# **OUTPUT SCREEN OF PROJECT**

Project Report
On
Online Notes Sharing System

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## **ACKNOWLEDGEMENT**

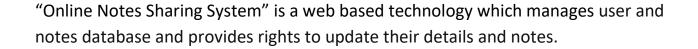
I am are over helmed in all humbleness and gratefulness to acknowledge my depth to all those who have helped me to put these ideas, well above the level of simplicity and into something concrete.

I would like to express my special thanks of gratitude to my esteemed guide, Mr. XYZ who gave me the golden opportunity to do this wonderful project which also helped me in doing a lot of Research and I came to know about so many new things. I am really thankful to them. Any attempt at any level can't be satisfactorily completed without the support and guidance of MY parents and friends.

I would like to thank my parents who helped me a lot in gathering different information, collecting data and guiding me from time to time in making this project, despite of their busy schedules, they gave me different ideas in making this project unique.

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## **ABSTRACT**



This project manage user information and notes which is provided by him/her. User's also have rights to update their details and notes. In this web application user must be registered. The aim of this web application is to manage user and notes database.

## **INTRODUCTION**

"Online Notes Sharing System" is a web based technology which manages user and notes database and provides rights to update their details and notes. In this web application user must be registered. This web application provides a way to effectively control record & track the user details who himself/herself registered with us.

Online Notes Sharing System provides functionality to manage personal profiles and manages notes which are provided by them. Personal profiles contain information such as profile contact number, email, first and last name, etc. and notes details contains notes title, notes subject, notes descriptions etc. In order to access personal profile for reading and modification password is used for authentication. User information contains username, password and session for authentication.

In this project we use Python, Django Framework and MySQL database and it has one module i.e. **User** 

#### User:

- **1. Dashboard:** This is welcome page of registered users, user can briefly view total number of notes uploaded and files uploaded.
- 2. **Notes:** In this section, user can add, update and delete the notes which they want to share.
- 3. **My Accounts:** This section have following:
  - **Profile:** User can update his/her profile.
  - Change Password: User can update/his/her account password.
  - Logout: User can logout from their panel.
- **4. Search:** User can search their notes by the titles and subject.

## **Advantages:**

- It helps to handle and manage user data and their notes.
- Reduce time consumption.
- Reduce error scope.
- All system managements are automated.
- Centralized database management.
- Easy operations for operator of the system.
- No paper work requirement.

## **Disadvantages:**

• The system can only handle single user.

## **FEASIBILITY STUDY**

Whenever we design a new system, normally the management will ask for a feasibility report of the new system. The management wants to know the technicalities and cost involved in creation of new system.

- Technical feasibility
- Economic feasibility
- Physical feasibility

### Technical feasibility:

Technical feasibility involves study to establish the technical capability of the system being created to accomplish all requirements to the user. The system should be capable of handling the proposed volume of data and provide users and operating environment to increase their efficiency.

For example, system should be capable of handling the proposed volume of data and provide users.

## Economic feasibility:

Economic feasibility involves study to establish the cost benefit analysis. Money spent on the system must be recorded in the form of benefit from the system. The benefits are of two types:

## Tangible benefits:

- Saving man labor to do tedious tasks saves time.

## Intangible benefits:

- Improves the quality of organization.

### Physical feasibility:

It involves study to establish the time responses of the new system being created. For e.g., if the new system takes more than one day to prepare crucial finance statement for the management, wherever it was required in an hour, the system fails to provide the same.

It should be clearly establish that the new system requirements in the form of time responses would be completely met with. It may call for increase in cost. If the required cost is sacrificed then the purpose of the new system may not be achieved even if it was found to be technically feasible.

## **SCOPE OF THE PROJECT**

The proposed system provides a simple user and notes management pages that lets you view users and notes details, create new user accounts, edit existing ones and manage notes which is share by them. Also provides tools to disabled or delete users, manage permission and issue password reset.

The system works and fulfills all the functionalities as per the proposed system.

It will provide reduced response time against the queries made by different users.

All possible features such as verification, validation, security, user friendliness etc have been considered.

## **SOFTWARE AND HARDWARE REQUIREMENTS**

✓ Any Version of browser after Mozilla Firefox 4.0, Internet Explorer 6.0, chrome

## **Hardware requirements:**

- ✓ Any processor after Pentium 4.
- ✓ Any version of Windows XP or later.
- ✓ Processor speed: 2.0 GHz
- ✓ RAM:1GB
- ✓ Hard disk: 40GB to 80 GB

### **Software requirements:**

- ✓ Database : MySQL✓ Server : Apache✓ Frontend : HTML
- ✓ Scripting Language : JavaScript
- ✓ IDE : PyCharm
- ✓ Technology : Python
- ✓ Framework : Django

## **SYSTEM DESIGN**

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization.

Once the software requirements have been analyzed and specified the software design involves three technical activities - design, coding, implementation and testing that are required to build and verify the software.

The design activities are of main importance in this phase, because in this activity, decisions ultimately affecting the success of the software implementation and its ease of maintenance are made. These decisions have the final bearing upon reliability and maintainability of the system. Design is the only way to accurately translate the customer's requirements into finished software or a system.

Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Software design is conducted in two steps. Preliminary design is concerned with the transformation of requirements into data

## **Unified Modelling Language Diagrams (UML):**

- The unified modelling language allows the software engineer to express an analysis model using the modelling notation that is governed by a set of syntactic semantic and pragmatic rules.
- A UML system is represented using five different views that describe the system from distinctly different perspective. Each view is defined by a set of diagram, which is as follows.

#### **User Model View**

- i. This view represents the system from the users perspective.
- **ii.** The analysis representation describes a usage scenario from the end-users perspective.

#### Structural model view

- ◆ In this model the data and functionality are arrived from inside the system.
- ◆ This model view models the static structures.

#### **Behavioural Model View**

◆ It represents the dynamic of behavioural as parts of the system, depicting the interactions of collection between various structural elements described in the user model and structural model view.

### **Implementation Model View**

 In this the structural and behavioural as parts of the system are represented as they are to be built.

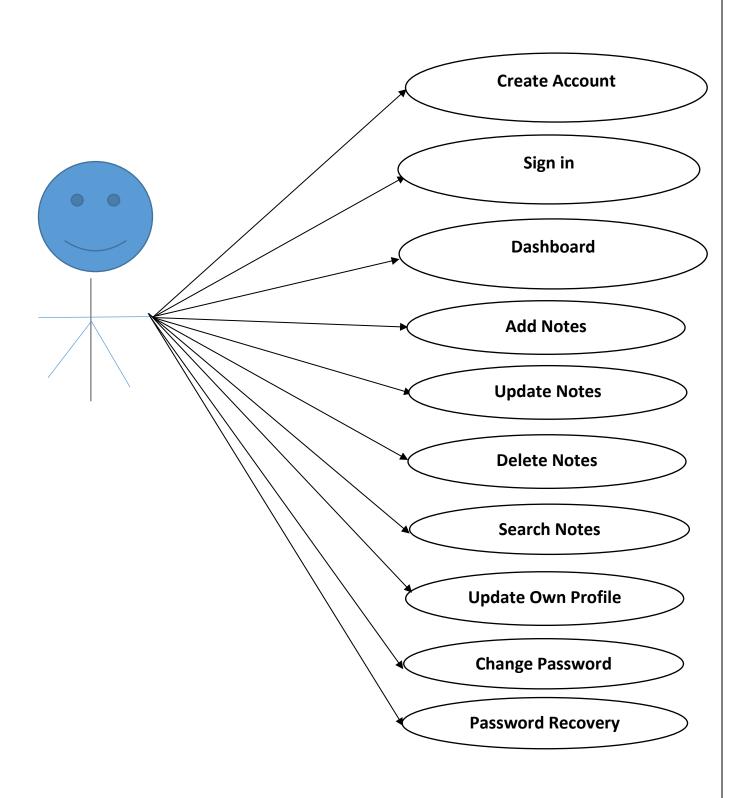
#### **Environmental Model View**

In this the structural and behavioural aspects of the environment in which the system is to be implemented are represented.

UML is specifically constructed through two different domains they are

- UML Analysis modelling, which focuses on the user model and structural model views of the system?
- UML design modelling, which focuses on the behavioural modelling,
   implementation modelling and environmental model views.

## **Use Case Diagrams User**



## **ENTITY-RELATIONSHIP Diagrams**

E-R (Entity-Relationship) Diagram is used to represents the relationship between entities in the table.

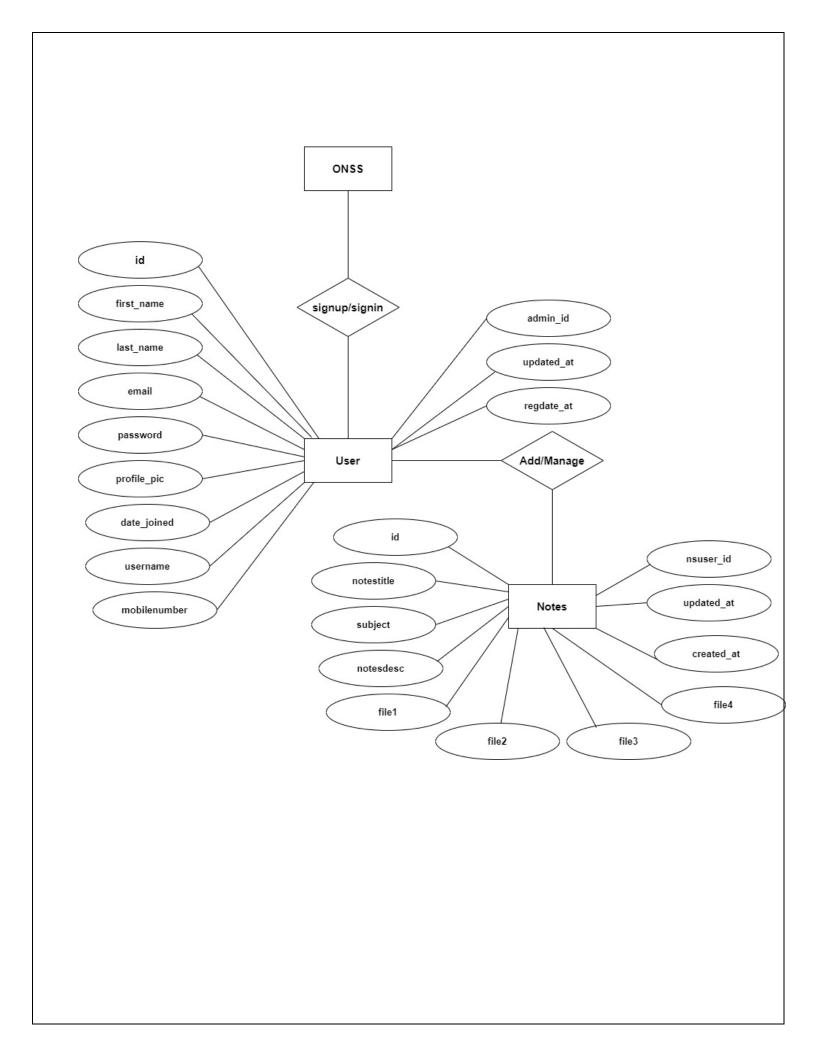
## The symbols used in E-R diagrams are:

