

User Manual:

How to Run the Application:

1. Ensure you have the .NET SDK installed on device.
2. Download the project repository from .
3. Open code folder in your IDE.
4. Run the application.

Output:

```
PS C:\Users\hanna\Downloads\SCHOOL\SOFTWARE DEVELOPMENT\SEMESTER1\FORMATIVES\VirtualZooManagementSystem> dotnet run
*****
*           Welcome to the Virtual Zoo           *
*           Management System!                   *
*-----*
* 1. Add an animal                               *
* 2. Feed animals                                *
* 3. Move animals                                *
* 4. Make animals speak                         *
* 5. Display all animal information               *
* 6. Weather Change                             *
* 7. Exit                                         *
* 8. Diet Information                           *
* Select an option:                             *
*****
1
*****
*           Add Animal to Zoo                     *
*-----*
* 1. Lion                                         *
* 2. Zebra                                        *
* 3. Giraffe                                     *
* 4. Hippo                                       *
* 5. Lemur                                       *
* 6. Penguin                                    *
* 7. Back                                        *
*-----*
* Select an option to add animal to the zoo:    *
*****
5
Enter the name of the animal: Clover
Enter the age of the animal: 5
Added Clover to the zoo!
```

```

*****
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* 1. Add an animal                               *
* 2. Feed animals                               *
* 3. Move animals                               *
* 4. Make animals speak                       *
* 5. Display all animal information             *
* 6. Weather Change                           *
* 7. Exit                                     *
* 8. Diet Information                         *
* Select an option:                           *
*****
2
Enter the type of food options = Meat, Grass, Fish, Fruits, Plants: Fruits
The lion named Alex does not eat Fruits.
The zebra named Marty does not eat Fruits.
The giraffe named Melman does not eat Fruits.
The hippo named Gloria does not eat Fruits.
The lemur named King Julian is eating Fruits.
The lemur named Maurice is eating Fruits.
The lemur named Mort is eating Fruits.
The penguin named Skipper does not eat Fruits.
The penguin named Kowalski does not eat Fruits.
The penguin named Rico does not eat Fruits.
The penguin named Private does not eat Fruits.
The lemur named Clover is eating Fruits.

```

```

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*-----*
* 1. Add an animal                               *
* 2. Feed animals                               *
* 3. Move animals                               *
* 4. Make animals speak                       *
* 5. Display all animal information             *
* 6. Weather Change                           *
* 7. Exit                                     *
* 8. Diet Information                         *
* Select an option:                           *
*****
3
Alex the lion performs for the audience.
Marty the zebra crazily runs around.
Melman the giraffe hides anxiously.
Gloria the hippo plays in the water.
King Julian the lemur dances to 'I Like To Move It'..
Maurice the lemur dances to 'I Like To Move It'..
Mort the lemur dances to 'I Like To Move It'..
Skipper the penguin smiles and waves at the crowd.
Kowalski the penguin smiles and waves at the crowd.
Rico the penguin smiles and waves at the crowd.
Private the penguin smiles and waves at the crowd.
Clover the lemur dances to 'I Like To Move It'..
Press Enter to continue...

```

* Welcome to the Virtual Zoo *
* Management System! *

- * 1. Add an animal *
- * 2. Feed animals *
- * 3. Move animals *
- * 4. Make animals speak *
- * 5. Display all animal information *
- * 6. Weather Change *
- * 7. Exit *
- * 8. Diet Information *
- * Select an option: *

4

Alex the lion roars loudly.
Marty the zebra sings a circus song in a neighing sound.
Melman the giraffe cries out loud anxiously.
Gloria the hippo grunts softly.
King Julian the lemur makes loud noises.
Maurice the lemur makes loud noises.
Mort the lemur makes loud noises.
Skipper the penguin makes cute honking sounds.
Kowalski the penguin makes cute honking sounds.
Rico the penguin makes cute honking sounds.
Private the penguin makes cute honking sounds.
Clover the lemur makes loud noises.
Press Enter to continue...

