

**MINI PROJECT REPORT**

**ON**

**“User Management System”**

**(Laboratory Practice – I (ADBMS))**

**SUBMITTED BY**

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Under the Guidance Of

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2021-2022

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**CERTIFICATE**

This is to certify that student Aneeket Deo, Roll No. TI89 is studying in TE INFORMATION TECHNOLOGY course in SEM V and he/she has successfully completed and submitted the **Mini Project Report under the subject Laboratory Practice – I (ADBMS)**, entitled “User Management System “. This study is a partial fulfillment of the degree of Bachelor of Engineering in Information Technology of Savitribai Phule Pune University, PUNE during the academic year 2021-2022.

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### **ABSTRACT**

User management, in its simplest form, is the method by which you create, remove and maintain your user store. Any solution designed to serve multiple users must have some type of a user management system, be it a proprietary tool built into the product or a tie into an existing system such as Active Directory/LDAP, or another identity provider.

User management not only establishes a user's authorization to access secure resources, it also serves as a repository of identities and, if done efficiently, can be the source of all identities for an organization.

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# 1 INTRODUCTION

User management involves defining and managing users, roles, and their access levels in a system. A user management dashboard or console provides system administrators with a high-level view of a system's active user sessions, their login statuses, the privileges of each user, and their activity in the system. It enables system admins to make business-critical, real-time security decisions. A typical user management implementation involves a wide range of functionality such as adding/deleting users, controlling user activity through permissions, managing user roles, defining authentication policies, managing external user stores and manual/automatic logout, and resetting passwords.

Any user management system has the following basic components:

- **Users:** Users are consumers who interact with your organizational applications, databases, and other systems. A user can be a person, a device, or another application/program within or outside of the organization's network. Because users interact with internal systems and access data, organizations need to define which data and functionality each user can access by assigning permissions.
- **Permissions:** A permission is a delegation of authority or a right that is assigned to a user or a group of users to perform an action on a system. Permissions can be granted to or revoked from a user, user group, or user role automatically or by a system administrator. For example, if a user has the permission to log in to a system, the permission to log out is automatically granted as well.
- **User roles:** A user role is a grouping of permissions. In addition to assigning individual permissions to users, admins can create user roles and assign those roles to users. For example, you might create user roles called VP, Manager, and Employee, each of which has a different set of permissions, and then assign those roles to users based on their position in the company. Then, if you need to modify the permissions of all your managers, you can simply modify the Manager user role, and all the users with that role will have their permissions updated automatically.

### 1.1 Objective:

When reviewing user management tools, it's important to understand two things:

1. your integration and management needs, and 2. the ability of your cloud services to communicate through an API. Each of these factors plays a crucial role in the usability of the tool.

**Integration:** is the ability to tie into existing systems through an agent or by federation. This makes the migration off of older systems a breeze, or at least eases user adoption in that users can immediately use their existing credentials in the new system.

**Management:** includes all the features that allow you to complete user management tasks once users are in the system. This includes user and password storage, CRUD (create, update, read, and delete) operations, policy (security, password) management, attribute transformation, and self service flows such as account recovery and registration.

As the adoption of cloud services increase, so does the need to manage user access via an API. The ability to allow API communication makes your user management tasks more accessible and increases the efficiency and flexibility of your system.

### 1.2 Methodology:

To achieve our objectives outlined in the Introduction, we engaged in the following activities:

- reviewed parameters used for securing user accounts
- analyzed user accounts reports for identifying accounts shared by multiple users
- Translated, compiled and assessed data through Mongo db database which was then used to examine
- Analysed findings and drew discussion points and final considerations



## 2 REQUIREMENTS:

### **2.1:Software Requirements:**








HTML, VS code, Express.js, Node.js, MongoDB, CSS

### **2.2:Hardware Requirments:**

Any OS with minimum 4gb RAM,

## 3 GRAPHIC USER INTERFACE

### Dashboard:-

User Management System					
<div>New User </div>					
ID	Name	@Email	Gender	Status	Action
1	Aneeket Deo	aneeketdeo@gmail.com	Male	Active	 
2	Smitesh Kamble	smiteshkamble@gmail.com	Male	Active	 
3	Nilesh Dongare	nileshdongare@gmail.com	Male	Inactive	 

### Add New User:-

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User Management System

[← All Users](#)

### New User

Use the below form to create a new account

Name

Mark Stoenis

Email

example@gmail.com

Gender

☒ Male

☐ Female

Status

☒ Active

☐ Inactive

Save

### Update User:-

User Management System

[<< All Users](#)

Update User

Use the below form to Update an account

Name

Aneeket Deo

Email

aneeketdeo@gmail.com

Gender

☒ Male ☐ Female

Status

☒ Active ☐ Inactive

Save

## **4 FUTURE ENHANCEMENT**

- Adding more features
- Convenient GUI for Users
- Commercial enhancement
- More Flexibility
- Admin Panel
- Login and Signup System

## **5 CONCLUSION**

We learned what user management is, its benefits, user management software, the requirements for effective user management and why there is a shift to cloud based user management services

## **6. REFERENCES**

- wikipedia
- Youtube