BITM DIGITAL LOCKER SYSTEM

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Abstract: "Digital locker will provide secure access to Government issued documents and VTU affiliated Certificates". It is aimed at eliminating the use of physical documents and enables sharing of verified electronic documents across Government agencies and college purpose. Digital locker will reduce the administrative overhead of college administration and Government agencies created due to paper work. It will also make it easy for the students to receive services by saving time and effort as their documents will now be available anytime, anywhere and can be shared electronically.
Keywords: Databases, Programming

I. INTRODUCTION

Digital locker is a service to provide a secure dedicated personal electronic space for storing the documents of students. The space can be utilised for storing personal documents like University certificates, PAN cards, Voter ID cards, Hall tickets, College ID card. The service is intended to minimize the use of physical documents and to provide authenticity of the documents. It will also provide secure access to University and Government issued documents. It also makes it easy for students to receive services. It reduces the time spent by the students standing in queue to collect hardcopy of the documents from the administrative office. If there are any mistakes in the certificates, students can directly interact with admin through this application. Whenever the students want to share their documents with others, they can share them within a fraction of seconds.

II. RELATED WORK

A. Purpose of the document
This paper is the Software Requirement Specification (SRS) for the BITM Digital Locker system. The purpose of this paper is to describe the functionality, requirements and general interface of our project.

B. Scope for development of this paper
Students can show their hall tickets through this application if they loose it and also they can show their id proofs when required.
Main Modules of the system.
1. Student-
- In this module student has to register, then they can login and upload the user private documents such as Voter id, Aadhaar card, Passport etc., to their account according to the category.
- Students can share their documents with admin and also with other students.
- Students can view and download the documents issued by the admin.

- Students can fill Issue Certificate form to request admin for required documents.
- If any student lose their Certificates and if it is found by any other students, they can notify about the Certificate to all other students as well as to the admin when that has been handed over to the admin so that the student who have lost that particular certificate can come and collect it from admin.

2. Admin-
- In this module admin will login, then he/she can add categories such as Marks card, Voter id, Hall ticket, College id card, etc.,
- Admin can send documents such as Marks card, Hall tickets, Study certificate etc., to students by selecting category and USN.
- Admin can retrieve the documents uploaded by any student according to the category by selecting their USN.
- Admin can send documents such as Study Certificate, Provisional marks card,Transfer Certificate etc., which are requested by the students in a issue Certificate form.
- Admin can view a notification sent by the student who found the lost document of another student and he will return it back to the student who lost it.

III. EXISTING SYSTEM

Current systems are manually collecting documents from administrative office and carry them when required.

Limitaions of the existing system
- There may be a chance of losing documents while carrying manually.
- Document will not be available during emergency(Anytime and Anywhere)'
- Takes more time to receive documents directly from college administrative department.

IV. PROPOSED SYSTEM

Is a web portal or mobile application where students can receive documents to their respective accounts directly from college administrative office through online.

Benefits of Proposed System
- Prevents loss of documents.
- Documents can be accessed anytime and anywhere.
- No need to wait till the hard copy of documents is received from administrative officer.
- Notifies lost document.

- Study certificate and Provisional marks card can also be accessed.

V. REQUIREMENTS AND SPECIFIACTIONS

A. Functional Requirements

1. Admin should be able to

- login to the system through the first page of the application
- Can add the category
- Based on the Category Admin can send documents to the specific student.
- View records which are uploaded by the students.
- Send the documents like Study Certificates ,Tranfer Certificate, etc., that are requested by the students.

2. Students should be able to

- Register and login to the system through the first page of the application
- Upload their private documents according to the category.
- Share documents with admin as well as with students.
- View and download documents issued by the admin.
- Can request for other documents like study certificate ,transfer certificate, etc., by filling Certificate form.
- Can notify about lost document.

B. Non-Functional Requirements

Reliability:
The capability to maintain the specified level of performance is called reliability.
Unauthorized person will not be able to access the details.

Availability:
This system must be readily available to students who need to access their documents anytime.(24*7)
The system must work relatively fast and must provide the data on request as soon as possible without affecting the quality and accuracy.