- * Welcome to the Virtual Zoo *
* Management System! *

- * 1. Add an animal *
 - * 2. Feed animals *
 - * 3. Move animals *
 - * 4. Make animals speak *
 - * 5. Display all animal information *
 - * 6. Weather Change *
 - * 7. Exit *
 - * 8. Diet Information *
 - * Select an option: *

5
Name: Alex | Age: 3 | Animal Type: Mammal | Habitat Type: Savanna | Food Type: Fruits | Dietary Requirements: High protein diet | Feeding Schedule: Twice a day
Name: Marty | Age: 3 | Animal Type: Mammal | Habitat Type: Savanna | Food Type: Fruits | Dietary Requirements: High fiber diet | Feeding Schedule: Several times a day
Name: Melman | Age: 4 | Animal Type: Mammal | Habitat Type: Savanna | Food Type: Fruits | Dietary Requirements: Leafy greens | Feeding Schedule: Daily
Name: Gloria | Age: 5 | Animal Type: Mammal | Habitat Type: Aquatic | Food Type: Fruits | Dietary Requirements: Aquatic plants | Feeding Schedule: Regularly
Name: King Julian | Age: 4 | Animal Type: Mammal | Habitat Type: Madagascar | Food Type: Fruits | Dietary Requirements: Fruits and insects | Feeding Schedule: Multiple times a day
Name: Maurice | Age: 3 | Animal Type: Mammal | Habitat Type: Madagascar | Food Type: Fruits | Dietary Requirements: Fruits and insects | Feeding Schedule: Multiple times a day
Name: Mort | Age: 2 | Animal Type: Mammal | Habitat Type: Madagascar | Food Type: Fruits | Dietary Requirements: Fruits and insects | Feeding Schedule: Multiple times a day
Name: Skipper | Age: 6 | Animal Type: Bird | Habitat Type: Antarctic | Food Type: Fruits | Dietary Requirements: Fish | Feeding Schedule: Regularly
Name: Kowalski | Age: 5 | Animal Type: Bird | Habitat Type: Antarctic | Food Type: Fruits | Dietary Requirements: Fish | Feeding Schedule: Regularly
Name: Rico | Age: 4 | Animal Type: Bird | Habitat Type: Antarctic | Food Type: Fruits | Dietary Requirements: Fish | Feeding Schedule: Regularly
Name: Private | Age: 3 | Animal Type: Bird | Habitat Type: Antarctic | Food Type: Fruits | Dietary Requirements: Fish | Feeding Schedule: Regularly
Name: Clover | Age: 5 | Animal Type: Mammal | Habitat Type: Madagascar | Food Type: Fruits | Dietary Requirements: Fruits and insects | Feeding Schedule: Multiple times a day

```
*           Welcome to the Virtual Zoo           *
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* 1. Add an animal                               *
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* 3. Move animals                                *
* 4. Make animals speak                         *
* 5. Display all animal information               *
* 6. Weather Change                             *
* 7. Exit                                         *
* 8. Diet Information                           *
* Select an option:                             *
```

```
6
Weather changes: Rainy day!
Alex seeks shelter from the rain.
Marty seeks shelter from the rain.
Melman seeks shelter from the rain.
Gloria enjoys the rain.
King Julian enjoys the rain.
Maurice enjoys the rain.
Mort enjoys the rain.
Skipper enjoys the rain.
Kowalski enjoys the rain.
Rico enjoys the rain.
Private enjoys the rain.
Clover enjoys the rain.
```

```
*           Welcome to the Virtual Zoo           *
*           Management System!                   *
*-----*
* 1. Add an animal                               *
* 2. Feed animals                                *
* 3. Move animals                                *
* 4. Make animals speak                         *
* 5. Display all animal information               *
* 6. Weather Change                             *
* 7. Exit                                         *
* 8. Diet Information                           *
* Select an option:                             *
```

```

*****
8
*****
*                               *
*       Diet Information Menu   *
* -----*
* 1. Lion                      *
* 2. Zebra                    *
* 3. Giraffe                  *
* 4. Hippo                    *
* 5. Lemur                    *
* 6. Penguin                  *
* 7. Exit                     *
* -----*
* Select an option to view diet information: *
*****

5
Lemur diet: Fruits and insects. Feeding schedule: Multiple times a day.
*****
*                               *
*       Welcome to the Virtual Zoo   *
*       Management System!           *
* -----*
* 1. Add an animal                *
* 2. Feed animals                  *
* 3. Move animals                  *
* 4. Make animals speak          *
* 5. Display all animal information *
* 6. Weather Change               *
* 7. Exit                         *
* 8. Diet Information             *
* Select an option:                *
*****

7
Exiting the program. Goodbye!

```