<u>SYMBOL</u>	<u>PURPOSE</u>
	Represents Entity sets.
	Represent attributes.
	Represent Relationship Sets.
	Line represents flow

Structured analysis is a set of tools and techniques that the analyst.

To develop a new kind of a system:

The traditional approach focuses on the cost benefit and feasibility analysis, Project management, and hardware and software selection a personal considerations.



## **Data Flow Diagrams**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It can be manual, automated, or a combination of both.

It shows how data enters and leaves the system, what changes the information, and where data is stored.

The objective of a DFD is to show the scope and boundaries of a system as a whole. It may be used as a communication tool between a system analyst and any person who plays a part in the order that acts as a starting point for redesigning a system. The DFD is also called as a data flow graph or bubble chart.

### The following observations about DFDs are essential:

- 1. All names should be unique. This makes it easier to refer to elements in the DFD.
- 2. Remember that DFD is not a flow chart. Arrows is a flow chart that represents the order of events; arrows in DFD represents flowing data. A DFD does not involve any order of events.
- 3. Suppress logical decisions. If we ever have the urge to draw a diamond-shaped box in a DFD, suppress that urge! A diamond-shaped box is used in flow charts to represents decision points with multiple exists paths of which the only one is taken. This implies an ordering of events, which makes no sense in a DFD.
- 4. Do not become bogged down with details. Defer error conditions and error handling until the end of the analysis.

Standard symbols for DFDs are derived from the electric circuit diagram analysis and are shown in fig:

Symbol	Name	Function
	Data flow	Used to Connect Processes to each , other , to sources or Sinks; te arrow head indicates direction of data flow.
	Process	Perfroms Some transformation of Input data to yield output data.
	Source of Sink (External Entity)	A Source of System inputs or Sink of System outputs.
	Data Store	A repository of data; the arrow heads indicate net inputs and net outputs to store.

Symbols for Data Flow Diagrams

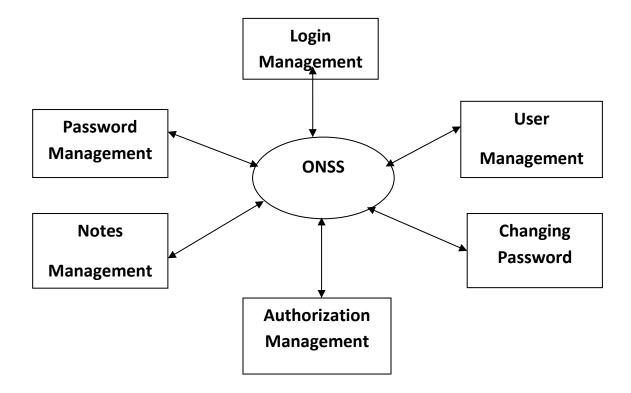
**Circle:** A circle (bubble) shows a process that transforms data inputs into data outputs.

**Data Flow:** A curved line shows the flow of data into or out of a process or data store.

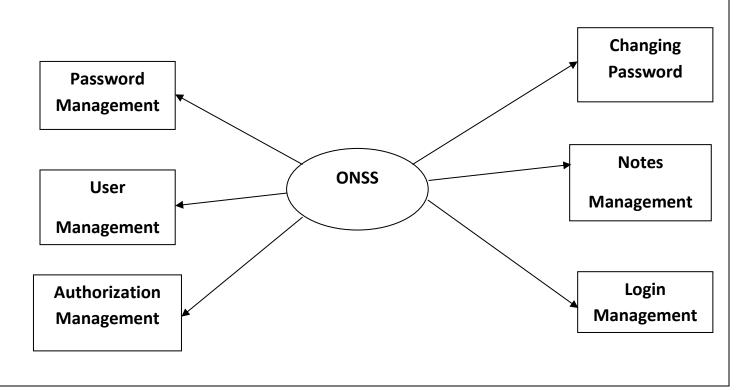
**Data Store:** A set of parallel lines shows a place for the collection of data items. A data store indicates that the data is stored which can be used at a later stage or by the other processes in a different order. The data store can have an element or group of elements.

