1-6 Milestone: Pseudocode and Flowchart

Shenika Eayrs

IT-145-J4205 Found in App Development 23EW4

Ahlam Alhweiti

**FlowChart**



**Pseudocode**

// The Problem:

//Automate Pet Boarding and Grooming Check-in

// Gather Pet details and Stay Duration from User

// Validate available spaces, assign pet a space ID and provide a tentative amount due

START

INPUT - confirm if booking for [newpet] or [returningpet]

**\*\*\*[returningpet]\*\*\***

INPUT - IF [Y] PROMPT User to confirm if there are changes to [Petprofile] (Y or N)

INPUT - IF [Y] update [Petprofile] and proceed

INPUT - IF [N] confirm the stay duration ( [getdaystay]) and proceed

SEARCH – search available space repository GET [availablespaces] for [PetType] i.e catspaces() or dogspaces()

OUTPUT IF [availablespaces] for [PetType]= 0 advise User and END Program

IF [availablespaces] for [PetType]= >= 1 proceed

INPUT - IF [PetType] = dog AND [daystay] > 2 PROMPT User to confirm the need for grooming

Save INPUT to [PetProfile] boarding stay details

ASSIGN pet a [SpaceID]

UPDATE [availablespaces]

CALCULATE amount that may be due at checkout

OUTPUT - PRINT [SpaceID] and tentative [AmountDue]

SAVE Booking to [PetProfile]

**\*\*\*[newpet]\*\*\***

INPUT - PROMPT User to confirm Pet Details

CREATE [PetProfile] using the [PetType], [PetName], [PetAge] User defined

INPUT - confirm the stay duration ( [getdaystay])

SEARCH – search available space repository GET [availablespaces] for [PetType] i.e catspaces() or dogspaces()

OUTPUT IF [availablespaces] for [PetType]= 0 advise User and END Program

IF [availablespaces] for [PetType]= >= 1 proceed

INPUT - IF [PetType] = dog AND [daystay] > 2 PROMPT User to confirm the need for grooming

Save INPUT to [PetProfile] boarding stay details

ASSIGN pet a [SpaceID]

UPDATE [availablespaces]

CALCULATE amount that may be due at checkout

OUTPUT- PRINT [SpaceID] and tentative [AmountDue]

SAVE Booking to [PetProfile]

END

**Detailed Pseudocode**

START

INPUT confirm if booking for [newpet] or [returningpet]

**// (Scanner scnr = new Scanner(System.in); System.out.println (“Is your Pet is a returning visitor? Y or N?”)**

**\*\*\*[returningpet]\*\*\***

INPUT IF [Y] PROMPT User to confirm changes to [Petprofile]

**// (Scanner scnr = new Scanner(System.in); System.out.println (“Would you like to update your pet information Y or N?”)**

INPUT IF [Y] update [Petprofile] and proceed

INPUT IF [N] [getdaystay] and proceed

// **(Scanner scnr = new Scanner(System.in); System.out.println (“How many days will your pet be boarding with us”)**

GET [availablespaces] = catspaces() or dogspaces()

**// Select [spacenumber], sum[catspaces], sum [dogspaces] from [availablespaces] groupby [PetType]**

OUTPUT IF [availablespaces] for [PetType]= 0 advise User and END Program

**//System.out.println("There are no spaces available for the defined period ")**

IF [availablespaces] for [PetType]= >= 1 proceed

INPUT IF [PetType] = dog AND [daystay] > 2 PROMPT User to confirm the need for grooming

// **System.out.println("Will [PetName] need grooming services, Y or N?")**

Save INPUT to [PetProfile]

ASSIGN [SpaceID]

UPDATE [availablespaces]

CALCULATE amount that may be due at checkout

**// AmountDue = ([dailyboardingfee] + [groomingfee]) \* totaldaystay**

OUTPUT PRINT [SpaceID] and tentative [AmountDue]

// **System.out.println(" Your Pet’s Booking ID is “ + [SpaceID]+ “ and your tentative amount due is “ + [AmountDue]**

SAVE Booking to [PetProfile]

**\*\*\*[newpet]\*\*\***

INPUT PROMPT User to confirm Pet Details

//**// (Scanner scnr = new Scanner(System.in); System.out.println (“Please confirm your Pet type, Name, Age)**

CREATE [PetProfile] using the [PetType], [PetName], [PetAge] User defined

INPUT [getdaystay]

// **(Scanner scnr = new Scanner(System.in); System.out.println (“How many days will your pet be boarding with us”)**

GET [availablespaces] = catspaces() or dogspaces()

**// Select [spacenumber], sum[catspaces], sum [dogspaces] from [availablespaces] groupby [PetType]**

OUTPUT IF [availablespaces]= 0 advise User and END Program

**//System.out.println("There are no spaces available for the defined period ")**

IF [availablespaces] for [PetType]= >= 1 proceed

INPUT IF [PetType] = dog AND [daystay] > 2 PROMPT User to confirm the need for grooming

// **System.out.println("Will [PetName] need grooming services, Y or N?")**

Save INPUT to [PetProfile]

ASSIGN [SpaceID]

UPDATE [availablespaces]

CALCULATE amount that may be due at checkout

**// AmountDue = ([dailyboardingfee] + [groomingfee]) \* totaldaystay**

OUTPUT PRINT [SpaceID] and tentative [AmountDue]

// **System.out.println(" Your Pet’s Booking ID is “ + [SpaceID]+ “ and your tentative amount due is “ + [AmountDue]**

SAVE Booking to [PetProfile]

END