

PROGRAM BOOK FOR
SEMESTER INTERNSHIP



Name of the Student: **ADIGARLA BHARGAVA**

Name of the College: **MRS AVN COLLEGE**

Visakhapatnam.



Registration Number: 120130803006

Period of Internship: 15 weeks (540 Hours) From: 01.04.2023 To: 14.07.2023

Name & Address of the Intern Organization IICTE Private Plot no-24, opposite Y
School, Srinivasa Nagar, Gitam College Road, Visakhapatnam, **Andhra Pradesh.**

Mrs AVN COLLEGE, Visakhapatnam.

Andhra University

YEAR 2022-2023

An Internship Report on
SYSTEM ADMINISTRATION
PROJECT

Submitted in accordance with the requirement for the degree of
B.COM (ACCOUNTS, ECONOMICS, BUSSINESS)

Under the Faculty Guide ship of

Mr. B. Pradeep Kumar

Department of Commarce.

Mrs AVN COLLEGE

Visakhapatnam.

Submitted by:

ADIGARLA BHARGAVA

Reg. No: 120130803006

Department of Commarce

Mrs AVN COLLEGE

Visakhapatnam.

Student's Declaration

I, ADIGARLA BHARGAVA a student of *B.COM (ACCOUNTS, ECONOMICS, BUSSINESS) Program*, Reg. No. 120130803006 of the Department of COMMERCE, Mrs AVN COLLEGE VISAKHAPATNAM, do hereby declare that I have completed the mandatory internship from 01.04.2023 to 14.07.2023 (540 Hours) in *ICTE Private Limited*, Visakhapatnam, under the Faculty Guide ship of *Mr. B. Pradeep Kumar*, Department of COMMERCE, Mrs AVN COLLEGE, Visakhapatnam.

(Signature and Date)

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Official Certification

This is to certify that *ADIGARLA BHARGAVA* Reg. No. *120130803006* has completed his/her Internship in *IICTE Private Limited, Visakhapatnam* on **SYSTEM ADMINISTRATION** under my supervision as a part of partial fulfilment of the requirement for the Degree of *B.COM(ACCOUNTS,ECONOMICS, BUSSINESS)* in the Department of *Commerce, Mrs AVN COLLEGE, Visakhapatnam.*

This is accepted for evaluation.



[Signature]
14/7/23

(Signatory with Date and Seal)

Endorsements

[Signature]
Faculty Guide

[Signature]
Head of the Department

[Signature]
Principal
PRINCIPAL
Mrs. A.V.N. COLLEGE
VISAKHAPATNAM

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Certificate from Intern Organization

This is to certify that *ADIGARLA BHARGAVA* Reg. No. *120130803006* of Mrs *AVN COLLEGE, Visakhapatnam*. Underwent internship in *IICTE Private Limited, Visakhapatnam* from 01.04.2023 to 14.07.2023 (540 HOURS).

The overall performance of the intern during his/her internship is found to be Satisfactory.



[Handwritten Signature]
14/7/23

Authorized Signatory with Date and Seal

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Acknowledgements

It gives me an immense pleasure and pride to express my sincere gratitude and respect for my teacher and guide Mr B.Pradeep Kumar Lecturer in commerce, Mrs AVN COLLEGE, Visakhapatnam for his expert and inspiring guidance.

Also, I am very grateful to the head of the Department of Commerce, and the other faculty members of the commerce Department for being a source of support during this project period.

I would like to extend my gratitude to my principal Sir Dr. SIMHADRI NAIDU for providing me all the necessary facilities that were required for successful completion of this internship.

