

**AN
INTERNSHIP REPORT
On**

INDIADOCS

Submitted
by
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201430116015

Guided By:
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An
Internship Report
Submitted to



Gujarat Technological University

In fulfillment for the award of degree of Bachelor of Engineering
in

Information Technology
ACADEMIC YEAR – 2024



NEW L. J. INSTITUTE OF ENGINEERING AND TECHNOLOGY

Pakwan, Behind Rajpath Club Gate to Sindhu Bhavan Road,
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NEW L. J. INSTITUTE OF ENGINEERING AND TECHNOLOGY

CERTIFICATE

This is to certify that the Internship report submitted along with the project entitled Internship in **INFOLABZ IT SERVICES PVT. LTD.** has been Completed by **JOSHI HARSHIT NITENDU** under my guidance in complete fulfilment for the Bachelor of Engineering in **Information Technology** Branch, 8th Semester of **Gujarat Technological University**, Ahmedabad during the academic year 2024.

Date:

Place: NEW LJiet, Ahmedabad.

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Seal of Institute

INTERNSHIP CERTIFICATE



NEW L. J. INSTITUTE OF ENGINEERING AND TECHNOLOGY

DECLARATION

We hereby declare that the Internship report submitted along with the Internship entitled **INDIADOCS** submitted in Complete for Bachelor of Engineering in **Information Technology** Branch to **Gujarat Technological University**, Ahmedabad, is a bonafide record of original Internship work Completed by me at **Infolabz IT Services Pvt. Ltd.** under the supervision of **Ms. Rahul Raghani** and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of Student

JOSHI HARSHIT NITENDU

Signature of Student

ACKNOWLEDGEMENT

I wish to express my sincere gratitude to my **External guide Ms. Rahul Raghani** for continuously guiding me at the company and answering all my doubts with patience. I would also like to thank **Dr. Gayatri Pandi (H.O.D. of IT Department)** for motivating me every time whenever I get confused, I would also like to thank my **Prof. Helee Shukla** for helping me through my internship by giving me the necessary suggestions and advices along with their valuable co-ordination in completing this Internship.

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Thus, in conclusion to the above said, I once again thank the staff members of **Infolabz IT Services Pvt. Ltd.** for their valuable support in completion of the Internship.

Thank You

JOSHI HARSHIT NITENDU
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Date:

Signature of Student

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INDIADOCS- UPLOAD, SAVE AND SHARE A FREE DOC SHARING SYSTEM

Enrollment No.: 201430116015

Student Name: JOSHI HARSHIT NITENDU

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Semester: VIII, Information Technology Department

ABSTRACT

INDIADOCS is an advanced document sharing system developed with Python-Django, offering a seamless platform for users to upload, save, and share documents with ease. With three distinct modes of sharing—public, private, and protected—users have control over document accessibility, ensuring flexibility in collaboration. The system prioritizes user experience through intuitive interfaces and streamlined functionalities, facilitating effortless navigation and operation. Users can easily upload and manage documents, choosing the appropriate level of accessibility for each. In the Public mode, documents are openly available for community collaboration. The Private mode ensures confidentiality, restricting access to the uploader. For added security, the Protected mode allows users to share documents with specific individuals or groups, with defined access permissions. India Docs revolutionizes document sharing, providing a user-friendly interface and robust security features tailored for the Indian context. Whether for public projects, personal document management, or secure information sharing, India Docs is the go-to platform for efficient and secure document collaboration.

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CHAPTER: 1

INTRODUCTION OF PROJECT & COMPANY PROFILE

1.1 Introduction

InfoLabz IT Services Pvt. Ltd. is a leading IT company that provides technical solutions and services. We strive to provide you with innovative and client-focused solutions. We help our customers modernise their networks in order to improve their market strategy and profitability. We provide excellence while ensuring quality customer service with our expert team, advanced technologies, and seamless processes. Our mission is to deliver best-in-class services with top-notch quality. Our vision is to sustain the exponential growth of the IT industry.

1.1.1 Company Profile

Established in 2016, incorporation with our parent it company, infolabz it services pvt. Ltd. Has managed to make it's own position in it sector. We are involved in web development, app development, data science, progressive web application development, iot solutions, graphics & designing, digital marketing, domain & hosting services, sms services etc. Our objective is to sustain with exponential growth in it industry. Our mission is to deliver the best with top notch quality every quarter and vision is to develop a product with one of its kind concept which could be used by millions of people.

We are committed to...

- On time delivery
- Quality work
- Top notch tech stack selection
- Best architecture design
- Data safety

1.1.2 Company Services

Our full range of services is intended to meet your project and business needs.

1. Custom Software Development

- Using our extensive experience, we create customised solutions that propel your company's success to new heights.

2. Web Development

- You need skilled web developers for robust web solutions. You can build a successful website with the assistance of our team of expert resources.

3. Mobile Apps Development

- We keep up with cutting-edge technologies in this fast-paced era to increase productivity and develop more reliable mobile applications.

4. IOT Solution Providers

- From small businesses to large corporations, the IoT is all around us. We use IoT to make your business stronger and more successful.

5. UI/UX Designs

- With a perfect blend of professionalism and stunning creativity, our expert designers can establish a bright profile for your business in the digital world.

6. Data Science and ML Development

- Discover new business opportunities and solve real-time problems by using data science and machine learning.

1.1.3 Company Mission and Vision

Company Mission:

- Our mission is to deliver best-in-class services with top-notch quality.

Company Vision:

- Our vision is to sustain the exponential growth of the it industry.

1.2 Introduction of the Project

Development of INDIADOCS, a free document sharing system using Python-Django. Facilitates the upload, save, and sharing of documents with three modes: public, private, and password-protected. Aiming to provide a user-friendly and secure platform for document management and collaboration.

1.2.1 Purpose of the Project

Traditional document sharing systems lack flexibility in privacy settings. Limited options for users to control document accessibility. Security concerns with generic file-sharing platforms. Inefficient collaboration features in existing systems.

INDIADOCS offers a dynamic document sharing platform with three distinct modes: public, private, and password-protected. Enhanced security features to safeguard sensitive information. User-friendly interface for seamless document uploading and management. Improved collaboration tools to foster efficient teamwork.

1.2.2 Functional Requirements

User Authentication:

- Registration and login functionality.
- Password retrieval/reset option.

Document Upload:

- Users can upload documents in various formats.
- Option to set privacy mode during upload.

Privacy Modes:

- Public mode for open access.
- Private mode for restricted access.
- Password-protected mode for controlled access.

Document Management:

- Users can view, edit, and delete their uploaded documents.
- Option to organize documents into folders.

1.2.3 Problems In Existing System

- Traditional document sharing systems lack flexibility in privacy settings.
- Limited options for users to control document accessibility.
- Security concerns with generic file-sharing platforms.
- Inefficient collaboration features in existing systems

1.2.4 Main Modules

Authentication Module:

- Manages user registration, login, and profile details.
- Password retrieval and reset functionalities.

Document Management Module:

- Handles document upload, storage, and retrieval.
- Organizes documents into folders.

Privacy Control Module:

- Implements privacy settings for documents
- Controls document accessibility in public, private, and password-protected modes.

Admin Dashboard:

- Tools for administrators to manage user accounts and document access.
- Monitoring and analytics for user and document activities.

Security Module:

- Implements encryption for sensitive information.
- Conducts regular security audits and updates.

Search and Filters:

- Enables users to search for documents and apply filters.
- Enhances document discovery and accessibility.

CHAPTER 2:

SYSTEM REQUIREMENTS

2.1 Hardware & Software Requirements

- Processor: Multi-core CPU (e.g., Intel Core i5 or higher, AMD Ryzen 5 or higher) for handling concurrent requests efficiently.
- RAM: Minimum 4GB RAM for basic usage; 8GB or more recommended for better performance, especially with increased user load.
- Storage: Solid State Drive (SSD) with sufficient storage capacity for storing uploaded documents and database files.

2.1.1 Server-Side Requirements

1. Python-Django Framework

The backend of the application will be developed using the Python programming language along with the Django web framework. Django provides robust features for building web applications including ORM (Object-Relational Mapping) for database interactions, URL routing, form handling, and security features.

2. Database Management using Django ORM

Django ORM (Object-Relational Mapping) will be utilized for database management. It abstracts the database layer and allows developers to work with database models using Python code, thereby simplifying database operations.

3. Relational Database

A relational database will be used for storing user and document data. Django supports various relational database management systems (RDBMS) such as SQLite, PostgreSQL, MySQL, etc. The choice of database will depend on factors like scalability, performance, and deployment environment.

4. Security Measures

Implementing encryption for sensitive information is crucial for securing user data. This may involve using encryption algorithms to protect passwords and other sensitive data stored in the database, as well as securing communication channels using HTTPS.

2.1.2 Functional Requirements

1. User Requirements

- Registration and Login Functionality
- Password Retrieval/Reset Option

2. Document Upload:

- Users can upload documents in various formats.
- Option to set privacy mode using upload.