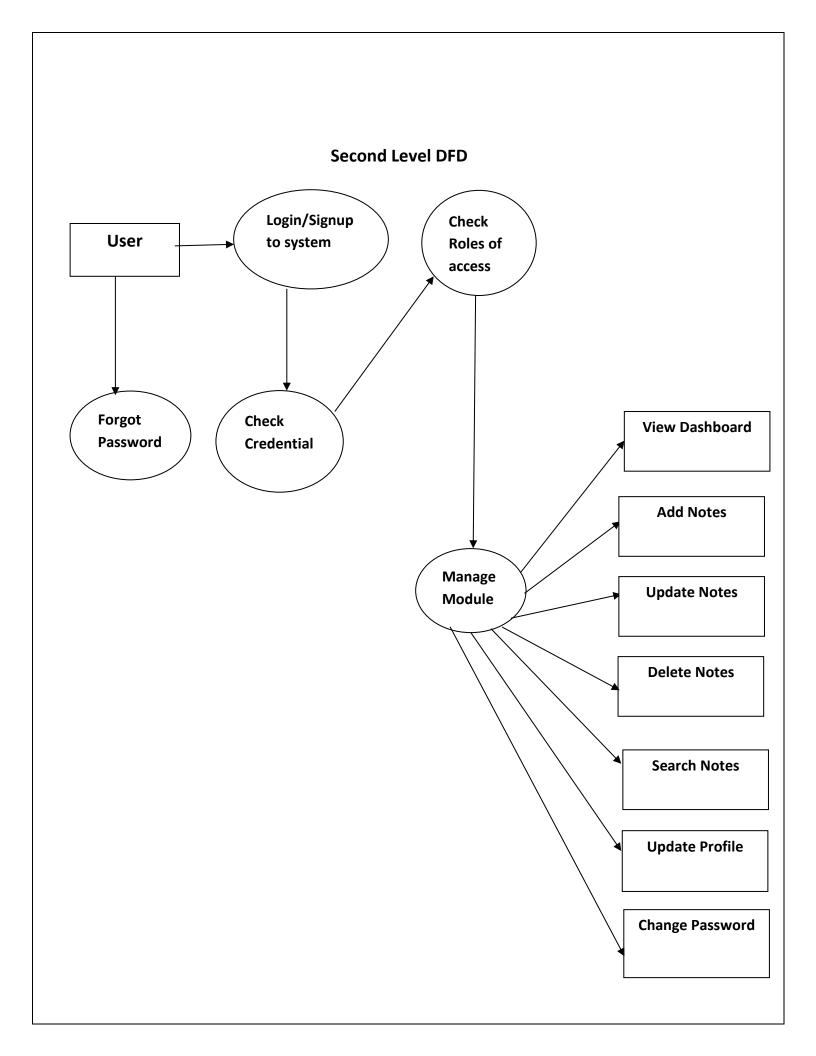
**Source or Sink:** Source or Sink is an external entity and acts as a source of system inputs or sink of system outputs.

### **Zero Level DFD**



### First Level DFD





**DATABASE DESIGN** 

The data in the system has to be stored and retrieved from database. Designing the

database is part of system design. Data elements and data structures to be stored

have been identified at analysis stage. They are structured and put together to design

the data storage and retrieval system.

A database is a collection of interrelated data stored with minimum redundancy to

serve many users quickly and efficiently. The general objective is to make database

access easy, quick, inexpensive and flexible for the user. Relationships are established

between the data items and unnecessary data items are removed. Normalization is

done to get an internal consistency of data and to have minimum redundancy and

maximum stability. This ensures minimizing data storage required, minimizing chances

of data inconsistencies and optimizing for updates. The MySQL database has been

chosen for developing the relevant databases.

Online Notes Sharing System contains 11 MySQL tables(In this MySQL 2 table is

customized and 9 table made by default in django):

**User table Structure:** This table store the login and personal Details of users.

## nssapp\_userreg

;	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
	id	bigint(20)			No	None		AUTO_INCREMENT
2	mobilenumber	varchar(11)	utf8mb4_general_ci		No	None		
;	regdate_at	datetime(6)			No	None		
4	updated_at	datetime(6)			No	None		
,	admin_id	bigint(20)			Yes	NULL		

	Indexes								
	Keyname	Туре	Unique	Packed	Column	Cardinality	Collation	Null	Comment
	PRIMARY	BTREE	Yes	No	id	2	A	No	
admin_id BTREE Yes No admin_id 2 A Yes	admin_id	BTREE	Yes	No	admin_id	2	А	Yes	

**Notes table Structure :** This table store the details of notes which is share by users.

## nssapp\_notes

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	id	bigint(20)			No	None		AUTO_INCREMENT
2	notestitle	varchar(250)	utf8mb4_general_ci		No	None		
3	subject	varchar(250)	utf8mb4_general_ci		No	None		
4	notesdesc	longtext	utf8mb4_general_ci		No	None		
5	file1	varchar(100)	utf8mb4_general_ci		Yes	NULL		
6	file2	varchar(100)	utf8mb4_general_ci		Yes	NULL		
7	file3	varchar(100)	utf8mb4_general_ci		Yes	NULL		
8	file4	varchar(100)	utf8mb4_general_ci		Yes	NULL		
9	created_at	datetime(6)			No	None		
10	updated_at	datetime(6)			No	None		
11	nsuser_id	bigint(20)			Yes	NULL		