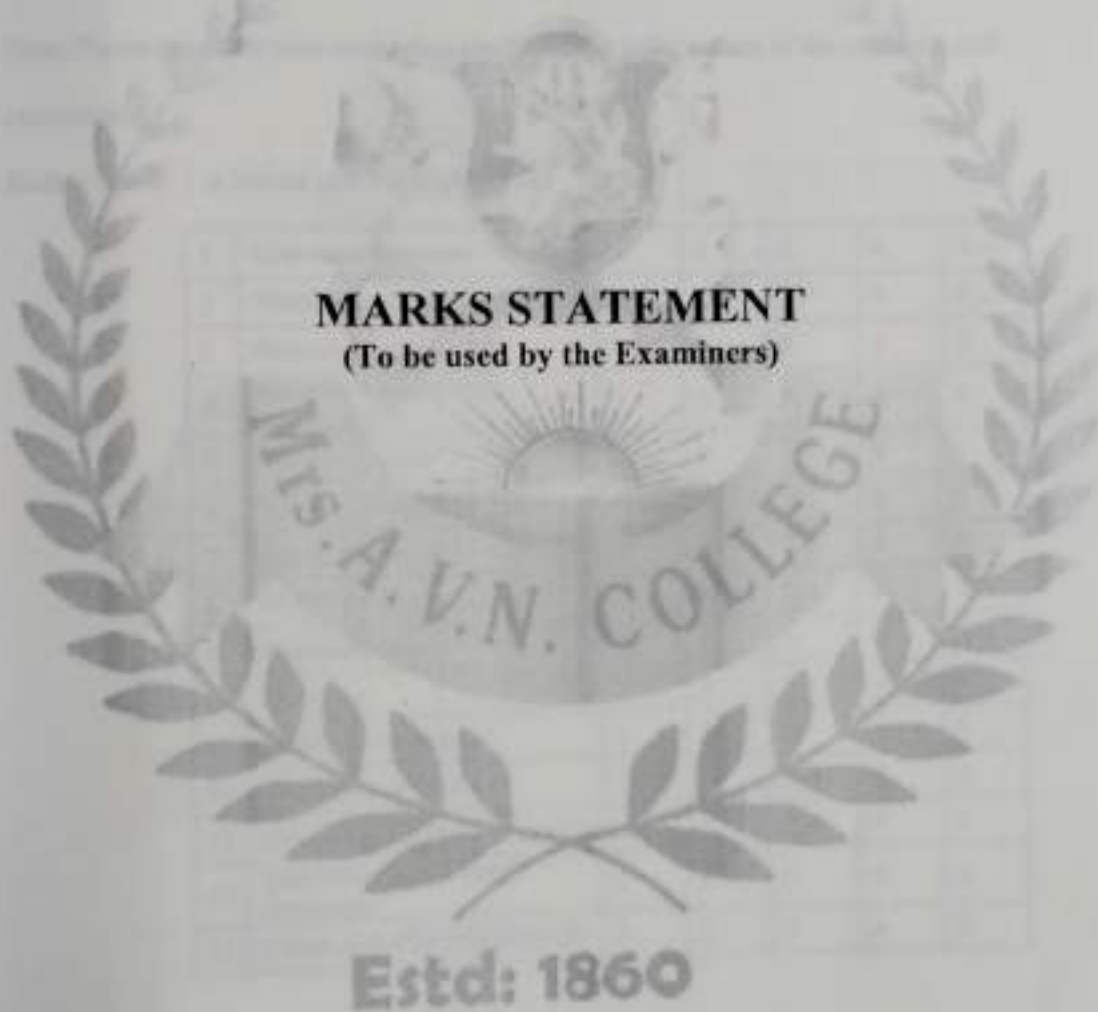
I also thank IICTE Private Limited, Visakhapatnam for providing internship opportunity.

My special thanks to the internship trainer Sri. E NAGESWARARAO for their constant support, encouragement and timely advice.

A. Ghargava
Signature of the student

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MARKS STATEMENT
(To be used by the Examiners)



Student Name: ADIGARLA BHARAGVA

Registration Number: 120130803009

Term of Internship: 15 WEEKS (540 Hours) From: 01.04.2023 To: 14.07.2023

Date of Evaluation:

Organization Name & Address: HCTE Pvt Ltd, Opposite Y School, Srinivasa Nagar,
GITAM College Road, Visakhapatnam.


