1. **identification of the problema**

It is necessary to develop software for the veterinary that allows to show the functionalities required by the veterinarian "My Little Pet", and also allows to know the data of each pet, of each client, the prescription drugs and the mini rooms, and the functionalities of the type of service.

1. **Functional requirements**

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| Name: | R1 Calculate body mass |
| Summary: | The system allows to calculate the body mass of pets |
| Input: | None |
| Exit: | Displays the index of the body mass of the pet |

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| Name: | R2 Update customer information with your address and phone |
| Summary: | The system allows to update the user's information according to their information |
| Input: | • User identification  • The user's address  • The user's phone |
| Exit: | The user information is updated |

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| Name: | R3 Add medicines to hospitalized pets |
| Summary: | The system allows to add medicines to hospitalized pets |
| Input: | • User identification  • The name of the pet  • The name of the medicine  • The dose of the medicine  • The cost of the medication  • The frequency of the medication |
| Exit: | The medicine is added to the hospitalized animal |

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| Name: | R4 Add notes to hospitalized pets |
| Summary: | The system allows to add notes to pets that are hospitalized |
| Input: | • User identification  • The name of the pet  •The notes |
| Exit: | The notes were added to the pets hospitalized in the rooms |

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| Name: | R5 Add new symptoms to hospitalized pets |
| Summary: | The system allows to add a symptom to the hospitalized pet in the mini-room |
| Input: | • User identification  • The name of the pet  • The symptom of the pet |
| Exit: | The symptom of the hospitalized pet was added |

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| Name: | R6 Calculate income from services |
| Summary: | The system allows to to calculate the income of the services |
| Input: | Any |
| Exit: | Shows the income of each service |

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| Name: | R7 Calculate the total income of the services |
| Summary: | The system allows to calculate the total income of the services |
| Input: | Any |
| Exit: | The total income of all services is calculated |

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| Name: | R8 Add to the system new services provided by the veterinarian, that is, the services sold, not new types of services. |
| Summary: | The system allows to add services sold to the system to the system |
| Input: | • The type of service  • The pet |
| Exit: | The services sold are added to the system |

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| Name: | R9 Average income from services. |
| Summary: | The system allows you to calculate the average of all services |
| Input: | Any |
| Exit: | The average of all services is calculated |

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| Name: | R10 Average income of the veterinarian in one week. |
| Summary: | The system allows to calculate the income in the veterinary one week |
| Input: | • The current day  • The current month |
| Exit: | Revenue is calculated for a week |

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| Name: | R11 Report of services rendered given an initial date and a final date. |
| Summary: | The system allows to give a report of the dates within those weeks |
| Input: | • Initial date  • Final date |
| Exit: | Show the information that is within that week |

1. **Traceability Analysis**

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| **RF** | **Code** | |
| **Class** | **method** |
| Calculate body mass | Pet | + calculateIBMOfAnimal() |
| Update customer information with your address and phone | Veterinary | + actualizePhoneAndAddressOfCLient(long,String,String) |
| Add medicines to hospitalized pets | Veterinary,Room,Pet | +addMediceToHospitalization(long String,String,double,double,int):String  +addMedicamentsToPet(String,double, double,int):String  + addPetToHistoryCLinical(String,double,double,int) |
| Add notes to hospitalized pets | Veterinary,Room,Pet | +addNotesToPet(String): void  +addNotesToHospitalization(long,String String):void  +addNotesToHospitalizationFatality(String): void |
| Add new symptoms to hospitalized pets | Veterinary,Room,Pet | +addNotesToSympTom(String):void  +addNewSymptom(long,String,String):void  +addNewSymptomHistory(String):void |
| Calculate service income | Veterinary | +calculatedService1():double  +calculatedService2():double  +calculatedService3():double  +calculatedService4():double  +calculatedService5():double |
| Calculate the total income of the services | Veterinary | +calculatedCostTotalForTheService():double |
| Add to the system new services provided by the veterinary, that is, the services sold, not new types of services.. | Veterinary, typeOfService | + addServiceWithPet(typeOfService,Pet):void |
| Average income for services. | Veterinary | +promediateCostOfServices():double |
| Average income of the veterinarian in a week. | Veterinary | +calculatedCostForOneWeek(int,int,int) : double |
| Report of services rendered given an initial date and a final date. | Veterinary | +getReportedAboutAnimalWithInicialDate AndFinalDate(String, String):String |