	Indexes								
ľ	Keyname	Туре	Unique	Packed	Column	Cardinality	Collation	Null	Comment
l	PRIMARY	BTREE	Yes	No	id	6	A	No	
	nssapp_notes_nsuser_id_fd812ff7_fk_nssapp_userreg_id	BTREE	No	No	nsuser_id	6	А	Yes	
ı									

### **Customized Tables Details**

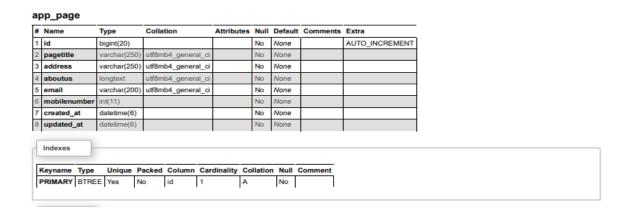
app\_category table Structure: This table store the category of bus.

#### app\_category # Name Collation Attributes Null Default Comments Extra Type 1 id No None AUTO INCREMENT bigint(20) 2 categoryname utf8mb4\_general\_ci No None varchar(200) 3 created\_at No None 4 updated\_at Indexes Unique Packed Column Cardinality Collation Null Comment Keyname Type PRIMARY BTREE Yes No id 4 Α No

app\_customuser table Structure: This table store the login and personal details of admin

#### app\_customuser Attributes Null Default Comments Extra # Name Collation No None AUTO\_INCREMENT bigint(20) varchar(128) 3 last\_login datetime(6) NULL 4 is\_superuser tinyint(1) None varchar(150) utf8mb4\_general\_ci 6 first\_name None 7 last\_name varchar(150) utf8mb4\_general\_ci 9 is\_staff tinyint(1) No None is\_active 11 date\_joined Indexes Keyname Type Unique Packed Column Cardinality Collation Null Comment PRIMARY BTREE Yes No username BTREE Yes No

**app\_page table Structure :** This table store the details of website pages.



**app\_passes table Structure :** This table store the pass details of person.

#### app\_passes

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld	bigint(20)			No	None		AUTO_INCREMENT
2	fullname	varchar(250)	utf8mb4_general_ci		No	None		
3	gender	varchar(100)	utf8mb4_general_ci		No	None		
4	profile_pic1	varchar(100)	utf8mb4_general_ci		No	None		
5	mobilenumber	int(11)			No	None		
6	email	varchar(200)	utf8mb4_general_ci		No	None		
7	identitytype	varchar(200)	utf8mb4_general_ci		No	None		
8	identitycardnumber	varchar(250)	utf8mb4_general_ci		No	None		
9	source	varchar(250)	utf8mb4_general_ci		No	None		
10	destinations	varchar(250)	utf8mb4_general_ci		No	None		
11	fromdate	varchar(250)	utf8mb4_general_ci		No	None		
12	todate	varchar(250)	utf8mb4_general_ci		No	None		
13	cost	int(11)			No	None		
14	passcreated_at	datetime(6)			No	None		
15	category_id_id	bigint(20)			No	None		
16	passnumber	int(11)			No	None		

d	Indexes								
П	Keyname	Туре	Unique	Packed	Column	Cardinality	Collation	Null	Comment
П	PRIMARY	BTREE	Yes	No	id	3	Α	No	
Ш	app_passes_category_id_id_e48fef17_fk_app_category_id	BTREE	No	No	category_id_id	3	A	No	
ľ									

### **Default Tables Details**

authentication\_customuser\_groups table Structure : This table by default table.

#### authentication\_customuser\_groups

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	id	bigint(20)			No	None		AUTO_INCREMENT
2	customuser_id	bigint(20)			No	None		
3	group_id	int(11)			No	None		

authentication\_customuser\_user\_permissions table Structure : This table by default table.

### authentication\_customuser\_user\_permissions

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	id	bigint(20)			No	None		AUTO_INCREMENT
2	customuser_id	bigint(20)			No	None		
3	permission_id	int(11)			No	None		

**auth\_group table Structure :** This table in Django is part of the Django authentication system and is used to represent groups of users.

#### auth\_group

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	id	int(11)			No	None		AUTO_INCREMENT
2	name	varchar(150)	utf8mb4_general_ci		No	None		

auth\_group\_permissions table Structure: This table in Django is a part of the permission system and is used to manage the relationship between user groups and permissions.

#### auth\_group\_permissions

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	id	bigint(20)			No	None		AUTO_INCREMENT
2	group_id	int(11)			No	None		
3	permission_id	int(11)			No	None		

**auth\_permission table Structure :** This table in Django is used to store information about the permissions defined.

#### auth\_permission

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	id	int(11)			No	None		AUTO_INCREMENT
2	name	varchar(255)	utf8mb4_general_ci		No	None		
3	content_type_id	int(11)			No	None		
4	codename	varchar(100)	utf8mb4_general_ci		No	None		
			•					•

**django\_admin\_log table Structure**: This table is used to store records of actions taken by administrators or users through the Django admin interface.