Name & Address of the Supervisor with Mobile Number:

Note: Please note that your evaluation shall be done independent of the student's self-evaluation.

Rating Scale: 1 is lowest and 5 is highest rank

1	Oral communication	1	2	3	4	5 ✓
2	Written communication	1	2	3	4	5 ✓
3	Proactiveness	1	2	3	4	5 ✓
4	Interaction ability with community	1	2	3	4	5 ✓
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5 ✓
7	Ability to learn	1	2	3	4	5 ✓
8	Work Plan and organization	1	2	3	4	5 ✓
9	Professionalism	1	2	3	4	5 ✓
10	Creativity	1	2	3	4	5 ✓
11	Quality of work done	1	2	3	4	5 ✓
12	Time Management	1	2	3	4	5 ✓
13	Understanding the Community	1	2	3	4	5 ✓
14	Achievement of Desired Outcomes	1	2	3	4	5 ✓
15	OVERALL PERFORMANCE	1	2	3	4	5 ✓

Date: 14/07/2023


Signature of the Supervisor

Student Self-Evaluation of the Semester Internship

Student Name: ADIGARLA BHARAGVA

Registration Number: 120130803006

Term of Internship: 15 WEEKS (540Hours) From:01.04.2023 To:14.07.2023

Date of Evaluation:

Organization Name & Address: Mrs AVN COLLEGE,
Visakhapatnam.

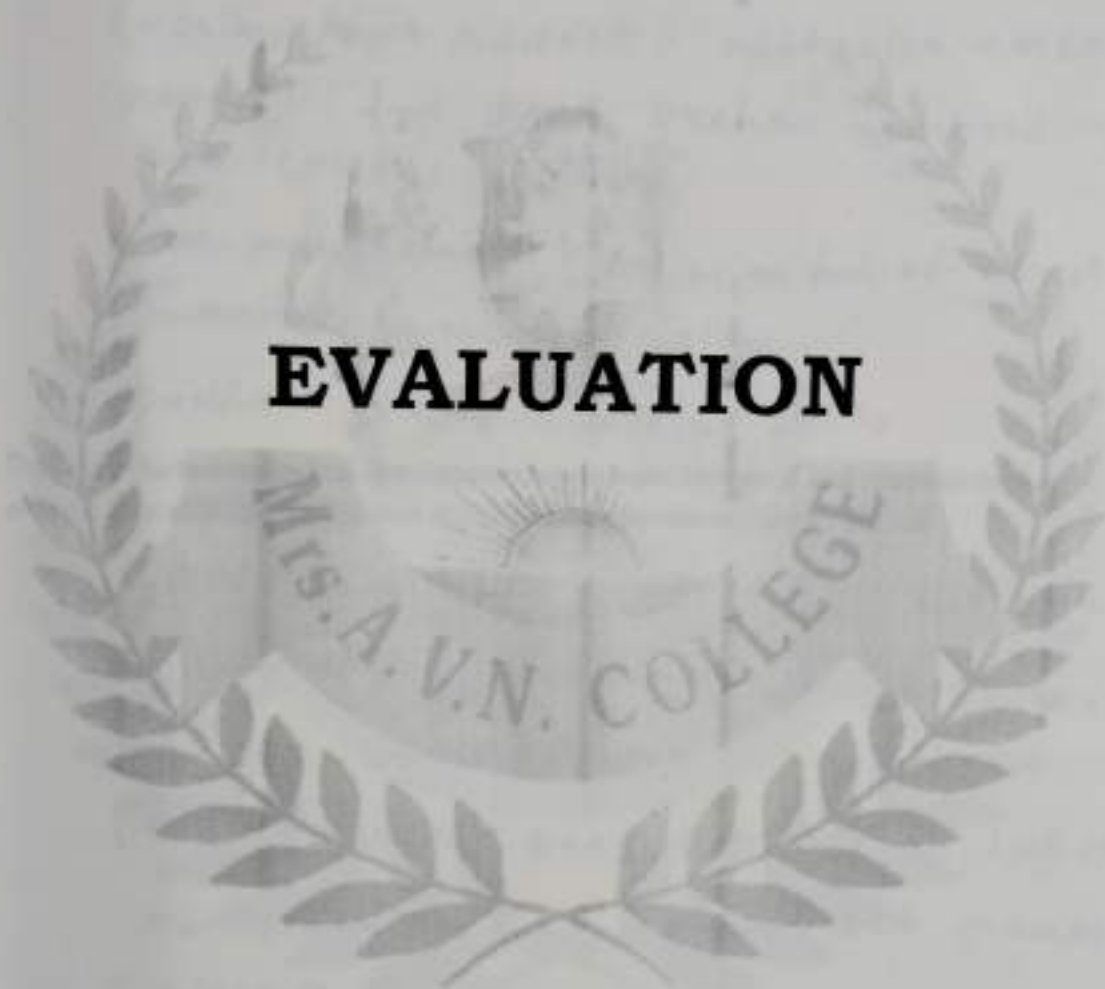
1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
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15	OVERALL PERFORMANCE	1	2	3	4	5