3. Privacy Modes:

- Public mode for open access.
- Private mode for restricted access.
- Password-protected mode for controlled access.

4. Document Management:

- Users can view, edit, and delete their uploaded documents.
- Option to organize documents into folders.

2.1.3 Client Requirements

1. Secure User Authentication:

- Develop a secure user authentication and registration system.
- Implement password retrieval and reset functionalities.

2. Flexible Document Management:

- Allow users to upload documents in various formats.
- Implement privacy controls for public, private, and password-protected modes.

3. Collaboration Features:

- Implement collaborative features such as a commenting system.
- Ensure efficient version control for tracking document changes.

4. User-Friendly Interface:

- Develop a user-friendly interface for seamless document upload and management.
- Include search and filter options for efficient document discovery.

5. Admin Tools and Monitoring:

- Provide administrators with tools to manage user accounts and document access.
- Implement monitoring and analytics for user and document activities.

6. Security Measures:

- Implement encryption for sensitive information.
- Conduct regular security audits and updates.

7. Notification System:

- Implement a notification system for automated alerts on inquiries and feedback.
- Keep users informed about their interactions with the platform.

CHAPTER: 3

Daily Task

3.1 Work Sheet Report (15 DAYS):

<u>SUGGESTED 15 DAYS WORK SHEET REPORT</u>				
Student Name:		JOSHI HARSHIT NITENDU		
Enrollment No:		201430116015		
Internship/Project Title		INDIADOCS- UPLOAD, SHARE AND SAVE DOCUMENTS		
Tools and Technologies		HTML/HTML5, CSS/CSS3, JS, PYCHARM, PYTHON-DJANGO, SQLITE, etc.		
Company/ Organization Name		INFOLABZ IT SERVICES PVT. LTD.		
Student's Activity Details:				
Week Number	Start Date to End Date	Tasks to be assigned	Tasks to be completed	Remarks
1.	17/01/2024 to 19/01/2024	<ul style="list-style-type: none"> ● Pycharm and python Installation ● Create new projects with django project installation steps. ● Create First Project, create superuser ● Learn about Django Permissions ● Learn about basics of Models like creation, register Model at Admin. ● Create model with Practice Tasks 	<ul style="list-style-type: none"> ● Perform the tasks assigned. 	

2.	22/01/2024 to 26/01/2024	<ul style="list-style-type: none"> • Learn the advanced models. • Learn foreign key concepts. • Perform Task related to Foreign Key. • Learn Image concept like inserting. • Learn which models are required to use images in models. • Perform Task related to image concept. • Practice models with different type of Tasks. 	<ul style="list-style-type: none"> • Perform the tasks assigned. 	

Table 3.1: Worksheet 1

SUGGESTED 15 DAYS WORK SHEET REPORT

Student Name:	JOSHI HARSHIT NITENDU			
Enrollment No:	201430116015			
Internship/Project Title	INDIADOCS- UPLOAD, SHARE AND SAVE DOCUMENTS			
Tools and Technologies	HTML/HTML5, CSS/CSS3, JS, PYCHARM, PYTHON-DJANGO, SQLITE, etc.			
Company/ Organization Name	INFOLABZ IT SERVICES PVT. LTD.			
Student's Activity Details:				
Week Number	Start Date to End Date	Tasks to be assigned	Tasks to be completed	Remarks
3.	29/01/2024 to 02/02/2024	<ul style="list-style-type: none"> ● Learn admin side features such as filter , display, per page records etc. ● Learn to add custom filter ,perform various tasks related to admin modification. ● Learn to display third party Themes at Admin. ● Learn the difference between MVC and MVT . ● Learn about rendering of Templates. ● Understand how models, Views and Templates work together. ● Load static files in Templates. ● Worked on models assignment named 	<ul style="list-style-type: none"> ● Perform the tasks assigned. 	<ul style="list-style-type: none"> ● All Tasks completed

		WOODSIDE.		
4.	05/02/2024 to 09/02/2024	<ul style="list-style-type: none"> • Learn to create app urls . • Learn to convert layout to Django. • Convert different layout to Django. • Learn to convert form data • Work on form to Variable Concept. • Learn how to convert the form data to the python variable. • Learn how to create context. • Learn to pass form data as a context to Templates. • Learn how to display the data on the html templates received from any view. • Assignment related to template parsing. • Received advanced Models for Live Project. 	<ul style="list-style-type: none"> • Perform the tasks assigned. 	<ul style="list-style-type: none"> • All Tasks completed

Table 3.2: Worksheet 2

SUGGESTED 15 DAYS WORK SHEET REPORT

Student Name:		JOSHI HARSHIT NITENDU		
Enrollment No:		201430116015		
Internship/Project Title		INDIADOCS- UPLOAD, SHARE AND SAVE DOCUMENTS		
Tools and Technologies		HTML/HTML5, CSS/CSS3, JS, PYCHARM, PYTHON-DJANGO, SQLITE, etc.		
Company/ Organization Name		INFOLABZ IT SERVICES PVT. LTD.		
Student’s Activity Details:				
Week Number	Start Date to End Date	Tasks to be assigned	Tasks to be completed	Remarks
5.	12/02/2024 To 16/02/2024	<ul style="list-style-type: none">● Worked On the form to variable concept.● Started CRUD operation with Inserting the record via Frontend with Files.● Completed assignments based on form to variable concepts.● Understand how to fetch data and pass fetched data from database to html Template and display it.● Understand the dynamic routing concept.● Learn How to fetch data from the id of the product using objects.get().	<ul style="list-style-type: none">● Perform the tasks assigned.	<ul style="list-style-type: none">●All Tasks completed

6.	19/02/2024 To 23/02/2024	<ul style="list-style-type: none"> • Learn how to update the project details. • Learn how to delete the product details. • Work on user registration and login authorization. • Understand login logic and login validation. • Work on weekly Assignment. • Complete the Models of Live project by weekend. 	• Perform the tasks assigned.	• All Tasks completed
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Table 3.3: Worksheet 3

SUGGESTED 15 DAYS WORK SHEET REPORT

Student Name:	JOSHI HARSHIT NITENDU			
Enrollment No:	201430116015			
Internship/Project Title	INDIADOCS- UPLOAD, SHARE AND SAVE DOCUMENTS			
Tools and Technologies	HTML/HTML5, CSS/CSS3, JS, PYCHARM, PYTHON-DJANGO, SQLITE, etc.			
Company/ Organization Name	INFOLABZ IT SERVICES PVT. LTD.			
Student's Activity Details:				
Week Number	Start Date to End Date	Tasks to be assigned	Tasks to be completed	Remarks
7.	26/02/2024 To 01/03/2024	<ul style="list-style-type: none"> • Lean how to cart model is created. • Learn how to insert and fetch data and display cart data. • Understand structure of database and started creating models for client project. 	<ul style="list-style-type: none"> • Perform the tasks assigned. 	<ul style="list-style-type: none"> • All Tasks completed

8.	04/03/2024 To 08/03/2024	<ul style="list-style-type: none"> • Understand e-commerce place order, online/offline payment. • Learn wishlist topic. • Understand message prompting in Django. • Completed assignments based on the Topic. 	• Perform the tasks assigned.	• All Tasks completed
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Table 3.4: Worksheet 4

SUGGESTED 15 DAYS WORK SHEET REPORT

Student Name:		JOSHI HARSHIT NITENDU		
Enrollment No:		201430116015		
Internship/Project Title		INDIADOCS- UPLOAD, SHARE AND SAVE DOCUMENTS		
Tools and Technologies		HTML/HTML5, CSS/CSS3, JS, PYCHARM, PYTHON-DJANGO, SQLITE, etc.		
Company/ Organization Name		INFOLABZ IT SERVICES PVT. LTD.		
Student’s Activity Details:				
Week Number	Start Date to End Date	Tasks to be assigned	Tasks to be completed	Remarks
9.	11/03/2024 To 15/03/2024	<ul style="list-style-type: none">● Learn how to create a base file and understand to add common header and footer using Base files.● Learn user panel of the project Flow.● Worked on project Templates.● Started Frontend Development.● Convert project templates in Django.● Implemented Login and Signup logic into our Project.	<ul style="list-style-type: none">● Perform the tasks assigned.	<ul style="list-style-type: none">●All Tasks completed

10.	18/03/2024 To 22/03/2024	<ul style="list-style-type: none"> • Started Development of UI for frontend. • Learn search functionality and how can we apply search filters. • Worked on Dashboard layout and implemented the Dynamic Functionalities. • Created needed pages for Project . 	• Perform the tasks assigned.	• All Tasks completed
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Table 3.5: Worksheet 5