-	Name	Type	Collation	Attributes	Marit	Dofault	Comments	Evtra
			Communication	Attributes			Comments	
1	id	int(11)			No	None		AUTO_INCREMENT
2	action_time	datetime(6)			No	None		
3	object_id	longtext	utf8mb4_general_ci		Yes	NULL		
4	object_repr	varchar(200)	utf8mb4_general_ci		No	None		
5	action_flag	smallint(5)		UNSIGNED	No	None		
6	change_message	longtext	utf8mb4_general_ci		No	None		
7	content_type_id	int(11)			Yes	NULL		
8	user_id	bigint(20)			No	None		

django\_content\_type table Structure: This table in Django is a system table that is used to

store information about each model (database table) in your Django project.

#### django\_content\_type

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	id	int(11)			No	None		AUTO_INCREMENT
2	app_label	varchar(100)	utf8mb4_general_ci		No	None		
3	model	varchar(100)	utf8mb4_general_ci		No	None		

**django\_migrations table Structure**: This table table is part of the database schema and is used to keep track of which migrations have been applied to the database.

### django\_migrations

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	id	bigint(20)			No	None		AUTO_INCREMENT
2	арр	varchar(255)	utf8mb4_general_ci		No	None		
3	name	varchar(255)	utf8mb4_general_ci		No	None		
4	applied	datetime(6)			No	None		

**django\_session table Structure :** This table store the session data for user.

### django\_session

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	session_key	varchar(40)	utf8mb4_general_ci		No	None		
2	session_data	longtext	utf8mb4_general_ci		No	None		
3	expire_date	datetime(6)			No	None		

### **Class Diagram:**

The class diagram shows a set of classes, interfaces, collaborations and their relationships.



## **SYSTEM TESTING**

### **SOFTWARE TESTING TECHNIQUES:**

Software testing is a critical element of software quality assurance and represents the ultimate review of specification, designing and coding.

#### **TESTING OBJECTIVES:**

- 1. Testing is process of executing a program with the intent of finding an error.
- 2. A good test case design is one that has a probability of finding an as yet undiscovered error.
- 3. A successful test is one that uncovers an as yet undiscovered error.

These above objectives imply a dramatic change in view port.

Testing cannot show the absence of defects, it can only show that software errors are present.

There are three types of testing strategies

- 1. Unit test
- 2. Integration test
- 3. Performance test

### **Unit Testing:**

Unit testing focuses verification efforts on the smallest unit of software design module. The unit test is always white box oriented. The tests that occur as part of unit testing are testing the module interface, examining the local data structures, testing the boundary conditions, execution all the independent paths and testing error-handling paths.

### **Integration Testing:**

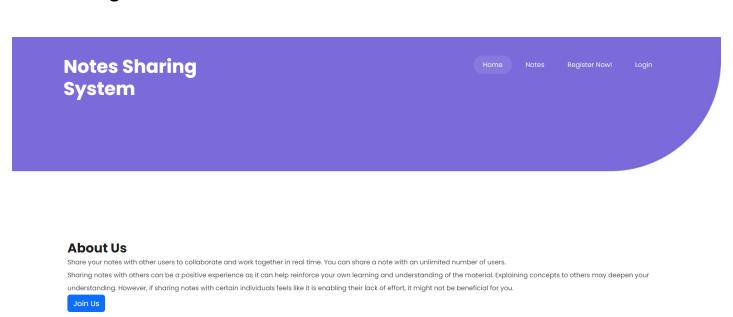
Integration testing is a systematic technique or construction the program structure while at the same time conducting tests to uncover errors associated with interfacing. Scope of testing summarizes the specific functional, performance, and internal design characteristics that are to be tested. It employs top-down testing and bottom-up testing methods for this case.

### **Performance Testing:**

Timing for both read and update transactions should be gathered to determine whether system functions are being performed in an acceptable timeframe.