Date: 14-07-2023

A. Bhargava
Signature of the Student

Evaluation by the Supervisor of the Intern Organization

EVALUATION



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Describe how you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity

Active listening: practice active listening by paying full attention to others during group discussions.

Empathy and respect: advise empathy and respect for your team members' ideas and contributions.

Time management: Be mindful of constraints during group discussions.

Problem solving - setting skills.

Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

Natural Language Processing: NLP has significantly advanced enabling machines to understand

Deep Learning: Deep learning as a subset of machine has experienced remarkable advancements.

* Generative Adversarial Networks (GAN) are a class of machine learning models that are capable of generating real data.

* Cloud computing

* Reinforcement Learning

Describe the managerial skills you have acquired (in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.)

Planning and organizing: managers need to be skilled in creating strategic plans setting goals and organizing resources to achieve objectives

Leadership: effective managers inspire and motivate their teams to towards a common goal

Team work and collaborating: managers should team work and foster a collaborative work

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.)

Communication:

* Practice active listening: pay to listen maintain eye contact and show genuine interest in what they are saying

* you clearly and concisely

* use appropriate body language smile and nod

* written communication

* conversational abilities

* confidence and anxiety management

CHAPTER 4: OUTCOMES DESCRIPTION

Describe the work environment you have experienced (in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.

People Interaction: A supportive work environment fosters positive interactions promotes open communication

Maintenance: A well maintained and organized work space is important for product activity

Clarity of Job roles: Clear job roles and well protocols procedures, processes.

Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

Programming and Software development:-

I am assine with programming languages such as python, Java etc, Java script

Web Development: HTML, CSS, Java, script

libraries like react

* Data base management

* net working and IT infrastructure

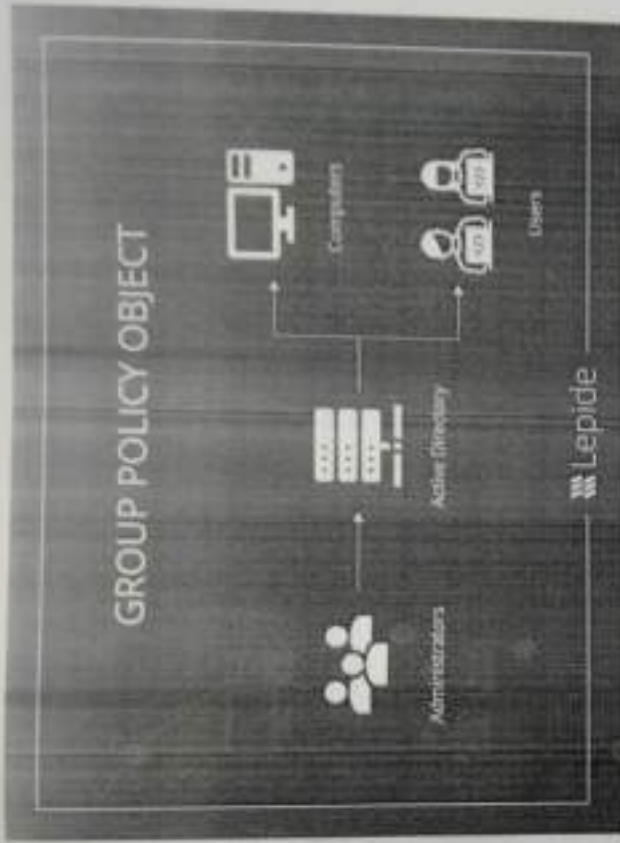


FUTURE SCOPE

If throwing some light on the future of this program, so this project has great scope in future. In future we will include many features to this program.

We have countless amendments to make on this project from security & encryption of data to the frontend work.

While everything discussed in this chapter may seem like a lot of additional work that takes away from the "real" work of administering systems, actually the opposite is true; only by keeping this philosophy in mind will you give your users the service they deserve, and reach your full potential as a system administrator.



- The Group Policy Auditing solution will help you to get more visibility over the changes being made to your Group Policy Objects. Every time a critical change is made, Lepide will send the admin a real-time alert and provide the option to null back unwanted changes to their previous state; allowing admins to maintain a policy of least privileges and ensure the security policies of the organization remain intact.



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Kerberos Policy. These policies are used for domain user accounts; they determine Kerberos-related settings, such as ticket lifetimes and enforcement.

- **Local Policies.** These policies apply to a computer and include the following types of policy settings.

- **Audit Policy.** Specify security settings that control the logging of security events into the Security log on the computer, and specifies what types of security events to log (success, failure, or both).

Note

For devices running Windows 7 and later, we recommend to use the settings under Advanced Audit Policy Configuration rather than the Audit Policy settings under Local Policies.

- **User Rights Assignment.** Specify the users or groups that have sign-in rights or privileges on a device.
- **Security Options.** Specify security settings for the computer, such as Administrator and Guest Account names; access to floppy disk drives and CD-ROM drives; installation of drivers; sign-in prompts; and so on.

- A Group Policy Object (GPO) is a group of settings that are created using the Microsoft Management Console (MMC) Group Policy Editor. GPOs can be associated with single or numerous Active Directory containers, including sites, domains, or organizational units (OUs). The MMC allows users to create GPOs that define registry-based policies, security options, software installation, and much more.

- Active Directory applies GPOs in the same, logical order: local policies, site policies, domain policies and OU policies.

- **Note:** GPOs that are in nested OUs work from the OU closest to the root first and outwards from there.



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Security policy settings

Applies to

- Windows 10
- Windows 11

This reference topic describes the common scenarios, architecture, and processes for security settings.

Security policy settings are rules that administrators configure on a computer or multiple devices for protecting resources on a device or network. The Security Settings extension of the Local Group Policy Editor snap-in allows you to define security configurations as part of a Group Policy Object (GPO). The GPOs are linked to Active Directory containers such as sites, domains, or organizational units, and they enable you to manage security settings for multiple devices from any device joined to the domain. Security settings policies are used as part of your overall security implementation to help secure domain controllers, servers, clients, and other resources in your organization.

Security settings can control:

- User authentication to a network or device.
- The resources that users are permitted to access.
- Whether to record a user's or group's actions in the event log.
- Membership in a group.

To manage security configurations for multiple devices, you can use one of the following options:

- Edit specific security settings in a GPO.
- Use the Security Templates snap-in to create a security template that contains the security policies you want to apply, and then import the security template into a Group Policy Object. A security template is a file that represents a security configuration, and it can be imported to a GPO, applied to a local device, or used to analyze security.

For more info about managing security configurations, see [Administer security policy settings](#).

The Security Settings extension of the Local Group Policy Editor includes the following types of security policies:

- **Account Policies.** These policies are defined on devices; they affect how user accounts can interact with the computer or domain. Account policies include the following types of policies:
 - **Password Policy.** These policies determine settings for passwords, such as enforcement and lifetimes. Password policies are used for domain accounts.
 - **Account Lockout Policy.** These policies determine the conditions and length of time that an account will be locked out of the system. Account lockout policies are used for domain or local user accounts.

