mapping)

FILES DOWNLAOD LOGIC WITH MAPPING



Fig(g). Fetch Admin list (download files as per teacher list)

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<c:forEach var="files" items="${files}">
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              superwelcome.jsp
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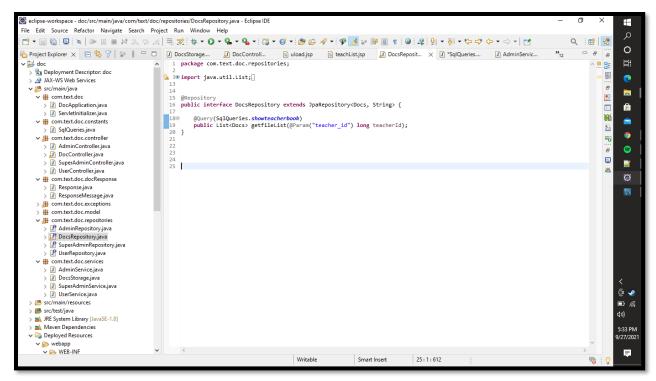
               teachList.jsp
               uload.jsp

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    pom.xml
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html/body/div/div/div/table/tr/#text
```

Fig(h). Download files front-end (mapping)

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🧱 eclipse-workspace - doc/src/main/java/com/text/doc/controller/UserController.java - Eclipse IDE
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           @GetMapping("/teachList")
public ModelAndView getTeacherList() throws IOException {
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               ModelAndView mv = new ModelAndView();
ListsAdmin> teacherList = adminService.getAllAdmin();
System.out.println(teacherList.toString());
mv.setViewName("teachList");
mv.addObject("viewList", teacherList);
return mv;
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           public ModelAndView editTeacher(HttpServletRequest request) {
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                  dbFile.getType(),
    dbFile.getData().length);
}).collect(Collectors.toList());
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■ ((:
                  System.out.println(files.toString());
ModelAndView mv = new ModelAndView();
                   mv.setViewName("down");
mv.addObject("files",files);
                 System.out.println(files);
//ResponseEntity.status(HttpStatus.OK).body(files);
return mv;
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```

Fig(i). download files back-end (User)



Fig(j). SQL Repository mapping as per teacher's list

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📓 eclipse-workspace - doc/src/main/java/com/text/doc/constants/SqlQueries.java - Eclipse IDE
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                                                                                                                                 package com.text.doc.constants;
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> A JAX-WS Web Services
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                                                                                                                                     // select " from files
// Join teacherfile,
// on(teacherfile, file_id=files.file_id)
// Join admin
// Join admin
// where admin.teacher_id=1
// where admin.teacher_id=1
// where attic final String showteacherbook = "SELECT d FROM Docs d join d.teacherList"
+ "tList where tlist.teacherId= :teacher_id=";
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SuperAdminController.java
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                # com.text.doc.exceptions
               e com.text.doc.model
                # com.text.doc.repositories
               # com.text.doc.services

AdminService.java
                  > DocsStorage.java
> DocsStorage.java

    UserService.java

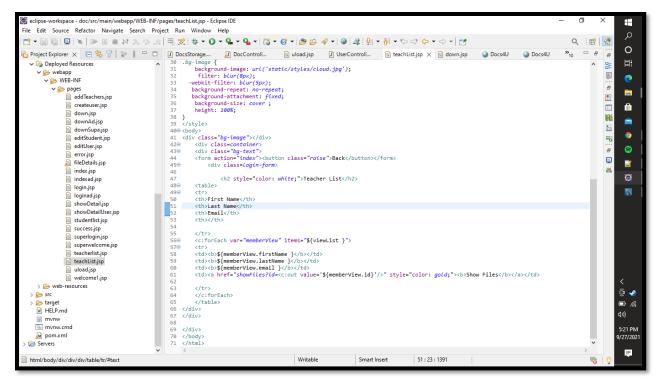
        # src/main/resources
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          Maven Dependencies
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```

Fig(k). SQL Query to fetch files as per teacher's list



Fig(l). Show files as per teacher's list(Student)

REVIEW DOCUMENT

Date: 28 September, 2021

Members: Navneet Singh, Garima Tiwari, Piyush Pachpande, Vaibhav Agrawal, Anmol Sharma.

Issue:

Course: Development Advanced Computing (DAC)

LESSONS LEARNT

- **Importance of RESEARCH:** We have used few technologies in our project, among them JAVA. Java technology is both a programming language and a platform, the Java programming language is a high-level language, high-level Java programming language is a powerful software platform.
- **Team Work:** By the end of this project we will end up as an effective and coordinating team as we understood the importance of the team work by the guidance of our mentor. Our team is a good combination of challenging and hardworking people. Throughout this project we have learnt a lot about team coordination, planning, presentation and developing personal attitude towards teamwork.
- Time Management: To become successful, one must have good time management as it considered as one of the important qualities in the current competitive world. Keeping our mentor suggestions in mind we were able to implement and manage things in time. Meeting the various deadlines set by the instructor was tough and gave us a valuable experience of how to effectively manage time and as well the mentor's expectations were sometimes very challenging and finally our project timeline was nearly accurate.
- Authorization &fetching of documents: How to send documents across the Server and receive them i.e., saving and retrieving documents from the database and displaying them in the frontend. About authorization and how to implement it

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2. Programming with Java

By: -E Balagurusamy

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- https://en.wikipedia.org/wiki