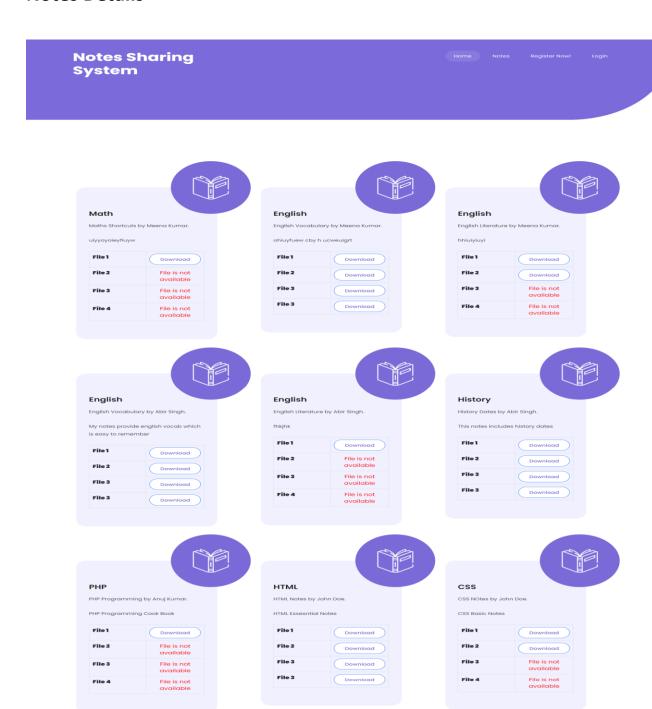
# **OUTPUT SCREEN OF PROJECT**

## **Home Page**



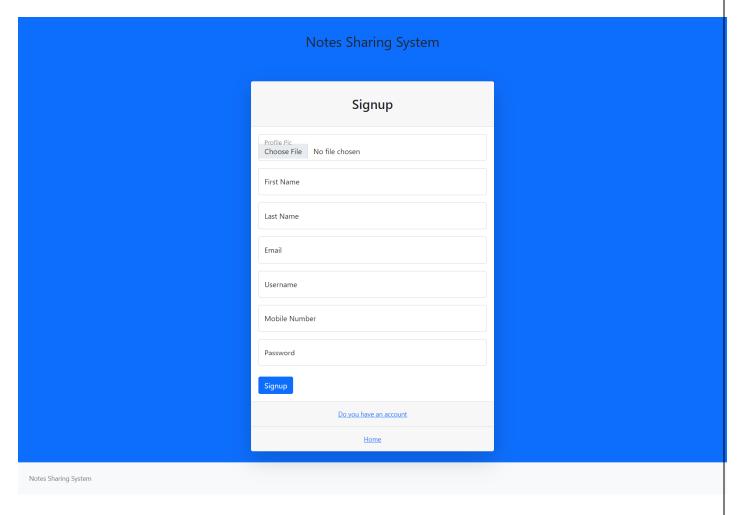
Notes Sharing System @ Python(Django)

### **Notes Details**

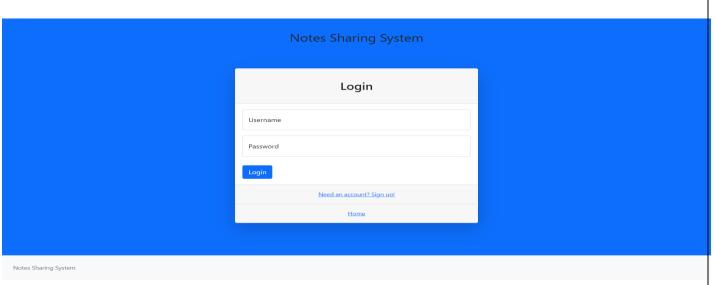


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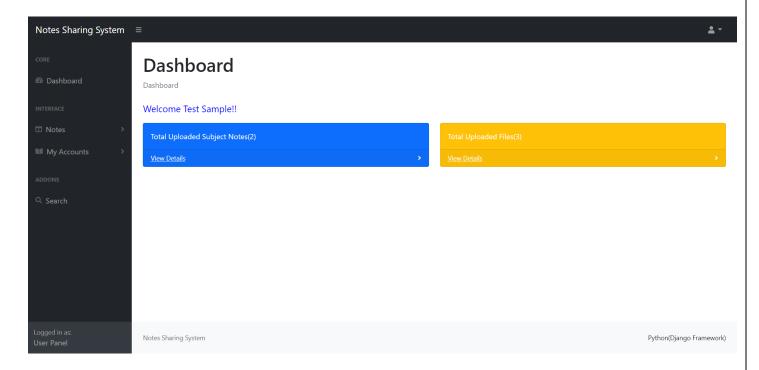
## **User Signup**