SUGGESTED 15 DAYS WORK SHEET REPORT

Student Name:		JOSHI HARSHIT NITENDU		
Enrollment No:		201430116015		
Internship/Project Title		INDIADOCS- UPLOAD, SHARE AND SAVE DOCUMENTS		
Tools and Technologies		HTML/HTML5, CSS/CSS3, JS, PYCHARM, PYTHON-DJANGO, SQLITE, etc.		
Company/ Organization Name		INFOLABZ IT SERVICES PVT. LTD.		
Student’s Activity Details:				
Week Number	Start Date to End Date	Tasks to be assigned	Tasks to be completed	Remarks
11.	25/03/2024 To 29/03/2024	<ul style="list-style-type: none">● Implemented and solved errors in implementing all three modes of Uploading Documents and display it.● Password Encryption using SHA-256 bit Algorithm in Django.● Implemented Share Files section and revoke Documents.● Implemented Recycle bin and permanently delete documents.	<ul style="list-style-type: none">● Perform the tasks assigned.	<ul style="list-style-type: none">●All Tasks completed

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Table 3.6: Worksheet 6

CHAPTER 4

FRONT END OF SYSTEM

4.1 About Front End

- The INDIADOCS frontend prioritizes simplicity and ease of use, ensuring users can seamlessly navigate the platform. Clear layouts, intuitive menus, and visually appealing design elements contribute to a positive user experience.
- INDIADOCS Frontend presents documents in an organized manner, allowing users to browse and access their documents efficiently. Each document entry includes relevant details such as title, owner, access mode, and upload date.
- INDIADOCS offers document's detailed information for each document. Users can view the document content and access metadata such as file type, size, and permissions, enhancing usability and decision-making.

4.1.1 About HTML

- Structure: HTML is used to define the structure of the web pages in the project, including headings, paragraphs, forms, and other elements. It provides the backbone upon which the content of the documents and user interface elements are presented.
- Semantics: HTML allows for the semantic markup of content, making it easier for search engines to understand the purpose and meaning of different sections within the documents and application interface.

4.1.2 About CSS

- CSS is essential for styling the visual elements of the INDIADOCS frontend, including fonts, colors, layouts, and spacing. Consistent and visually appealing design enhances user experience and makes the platform more engaging.
- CSS enables the implementation of responsive design principles, ensuring that the INDIADOCS platform is accessible and functional across various devices and screen sizes. Media queries and flexible layouts adjust the presentation of content dynamically, optimizing user experience.

- CSS is instrumental in defining the layout and structure of web pages within the INDIADOCS platform. CSS frameworks or grid systems provide tools for creating responsive and visually appealing layouts, improving the organization and readability of content.

4.1.3 About JavaScript

- Utilizing JS libraries and frameworks like jQuery, DataTables, and Bootstrap can streamline development and enhance functionality. For instance, DataTables library can be used to organize document data into tables with features like sorting, pagination, and searching, providing users with a structured and efficient way to browse and manage documents.
- JavaScript is employed for client-side validation of user inputs when interacting with forms. This ensures that documents uploaded or modified by users meet specified criteria before submission, such as file type validation, size limits, and required fields, thereby maintaining data integrity and usability.
- JS enables the creation of dynamic user interface elements, such as modal dialogs, tooltips, and dropdown menus, enhancing the overall user experience and interaction with the application. For example, modal dialogs can be used for confirming document.

CHAPTER 5

BACK END OF SYSTEM

5.1 About Python:

- Python is renowned for its clean and readable syntax, which emphasizes readability and reduces the cost of program maintenance. Its syntax resembles pseudo-code, making it easier for programmers to express concepts without getting bogged down in unnecessary details. This readability fosters collaboration and makes Python an excellent choice for both beginners and seasoned developers.
- Python is a versatile language that can be used for a wide range of applications, including web development, data analysis, artificial intelligence, scientific computing, automation, and more. Its extensive standard library and numerous third-party packages make it easy to extend Python's capabilities to suit various needs.
- Python boasts a vibrant and active community of developers, which contributes to its robust ecosystem. The Python Package Index (PyPI) hosts over 300,000 packages, providing solutions for almost any programming task imaginable. This rich ecosystem accelerates development by allowing programmers to leverage existing libraries and tools, reducing the need to reinvent the wheel.

5.2 Why Use Python-Django

- **Rapid Development:** Django follows the "batteries-included" philosophy, providing a set of pre-built components and libraries that speed up development. This allows developers to focus more on building features rather than reinventing the wheel.
- **High -Level Abstractions:** Django abstracts common web development patterns, such as URL routing, database interactions, and form handling, simplifying complex tasks and reducing boilerplate code.
- **Security:** It also encourages secure coding practices, such as secure password hashing and user authentication.
- **Documentation and learning Resources:** Django has comprehensive documentation and a wealth of learning resources, including tutorials, guides, and books. This makes it easy for developers to get started with Django and continue learning as they work on projects.
- **ORM(Object-relational Mapping):** Django's ORM simplifies database interactions by allowing developers to work with database models using Python code. This eliminates the need for writing raw SQL queries and provides database independence.
- **Admin Interface:** Django includes a built-in admin interface that automatically generates a user-friendly interface for managing site content. This is particularly useful for content management and administrative tasks.

5.3 About Back End

5.3.1 About SQLite

- SQLite is an in-process library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is thus free for use for any purpose, commercial or private. SQLite is the most widely deployed database in the world with more applications than we can count, including several high-profile projects.
- SQLite is an embedded SQL database engine. Unlike most other SQL databases, SQLite does not have a separate server process. SQLite reads and writes directly to ordinary disk files. A complete SQL database with multiple tables, indices, triggers, and views, is contained in a single disk file. The database file format is cross-platform - you can freely copy a database between 32-bit and 64-bit systems or between big-endian and little-endian architectures. These features make SQLite a popular choice as an Application File Format. SQLite database files are a recommended storage format by the US Library of Congress. Think of SQLite not as a replacement for Oracle but as a replacement for fopen().
- The SQLite code base is supported by an international team of developers who work on SQLite full-time. The developers continue to expand the capabilities of SQLite and enhance its reliability and performance while maintaining backwards compatibility with the published interface spec, SQL syntax, and database file format. The source code is absolutely free to anybody who wants it, but professional support is also available.

5.3.2 How SQLite Works

- SQL is a very high-level language. A few lines of SQL can replace hundreds or thousands of lines of procedural code. SQL thus reduces the amount of work needed to develop and maintain the application, and thereby helps to reduce the number of bugs in the application.

- SQL and SQLite are transactional. The use of a transactional storage system makes it much easier to reason about the behavior of the application, and to write applications that are robust, even in the face of software bugs, hardware faults, or power losses.
- SQLite is often faster than direct low-level I/O. This is counterintuitive. One would expect that a high-level interface such as SQLite would impose a run-time penalty. And, theoretically, that is correct. But in practice, SQL-based systems such as SQLite do so many behind-the-scenes optimizations that an application developer would never have time to create and maintain, that the SQL-based systems end up providing a net performance gain.
- SQLite is a serverless software library, whereas the other systems are client-server based. With MySQL, PostgreSQL, SQL-Server, and others, the application sends a message containing some SQL over to a separate server thread or process.

All programming languages are processed in two steps:

1. Translate the program source text into an executable format.
- Run the executable generated in the previous step in order to carry out the desired action.

5.3.3 MySQL Features

- **SQLite is totally free:** SQLite is open-source. So, no license is required to work with it.
- **SQLite is serverless:** SQLite doesn't require a different server process or system to operate.
- **SQLite is very flexible:** It facilitates you to work on multiple databases on the same session on the same time.
- **Configuration Not Required:** SQLite doesn't require configuration. No setup or administration required.

- **SQLite is a cross-platform DBMS:** You don't need a large range of different platforms like Windows, Mac OS, Linux, and Unix. It can also be used on a lot of embedded operating systems like Symbian, and Windows CE.
- **Storing data is easy:** SQLite provides an efficient way to store data.
- **Variable length of columns:** The length of the columns is variable and is not fixed. It facilitates you to allocate only the space a field needs. For example, if you have a varchar(200) column, and you put a 10 characters' length value on it, then SQLite will allocate only 10 characters' space for that value not the whole 200 space.
- **Provide large number of API's:** SQLite provides API for a large range of programming languages. **For example:** .Net languages (Visual Basic, C#), PHP, Java, Objective C, Python and a lot of other programming language.
- **SQLite** is written in **ANSI-C** and provides simple and easy-to-use API.
- **SQLite** is available on UNIX (Linux, Mac OS-X, Android, iOS) and Windows (Win32, WinCE, WinRT).

5.4 Why Use SQLite

- SQLite is an open-source software. The software does not require any license after installation.
- SQLite is serverless as it doesn't need a different server process or system to operate.
- SQLite facilitates you to work on multiple databases on the same session simultaneously, thus making it flexible.
- SQLite is a cross-platform DBMS that can run on all platforms, including macOS, Windows, etc.
- SQLite doesn't require any configuration. It needs no setup or administration.