Security:
This system must be highly secured and must authenticate users strictly.
This system would require handling confidential data. This system must keep the documents with more security as they will be stored in student's private account.

Maintainability:
Maintenance is typically done after the software development has been completed. As the time evolves, so do the requirements and needs. It revolves around the understanding of the existing software and the effects of the change.

Portability:
Portability is the ability of the system or application that can run in various environments. As the web application is based on the java language, the application is portable.

C. Minimum Hardware Requirements

- Processor   :CORE i5
- Hard Disk   :126 GB
- RAM   :8 GB

D. Software Requirements

- Operating System   :Windows XP/7/8/10
- Database   :MYSQL
- Database connectivity   :JDBC
- Server   :Apache Tomcat 5/6
- IDE   :Eclipse
- Scripting   :Java, JSP
- Server Side   :JavaScript
- Java Version   :JDK 1.6

VI. SYSTEM DESIGN

USECASE DIAGRAM
A use case diagram is a graph of actors, a set of use cases enclosed by a system boundary, communication associations between the actors and users and generalization among use cases.
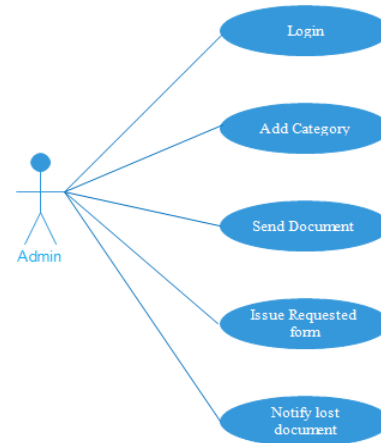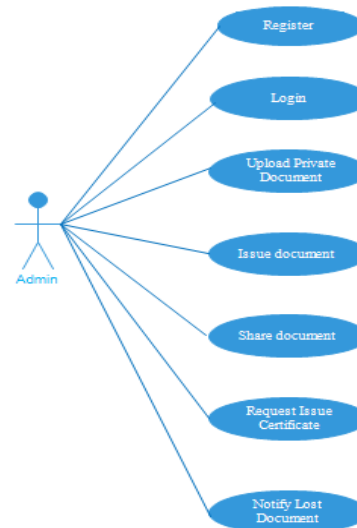
ADMIN:

Fig 3.1 Usecase Diagram for Admin

STUDENT:

Fig 3.2 Usecase Diagram for Student

VII. ACTIVITY DIAGRAM

The activity diagram focuses on representing activities or chunks of processing which may or may not corresponded to the methods of classes
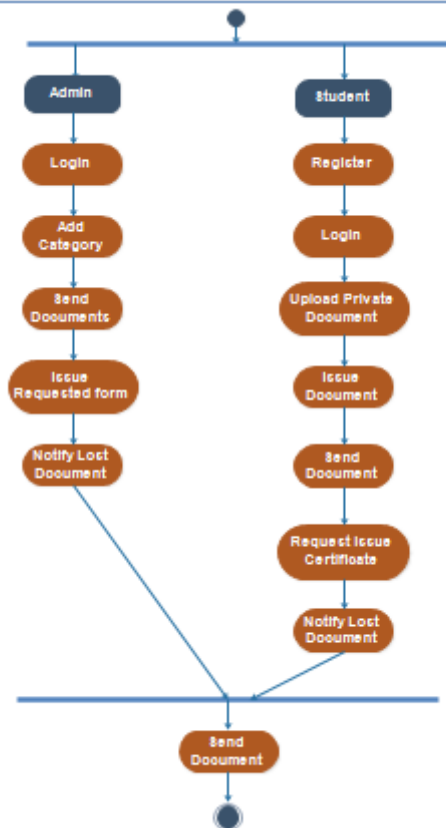

Fig 3.3 Activity Diagram

VIII. CONCLUSION

This project can be used by the students to store their private documents safely with more security. Its main aim is to eliminate carrying of documents physically. Each student will have their own username and password to login to their respective accounts. Since admin issues documents directly to the students according to their USN, it overcomes fraudness and also it reduces the time spent by the students to collect hardcopy of the documents from the administrative office. It also makes it easy for students to receive services.

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