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# Requirements Gathering:

Using a computer running the Linux operating system

*Unit 2 Seminar*

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# Usage of a computer running the Linux operating system - 1

## Explanation of Scenario:

**Administrator installs software:** This scenario describes the process of an administrator installing software using the package manager.

Gherkin language

Scenario: Administrator installs software

**Given** the administrator is logged into the system

**When** the administrator runs the command "sudo apt install <software-package>"

**Then** the software should be installed successfully

**And** the administrator should see a confirmation message

User story

**As a** system administrator

**I want to** install software packages using the command line

**So that** the software is installed successfully on the system

## Usage of a computer running the Linux operating system - 2

### Explanation of Scenario:

**User creates a new file:** This scenario illustrates a user creating a new file in their home directory.

Gherkin language

Scenario: User creates a new file

**Given** the user is logged into their account

**When** the user runs the command "touch newfile.txt"

**Then** a new file named "newfile.txt" should be created in the current directory

User story

**As a** user

**I want to** create a new file using the command line

**So that** the file is available in the current directory for further use

## Usage of a computer running the Linux operating system - 3

### Explanation of Scenario:

**User edits a file:** This scenario shows a user editing an existing file using a text editor.

Gherkin language

Scenario: User edits a file

**Given** the user has a file named "document.txt"

**When** the user runs the command "nano document.txt"

**And** the user adds the text "Hello, World!"

**And** the user saves and exits the editor

**Then** the file "document.txt" should contain the text "Hello, World!"

User story

**As a** user

**I want to** edit an existing file using a text editor

**So that** I can add or modify the content of the file

## Usage of a computer running the Linux operating system - 4

### Explanation of Scenario:

**Administrator manages user accounts:** This scenario involves the administrator creating a new user account.

Gherkin language

Scenario: Administrator manages user accounts

**Given** the administrator is logged into the system

**When** the administrator runs the command "sudo adduser newuser"

**Then** a new user account named "newuser" should be created

**And** the administrator should see a confirmation message

User story

**As an** administrator

**I want to** create new user accounts using the command line

**So that** new users can access the system

## Usage of a computer running the Linux operating system - 5

### Explanation of Scenario:

**Driver checks system logs:** This scenario depicts a driver (or user) checking the system logs for troubleshooting or monitoring purposes.

Gherkin language

Scenario: Driver checks system logs

**Given** the driver is logged into the system

**When** the driver runs the command "cat /var/log/syslog"

**Then** the driver should see the system logs displayed in the term

User story

**As a** driver

**I want to** view the system logs

**So that** I can monitor and diagnose system issues

## Usage of a computer running the Linux operating system - 6

### Explanation of Scenario:

**User changes their password:** This scenario describes the process for a user to change their password securely.

Gherkin language

```
Scenario: User changes their password
  Given the user is logged into their account
  When the user runs the command "passwd"
  And the user enters their current password
  And the user enters a new password
  Then the user's password should be updated successfully
  And the user should see a confirmation message
```

User story

```
As a user
I want to change my account password
So that I can maintain the security of my account
```