

Design Document for project on "Dictionary of IIT Mandi birds and animals"
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13th November 2016

1 The computational problem

1.1 Problem statement:

The user specifies the serial no. (rank) / letter / name of any species (bird / animal) from the Dictionary of IIT Mandi birds and animals. The program must contain the names and description of local birds and animals of IIT Mandi and nearby areas and print the same.

2 Our Solution

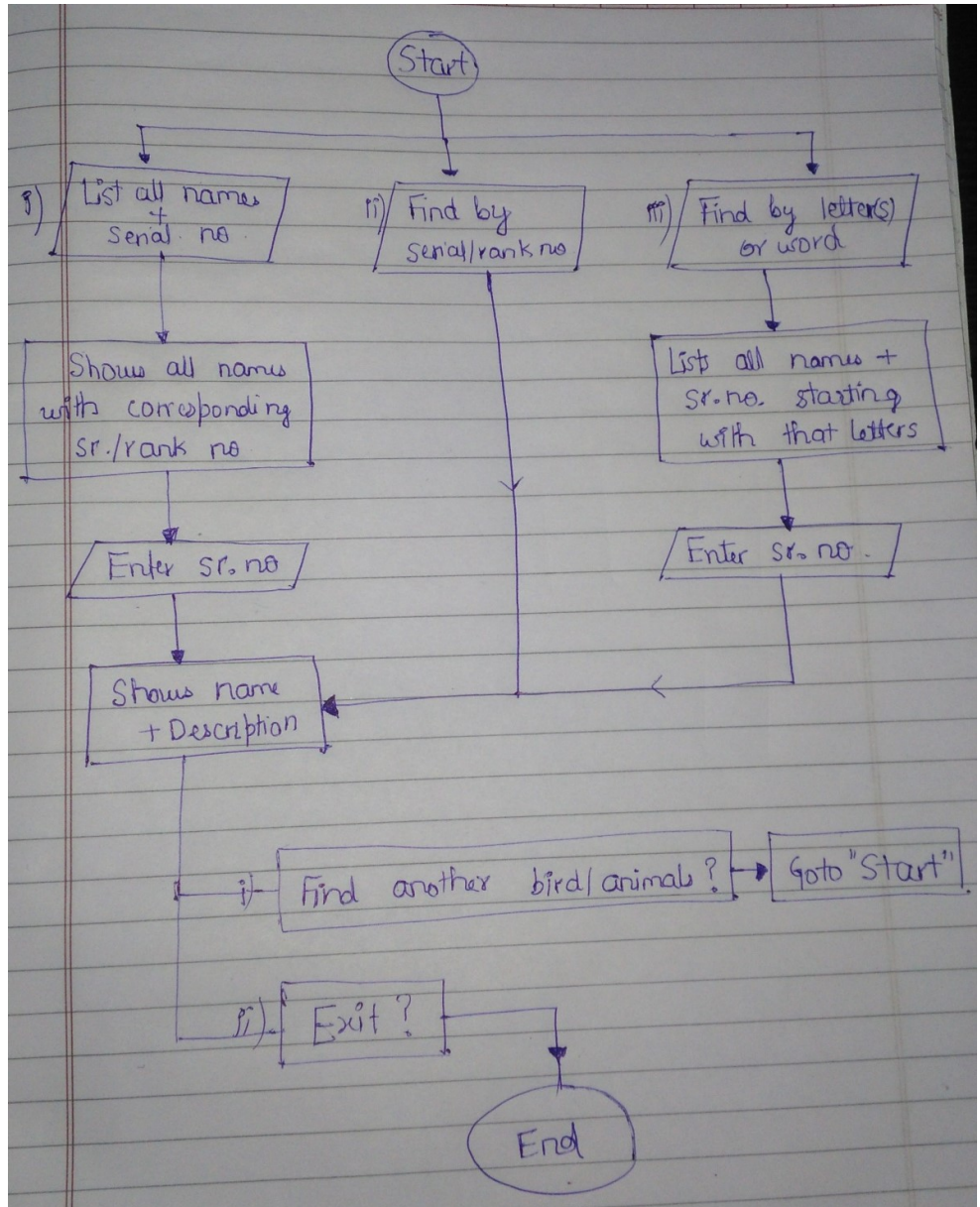
ExceptionalHandling:

- i. Shows error message on typing invalid integer or character input: typing integer in place of character or vice-versa, entering name of species which is not present in the dictionary.
- ii. Asks the user again for the correct input for any incorrect input.

The program will be user friendly, in the sense of proper exceptional handling and the alignment of texts.

Data:

```
struct dict{  
    int sr_no[];  
    char name[][];  
    char *desc[];  
}Dictionary;
```



Components

f1 int optionInput()
-displaying options and taking input at the starting of the program

f2 void printDescriptionSrNo(int sr_no)
-printing the name of the bird/animal chosen by the user and its description

f3 void findByLetter(char search[])
-printing the names of the species by comparing the starting letters/word given by the user.

f4 void openReadMeTXT()
-showing the readme.txt in terminal

f5 void exitProgram()
-exiting the program in a nice fashion

f6 int main()

f7 readme.txt

f8 dictionary_bird_animals.txt

void showAllList()

void showCategory()

void printDescriptionName(char name[])

Responsibilities and Timeline

Responsibilities:

- i. Tirupati Mishra: **f2,f8**
- ii. Vishal Anand: **f3,f6,f8**
- iii. Yash Agrawal : **f3,f5,f8**
- iv. Vedant Agrawal: **f1,f4,f8**
- v. Parimal Kumar : **f7,f8**

Timeline:

- i. Milestone1: f5 to be ready by 15/11/2016
- ii. Milestone2: f1,f4,f7 to be ready by 19/11/2016
- iii. Milestone3: f2 to be ready by 21/11/2016
- iv. Milestone4: f3,f6,f8 to be ready by 24/11/2016

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