CHAPTER: 6

SYSTEM DESIGN

6.1 Use Case Diagram

6.1.1 Use case Diagram for Admin :-

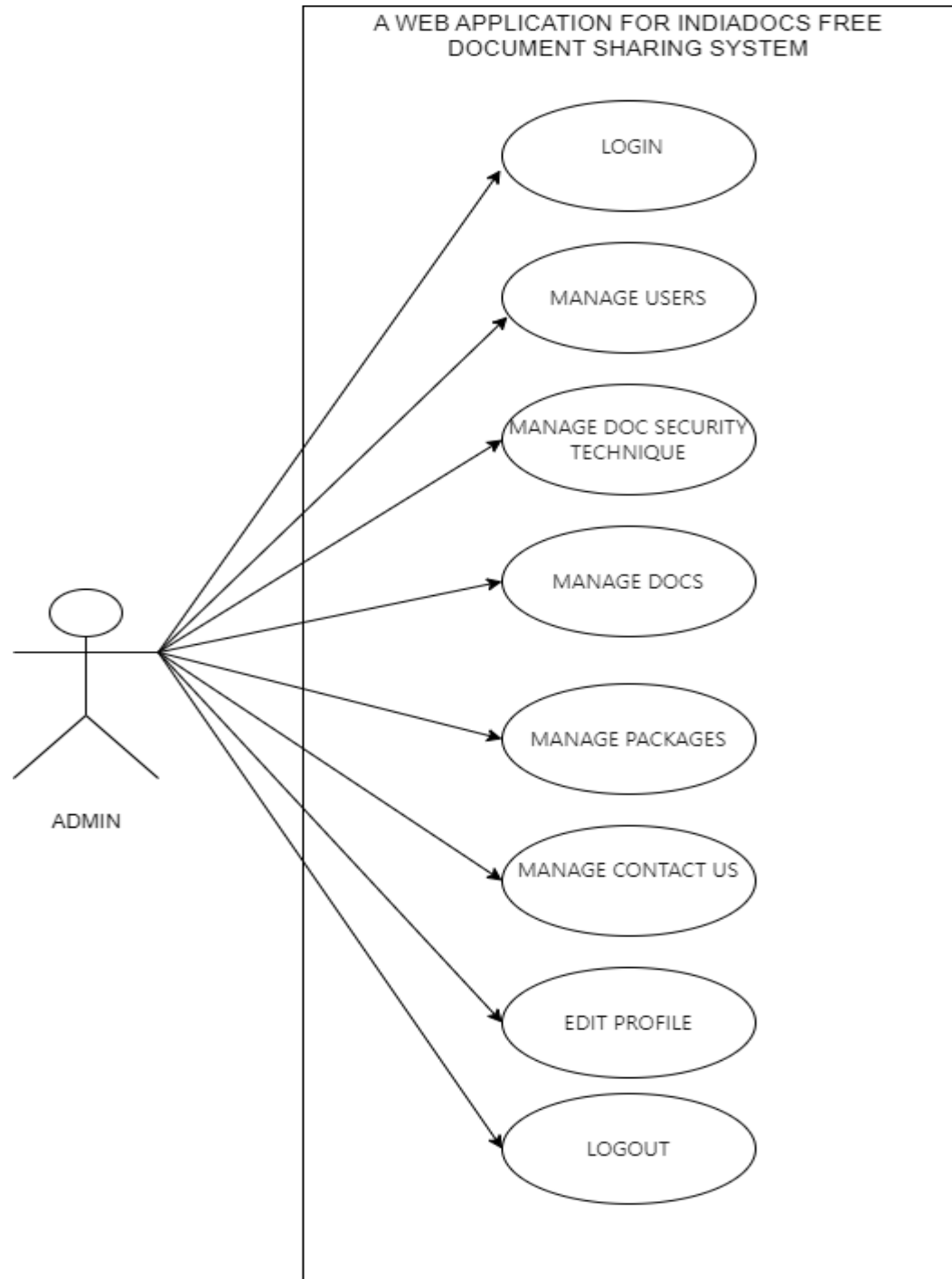


Figure 6.1.1 Use Case diagram for Admin

6.1.2 Use case Diagram for User:-

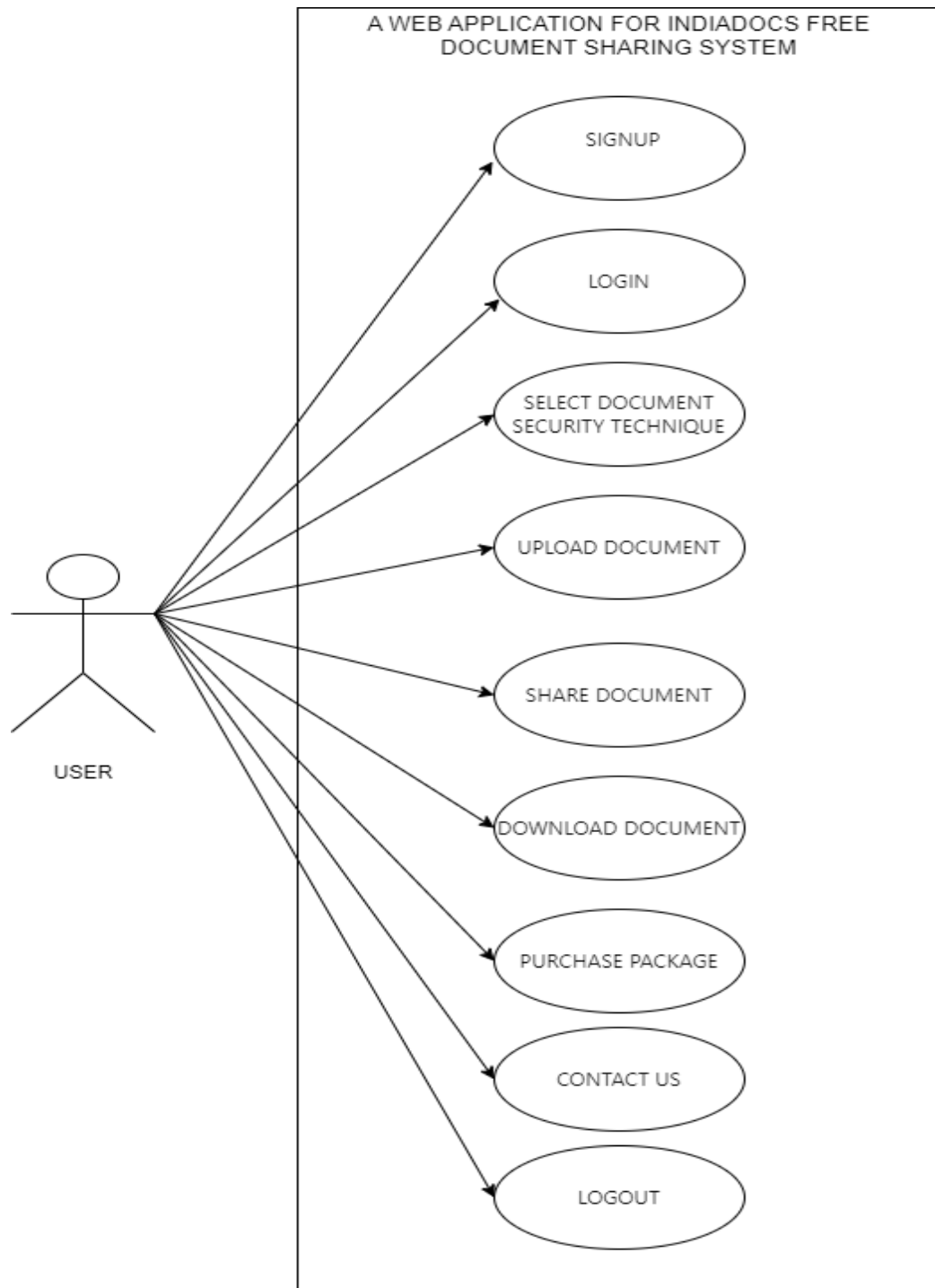


Figure 6.1.2 Use Case diagram

6.2 Class Diagram

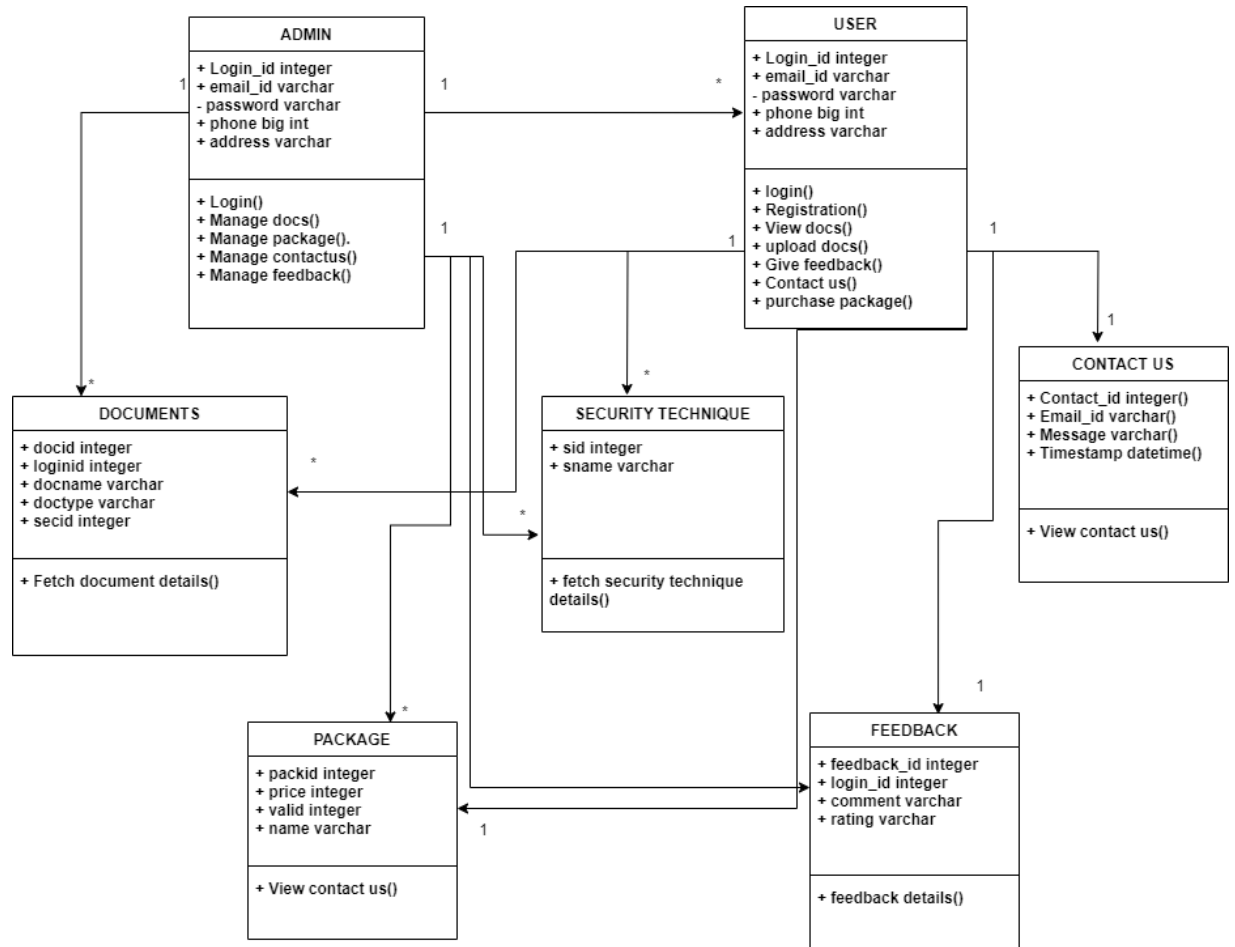


Figure 6.2 class diagram

CHAPTER: 7

DATA DICTIONARY

7.1 Introduction

- Data Dictionary of INDIADOCS serves as a comprehensive reference guide that provides information of the data elements, structures, and relationships within the INDIADOCS database. It acts as a centralized repository of metadata, offering insights into the organization, semantics, and usage of data within the document sharing and management platform.

7.2 List of Tables

7.2.1: Login Table

Field Name	Data type (size)	Constraint	Description
First Name	CharField (60)	not null	First Name of User
Last Name	CharField (60)	not null	Last Name of User
Email	CharField (60)	not null	Email of user
Phone	BIgint(10)	not null	Phone number of user
contact_number	CharField (255)	not null	phone number of users i.e. +91 9876543210
Password	int(2)	not null	password of user
Timestamp	Date Time	Auto	Date and Time

Table 7.2.1: Login Table

7.2.2: Security Technique Table

Field Name	Data type (size)	Constraint	Description
Security Name	CharField (60)	Not Null	Modes of Document Security

Table 7.2.2: Security Table

7.2.3: Document Table

Field Name	Data type (size)	Constraint	Description
------------	---------------------	------------	-------------

USERID	N.A.	Not Null	Foreign Key
DOCUMENT_SECURITY_TECHNIQUE	N.A.	Not Null	Foreign Key
DOCUMENT_TYPE	CharField (60)	Not Null	Type Of File
DOCUMENT_TITLE	CharField (60)	Not Null	Title of File
DOCUMENT_DESCRIPTION	TextField	Not Null	File Description
DOCUMENT_STATUS	Int()	Default=0	Status of File
DOCUMENT_SIZE	Float()	Not Null	File size
DOCUMENT	CharField ()	Not Null	File
DOCUMENT_PUBLISH_DATE_TIME	DateTime	Auto	Date And Time
DOCUMENT_PASSWORD	CharField (60)	Blank=True	File Password
DOCUMENT_BIN	Int()	Default=0	Recycle Bin
DOCUMENT_SENT	Int()	Default=0	File Sent Status

Table 7.2.3: Document Table

7.2.4 Document Privilege

Field Name	Data type (size)	Constraint	Description
DOCID	N.A.	FOREIGN_KEY - FROM DOCUMENT	Fetch Doc Id
USERID	N.A.	FOREIGN_KEY - FROM LOGIN_TABLE	Fetch user
PRIVILEGE_STATUS	CharField (60)	Not Null	Check status
SENT_TO	MANYTOMANYFIELD	Not Null	Sent to whom

Table 7.2.4: Document Privilege

7.2.5 Package Table

Field Name	Data type (size)	Constraint	Description
PACKAGE_TYPE	CharField (60)	Not Null	Package Type
PACKAGE_PUBLISH_DATE_TIME	DateTime	Auto	Date And Time
PACKAGE_STATUS	CharField (60)	Not Null	Status of Package
PACKAGE_PRICE	float	Not Null	Price of Package
PACKAGE_DURATION	int	Not Null	Package Duration
PACKAGE_DESCRIPTION	TextField	Not Null	Package Description

Table 7.2.5: Package Table