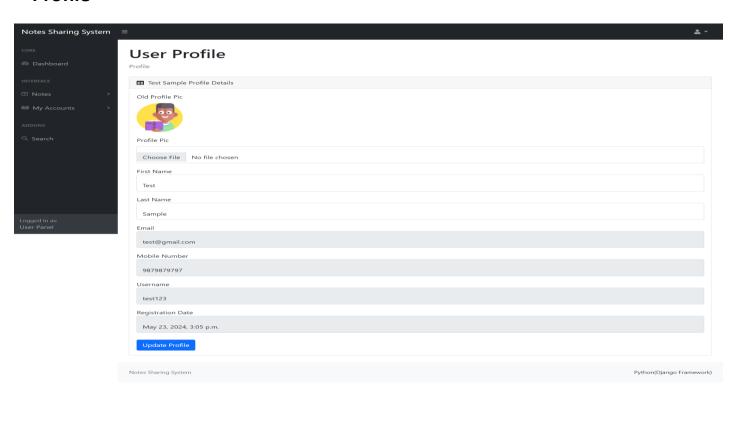
## **User Sign in**



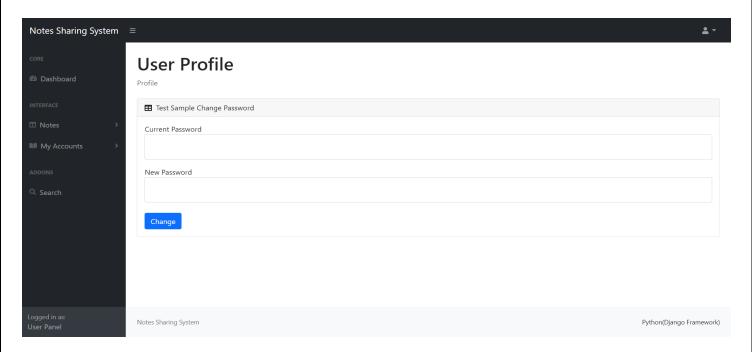
## **Dashboard**



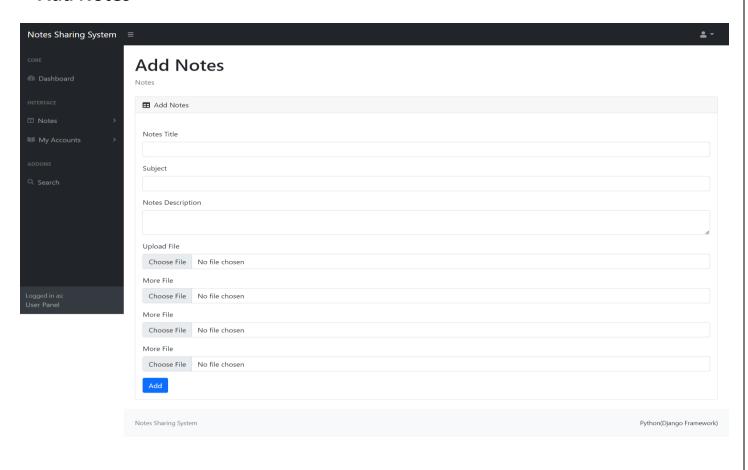
## **Profile**



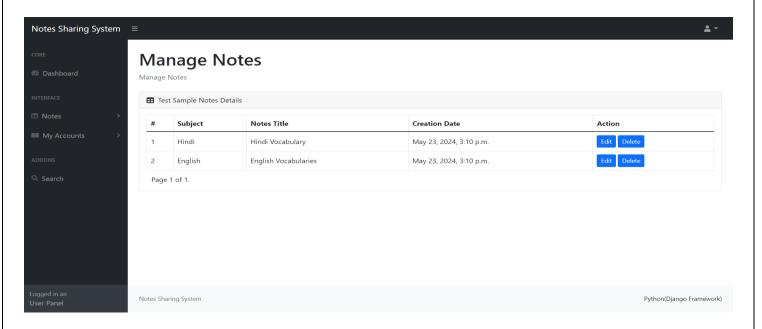
## **Change Password**



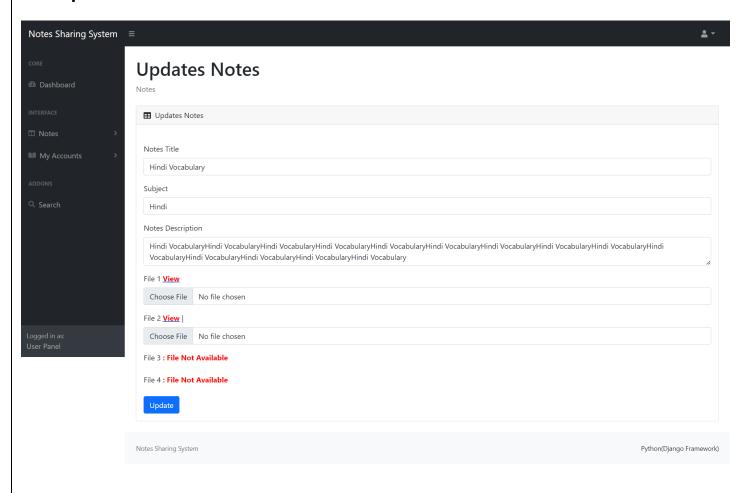
## **Add Notes**



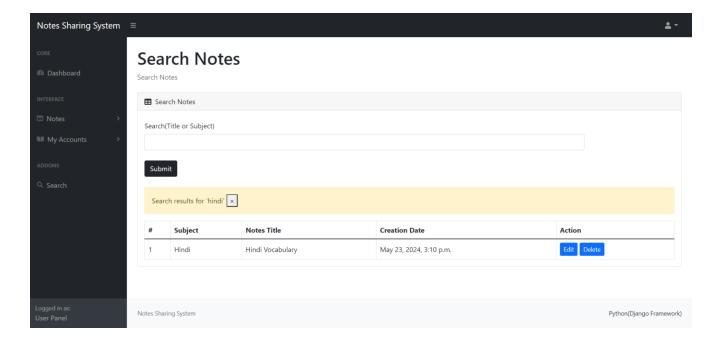
## **Manage Notes**



## **Update Notes**



## **Search Notes**



## **CONCLUSION**

The project titled as **Online Notes Sharing System** was deeply studied and analyzed to design the code and implement. It was done under the guidance of the experienced project guide. All the current requirements and possibilities have been taken care during the project time.

Computer has got clear advantage over the manual system. The computerized system is more reliable, efficient and fast at the end of the project, I can say that computer play a very crucial role in the development of firm. All the daily reports generated by the system are to be checked by the concerned official so as to ensure that all the transactions have been put through in appropriate accounts and this is tallied with the new vouchers. Computer does maximum work with in minimum time. Because it is used in every field so that it provides comfort and suitability to everyone. Providing maximum facilities and comfort to customers to customers is main goal of the firm. To achieve this goal, other modern facilities relating to computer should have to be provided.

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- [4] Django documentation. <a href="http://docs.djangoproject.com">http://docs.djangoproject.com</a>.
- [5] Python(programming language). <a href="http://en.wikipedia.org/wiki/Python">http://en.wikipedia.org/wiki/Python</a>.
- [6]Books: Web Development with Django by Ben Shaw, Saurabh, Django 4 By Example by Antonio Mele

## For MySQL

- https://www.mysql.com/
- http://www.mysqltutorial.org

#### For XAMPP

https://www.apachefriends.org/download.html