COMPUTER ADMINISTRATION

System administration refers to the management of one or more hardware and software systems.

The task is performed by a system administrator who monitors system health, monitors and allocates system resources like disk space, performs backups, provides user access, manages user accounts, monitors system security and performs many other functions.

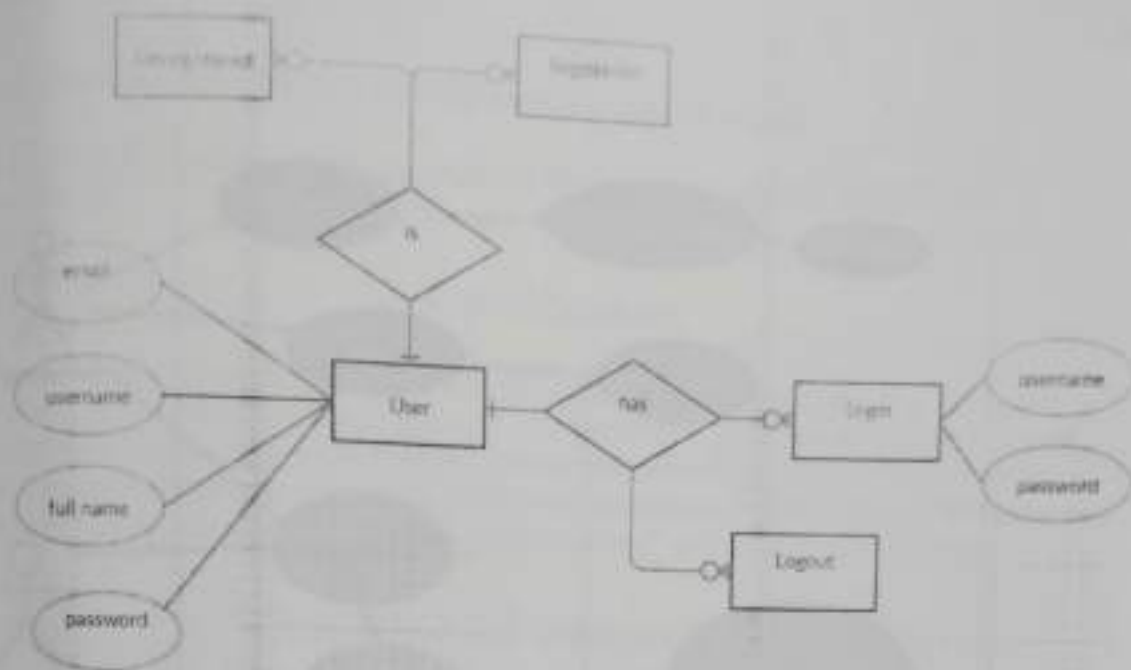
System administration is a job done by IT experts for an organization. The job is to ensure that computer systems and all related services are working well. The duties in system administration are wide ranging and often vary depending on the type of computer systems being maintained, although most of them share some common tasks that may be executed in different ways.

Common tasks include installation of new hardware or software, creating and managing user accounts, maintaining computer systems such as servers and databases, and planning and properly responding to system outages and various other problems. Other responsibilities may include light programming or scripting to make the system workflows easier as well as training computer users and assistants.

specifications

- Managing Windows, Linux, or Mac systems
- Upgrading, installing, and configuring application software and computer hardware
- Troubleshooting and providing technical support to employees
- Creating and managing system permissions and user accounts
- Performing regular security tests and security monitoring
- Maintaining networks and network file systems

If you're using Windows 10, version 1803 and later, you can add security questions as you'll see in step 4 under **Create a local user account**. With answers to your security questions, you can reset your Windows 10 local account password. Not sure which version you have? You can check your version.