7.2.6 User Package Details

Field Name	Data type (size)	Constraint	Description
USERID	N.A.	FOREIGN_KEY - FROM LOGIN_TABLE	Fetch User Details
PREMIUM_PACKAGE_ID	N.A.	FOREIGN_KEY - FROM PACKAGE_TABLE	Fetch Package
PACKAGE_STATUS	CharField (60)	Not Null	Status of Package
PACKAGE_PURCHASE_DATE	Date Time	Not Null	Purchase Date
PACKAGE_EXPIRE_DATE	CharField (60)	Not Null	Expiry Date

Table 7.2.6: user package details

7.2.7 USER CARD DETAILS

Field Name	Data type (size)	Constraint	Description
USERID	N.A.	FOREIGN_KEY - FROM LOGIN_TABLE	Fetch User Details
CARD_NO	int	Not null	16 digit Number
CVV	Int	Not Null	CVV
EXPIRY_DATE	Int	Not Null	Expiry Date

Table 7.2.7: User card details

7.2.8 Inquiry Table

Field Name	Data type (size)	Constraint	Description
USERID	N.A.	FOREIGN_KEY - FROM LOGIN_TABLE	Fetch User Details
NAME	CharField (60)	Not Null	Name of User
EMAIL	CharField (60)	Not Null	Email of User
SUBJECT	CharField (60)	Not Null	Subject
MESSAGE	CharField (60)	Not Null	Message by User
TIMESTAMP	Date Time	Auto	Date and Time
STATUS	int	Not Null	Inquiry Status

Table 7.2.8: Inquiry Table

7.2.9 Contact

Field Name	Data type (size)	Constraint	Description
NAME	CharField (60)	Not Null	Name of User
EMAIL	CharField (60)	Not Null	Email Of User
PHONE	Big int	Not Null	Number OF user
MESSAGE	CharField(60)	Not Null	Issue details by user
TIMESTAMP	Date Time	Auto	Date and time
STATUS	int	Not Null	Issue Status

Table 7.2.9: User contact details

7.2.10 Payment

Field Name	Data type (size)	Constraint	Description
USERID	N.A.	FOREIGN_KEY - FROM LOGIN_TABLE	Fetch User Details
PREMIUM_PACKAGE_ID	N.A.	FOREIGN_KEY - FROM PACKAGE	Fetch Package
PAYMNET_STATUS	int	Not Null	Issue Status
PACKAGE_PURCHASE_DATE	Date Time	Not Null	Purchase Date
TRANSACTIONID	CharField(100)	Not Null	Transaction id of payment

Table 7.2.10: Payment Details

CHAPTER 8

TESTING

8.1 Testing Plan

- **Scope:** Test functionalities including document uploading, saving, sharing (public, private, protected), user registration, authentication, and access control.
- **Testing Objectives :** Ensure functionality, security, usability, and performance of the INDIADOCS platform.
- **Testing Environment:** Utilize Python-Django development environment with relevant databases, browsers, and devices for testing.
- **Testing Phases:** Conduct unit testing, integration testing, system testing, and acceptance testing.
- **Testing Resources:** Allocate testers, testing tools, and test data required for comprehensive testing.
- **Testing Schedule:** Establish timelines for each testing phase, aligning with the development milestones.
- **Testing Deliverables:** Generate test plans, test cases, test reports, and defect logs for documentation and tracking.
- **Risk Management :** Identify risks such as security vulnerabilities, usability issues, and performance bottlenecks, and implement mitigation strategies.

8.2 Testing Strategies

- **Functional Testing :** Validate functionalities including document uploading, saving, and sharing across all modes (public, private, protected).
- **Usability Testing:** Evaluate the user interface design, navigation, and overall user experience to ensure it is intuitive and user-friendly.
- **Performance Testing:** Assess platform performance under various load conditions to ensure scalability and responsiveness.
- **Compatibility Testing:** Verify compatibility across different browsers, devices, and operating systems to ensure consistent user experience.
- **Security Testing:** Testing Security Feature of Password Encryption.

8.3 Testing Method

- **Manual Testing:** Conduct manual testing to validate functionalities, usability, and security aspects of the platform.
- **Exploratory Testing :** Dynamically explore the platform to uncover unexpected behaviors, usability issues, and edge cases.
- **Black Box Testing :** Validate functionalities without knowledge of the internal code or implementation details.
- **White Box Testing:** Review internal code, conduct code inspections, and static analysis to identify defects and vulnerabilities.

8.4 Test Case

Test Case Title: Share Document with Registered User

Test Case Description: Verify that a document can be shared with a particular registered user in the protected mode.

Preconditions:

- User is logged in to the INDIADOCS platform.
- Document to be shared is uploaded and saved in the protected mode.

Test Steps:

- Navigate to the document to be shared.
- Click on the "Share" button.
- Enter the email id of the Registered User.
- Click on the "Share" button.

Expected Results:

- The document is successfully shared with the specified registered user in the protected mode.
- The shared document is accessible to the registered user only and is not visible to other users.

Pass Criteria:

- The document is successfully shared without errors.
- Only the specified registered user can access the shared document.

Fail Criteria:

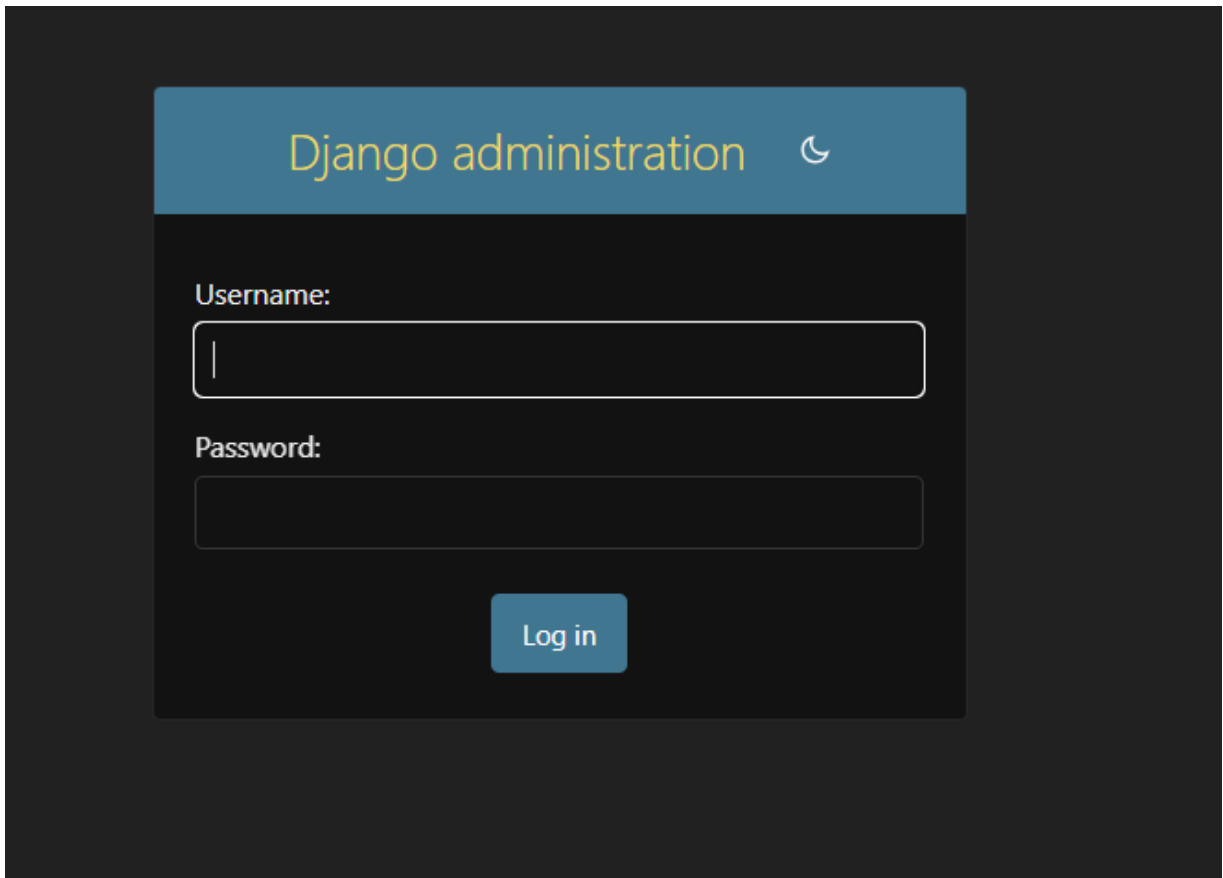
- The document fails to share or displays errors during the sharing process.
- Other users can access the shared document despite being in the protected mode.

CHAPTER: 9

SNAPSHOT OF WEBSITE

9.1 Admin Site:

1. Login:

A screenshot of the Django administration login interface. The page has a dark grey background. At the top, there is a teal header bar with the text "Django administration" in a yellow font, followed by a small white circular icon containing a crescent moon. Below the header, the login form is centered. It consists of two input fields: the first is labeled "Username:" and the second is labeled "Password:". Both labels are in a light grey font. The input fields are white with rounded corners and a thin grey border. Below the password field, there is a teal button with the text "Log in" in white. The entire login form is enclosed in a dark grey rectangular box.

2. Dashboard:

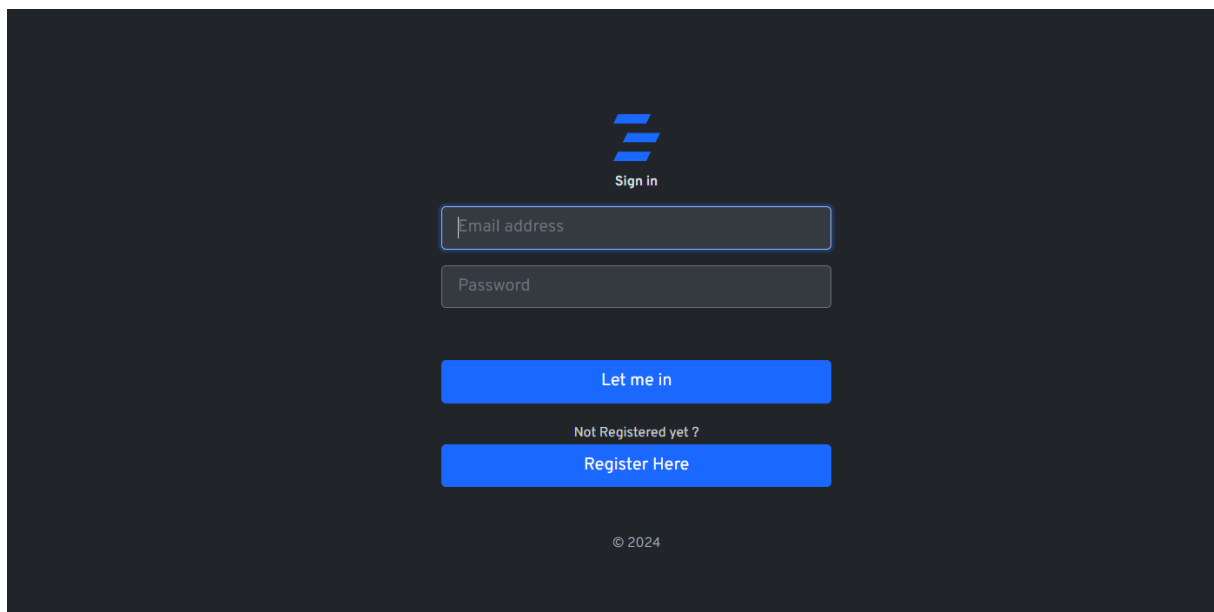
MYAPP		
Contacts	+ Add	Change
Documentprivileges	+ Add	Change
Documents	+ Add	Change
Inquirys	+ Add	Change
Logins	+ Add	Change
Packages	+ Add	Change
Payments	+ Add	Change
Securitytechniques	+ Add	Change
Usercarddetailss	+ Add	Change
Userpackagedetailss	+ Add	Change