Entity Relationship diagram

Default local system accounts

SYSTEM

NETWORK SERVICE

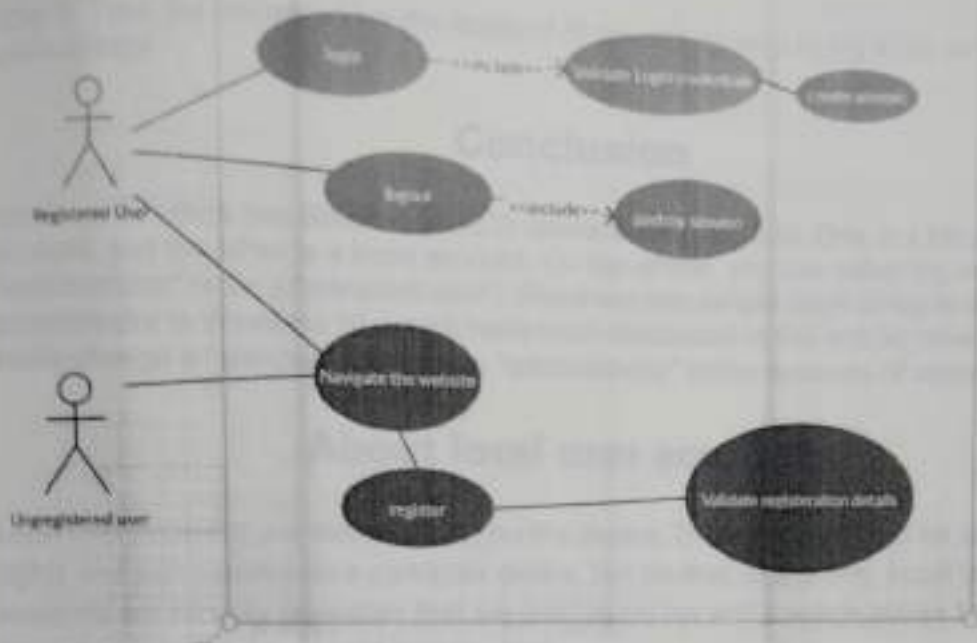
LOCAL SERVICE

How to manage local user accounts

The default local user accounts, and the local user accounts you create, are located in the Users folder. The Users folder is located in Local Users and Groups. For more information about creating and managing local user accounts, see [Manage Local Users](#).

You can use Local Users and Groups to assign rights and permissions on only the local server to limit the ability of local users and groups to perform certain actions. A right authorizes a user to perform certain actions on a server, such as backing up files and folders or shutting down a server. An access permission is a rule that is associated with an object, usually a file, folder, or printer. It regulates which users can have access to an object on the server and in what manner.

You can't use Local Users and Groups on a domain controller. However, you can use Local Users and Groups on a domain controller to target remote computers that aren't domain controllers on the network.



Use-case Diagram



Step 4. After the sign-out, click the Administrator user account.

Step 5. Type the password for the account (if you set up any) to log in as an administrator.

Conclusion

Windows 10 offers two different ways to create a user account. One is a Microsoft account, and the other is a local account. On top of this, you can either log in as an "administrator" or as a "standard user". There are two simple ways to log in as an administrator in Windows 10, which have been discussed in this article. Now, you can easily change a "standard user" to an "administrator" within a couple of steps.

About local user accounts

Local user accounts are stored locally on the device. These accounts can be assigned rights and permissions on a particular device, but on that device only. Local user accounts are security principals that are used to secure and manage access to the resources on a device, for services or users.

Default local user accounts

The *default local user accounts* are built-in accounts that are created automatically when the operating system is installed. The default local user accounts can't be removed or deleted and don't provide access to network resources.

Default local user accounts are used to manage access to the local device's resources based on the rights and permissions that are assigned to the account. The default local user accounts, and the local user accounts that you create, are located in the *Users* folder. The *Users* folder is located in the Local Users and Groups folder in the local *Computer Management* Microsoft Management Console (MMC). *Computer Management* is a collection of administrative tools that you can use to manage a local or remote device.

Default local user accounts are described in the following sections. Expand each section for more information.