3. Users list:

Action: <input type="text"/> Go 0 of 2 selected						
<input type="checkbox"/>	FNAME	LNAME	EMAIL	NUMBER	PASSWORD	TIMESTAMP
<input type="checkbox"/>	Meetraj	Vaghela	meetraj@gmail.com	9079079079	pbkdf2_sha256\$260000\$KjHuevdnGeAoSylcQy2E\$La1PkkJCaInujoUycnjewsQ+0cN3k8S/E3k+8EwtpU=	March 30, 2024, 11:18 p.m.
<input type="checkbox"/>	Harshit	Joshi	harshit@gmail.com	9898989898	pbkdf2_sha256\$720000\$SkiAHuevdnGeAoSylcQy2E\$La1PkkJCaInujoUycnjewsQ+0cN3k8S/E3k+8EwtpU=	March 28, 2024, 2 a.m.
2 logins						

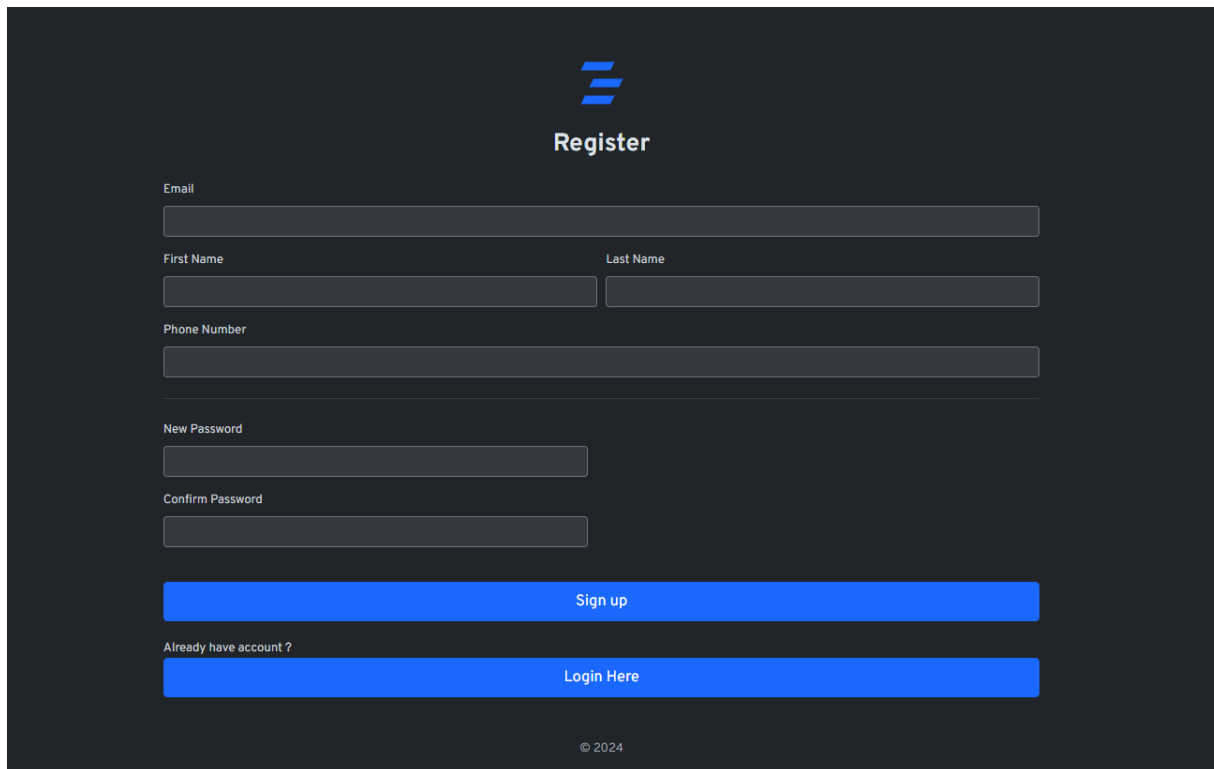
9.2 Users Site:

1. Login:



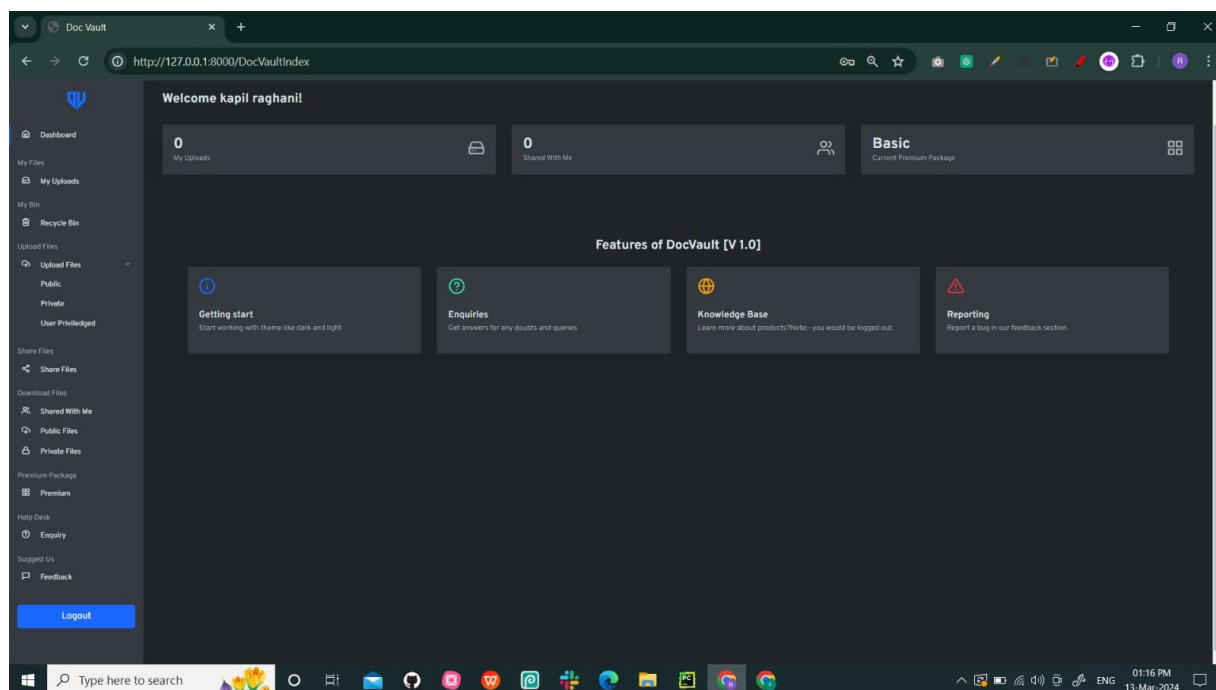
A dark-themed login page with a blue logo at the top center. Below the logo is the text "Sign in". There are two input fields: "Email address" and "Password". Below these fields are two blue buttons: "Let me in" and "Register Here". The "Register Here" button is preceded by the text "Not Registered yet?". At the bottom center, there is a copyright notice "© 2024".

2. Registration

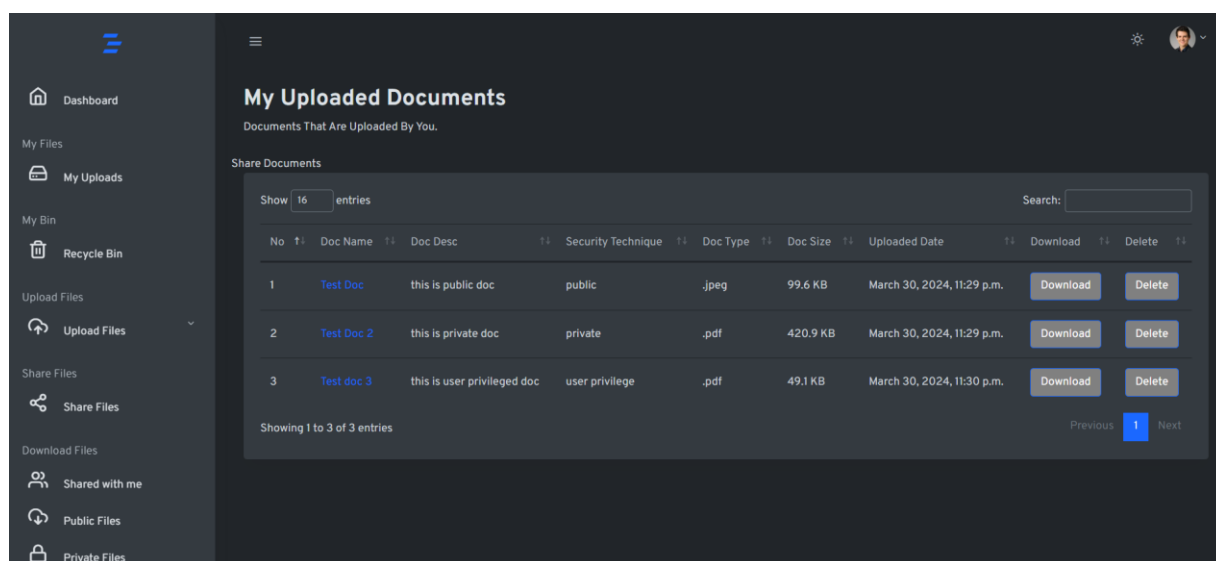


A dark-themed registration page with a blue logo at the top center. Below the logo is the text "Register". There are several input fields: "Email", "First Name", "Last Name", "Phone Number", "New Password", and "Confirm Password". Below these fields are two blue buttons: "Sign up" and "Login Here". The "Login Here" button is preceded by the text "Already have account?". At the bottom center, there is a copyright notice "© 2024".

3. Dashboard



4. My_uploads



5. Share File

Share Documents

Share Your Documents Safely In one Click.

Share Documents

Show entries Search:

No	Doc Name	Doc Desc	Security Technique	Doc Type	Doc Size	Uploaded Date	Share
1	Test doc 3	this is user privileged doc	user privilege	.pdf	49.1 KB	March 30, 2024, 11:30 p.m.	<button>Share</button>

Showing 1 to 1 of 1 entries Previous **1** Next

Sent Documents

No	Doc Name	Doc Desc	Security Technique	Doc Type	Doc Size	Uploaded Date	Forward	Unsend
No Data has been shared Yet.								

6. Upload File Publicly

- Dashboard
- My Files
 - My Uploads
- My Bin
 - Recycle Bin
- Upload Files
 - Upload Files
- Share Files
 - Share Files
- Download Files
 - Shared with me
 - Public Files
 - Private Files

File Upload

Upload Your File Publicly.

File Title

File Description

File

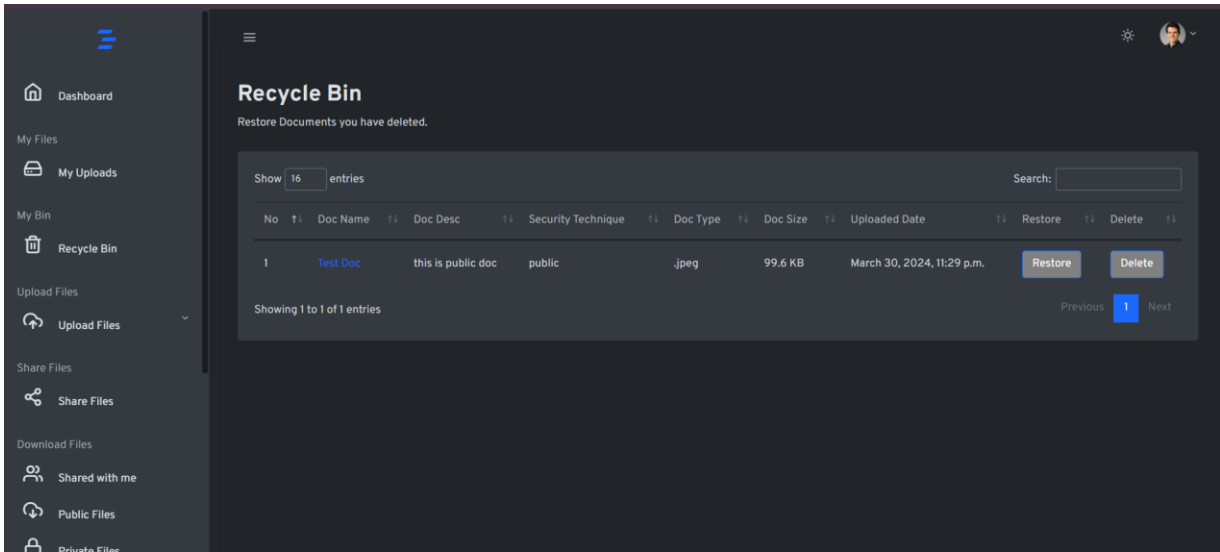
7. Upload Private File

The screenshot shows a web application interface with a dark theme. On the left is a sidebar menu with icons and labels for: Dashboard, My Files, My Uploads, My Bin, Recycle Bin, Upload Files (with a dropdown arrow), Share Files, and Download Files. The main content area is titled "File Upload" with the subtitle "Upload Your File Privately". It contains a form with the following fields: "File Title" (text input), "Password" (password input), "Confirm Password" (password input), "File Description" (text area), and "File" (a "Choose file" button next to a "Browse" button). A blue "Submit form" button is at the bottom of the form.

8. Upload file User Privileged

This screenshot shows the same "File Upload" form, but the subtitle is "Upload Your File privilege". The form fields are: "File Title" (with placeholder text "Enter File Title"), "File Description" (with placeholder text "Enter File Description"), and "File" (with "Choose file" and "Browse" buttons). A large blue "Upload" button is positioned below the "File" section.

9. Recycle Bin



CHAPTER: 10

Advantages

10.1 Advantages:

- **User-Friendly Interface:** The platform provides a user-friendly interface for document uploading, sharing, and management, making it easy for users to navigate and utilize its features effectively.
- **Flexible Sharing Options:** INDIADOCS offers three modes of document sharing - public, private, and protected. This flexibility allows users to control access to their documents based on their preferences and requirements.
- **Secure Document Management:** With features like user authentication, access controls, and encryption, INDIADOCS ensures the security and confidentiality of documents stored and shared on the platform, protecting sensitive information from unauthorized access.
- **Collaboration :** The platform facilitates collaboration and communication among users by enabling document sharing.
- **Scalability:** The architecture of INDIADOCS is designed to be scalable, allowing it to accommodate a growing number of users and documents without compromising performance or user experience.
- **Accessibility:** The platform is accessible from various devices and web browsers, enabling users to access and manage documents anytime, anywhere, as long as they have an internet connection.
- **Cost Effective Solution:** Being a free and open-source project developed using Python-Django, INDIADOCS offers a cost-effective solution for document management and collaboration, eliminating the need for expensive proprietary software licenses.
- **Encryption:** User's crucial Login credential is stored in Hash Format for Security Purpose.

10.2 Limitations:

- **Dependency on Internet Connectivity:** INDIADOCS relies on internet connectivity for users to access the platform and upload/download documents. Users in areas with poor or unreliable internet connections may experience difficulties in accessing or using the platform effectively.
- **Compatibility Issues:** INDIADOCS may encounter compatibility issues with certain web browsers, operating systems, or devices, affecting the user experience and functionality. Regular testing and updates are required to ensure compatibility across different platforms and environments.
- **Limited Collaboration Features:** While INDIADOCS facilitates document sharing and collaboration, it may lack advanced collaboration features found in dedicated document management systems or office productivity suites. Users may require additional tools or integrations for features such as real-time document editing, commenting, or workflow automation.
- **Regulatory Compliance:** Depending on the nature of documents stored and shared on INDIADOCS, users may need to ensure compliance with regulatory requirements such as data privacy laws (e.g., GDPR, HIPAA) or industry-specific regulations. Failure to comply with these regulations could result in legal consequences or penalties.
- **Limited Offline Access:** INDIADOCS primarily operates as an online platform, requiring internet connectivity for access. Offline access to documents may be limited or unavailable, impacting users who require access to documents in offline environments.

CHAPTER: 11

Conclusion and Future Enhancement

Conclusion:

The INDIADOCS project, developed using Python-Django, emerges as a comprehensive and user-friendly document sharing and management platform. Offering three distinct modes of document sharing - public, private, and protected - it caters to diverse user preferences while ensuring security and confidentiality. With intuitive features for uploading, saving, and sharing documents, users can seamlessly collaborate and communicate within the platform. While the platform presents numerous advantages such as scalability, accessibility, and cost-effectiveness, potential areas for improvement include refining the user interface for enhanced usability and addressing security vulnerabilities for robust data protection. Overall, INDIADOCS demonstrates significant potential to streamline document workflows, foster collaboration, and promote efficient information sharing across various contexts, with ongoing development and community support driving its evolution to meet the evolving needs of users.

Future Enhancement:

Future enhancements for the INDIADOCS project could include the integration of advanced collaboration features such as real-time document editing and commenting capabilities, facilitating seamless community among multiple users on shared documents. Additionally, the implementation of artificial intelligence (AI) and machine learning (ML) algorithms could enhance document categorization, search, and recommendation functionalities, providing users with more personalized and efficient document management experiences. Enhanced mobile responsiveness and native mobile applications could extend the platform's accessibility, allowing users to access and manage documents on the go. Moreover, incorporating blockchain technology for document authentication and digital signatures could further enhance security and trustworthiness, ensuring the integrity and authenticity of shared documents. Continuous optimization of performance, scalability, and user experience would remain essential priorities for future development, ensuring that INDIADOCS remains a leading solution for document management and collaboration in evolving digital environments.