



SMART INDIA HACKATHON 2022



MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

National e-Vidyalaya Portal (NeVA)

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Problem Statement

“There are 15 lakhs schools in India, plus District/block/cluster level centers, regional offices of the Central Government, etc. Both Central and State Governments need to manage their assets Details of building such as type, size, area, year of construction, capacity, rooms, labs, maintenance required, etc. should be available along with GIS mapping of location, the present use of a building, etc. An App-based solution is required.”

INTRODUCTION :

We are designing an app consisting of two responsive ends. Firstly, A school administration end where a school can fill up all their details including available facilities, year of establishment, staff available, etc. Secondly, Government end where a government official can search different registered schools using different sorting tools such as, by State, District, etc. A school can also request a particular facility or required maintenance in just one click.

System Analysis

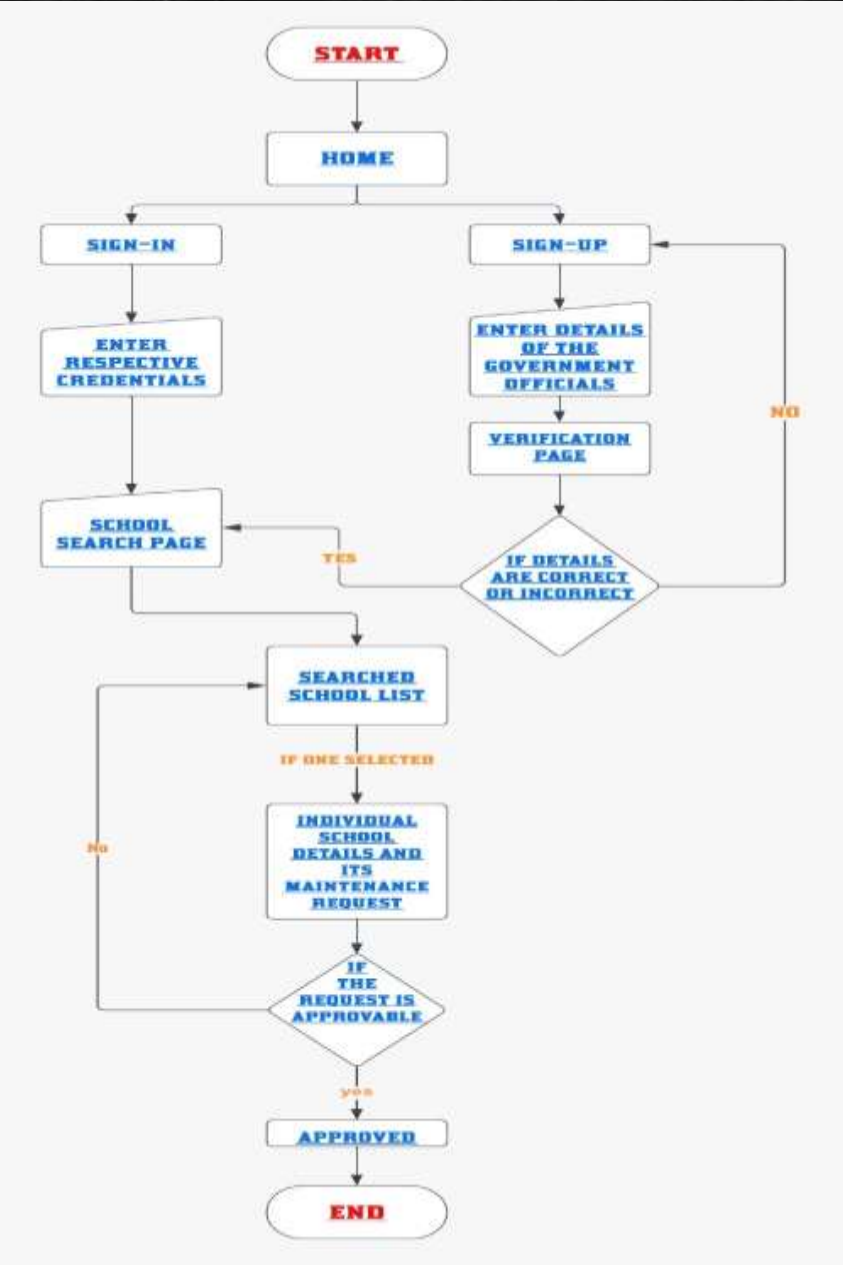
System Objectives

The main objective of our application is to create a link between all the schools and Government officials where schools can raise different problem faced by them. So government can send an effective solution swiftly. And government can search registered schools by states, districts and using different facility filters like, Computer Labs, Toilets, no. of rooms, etc .

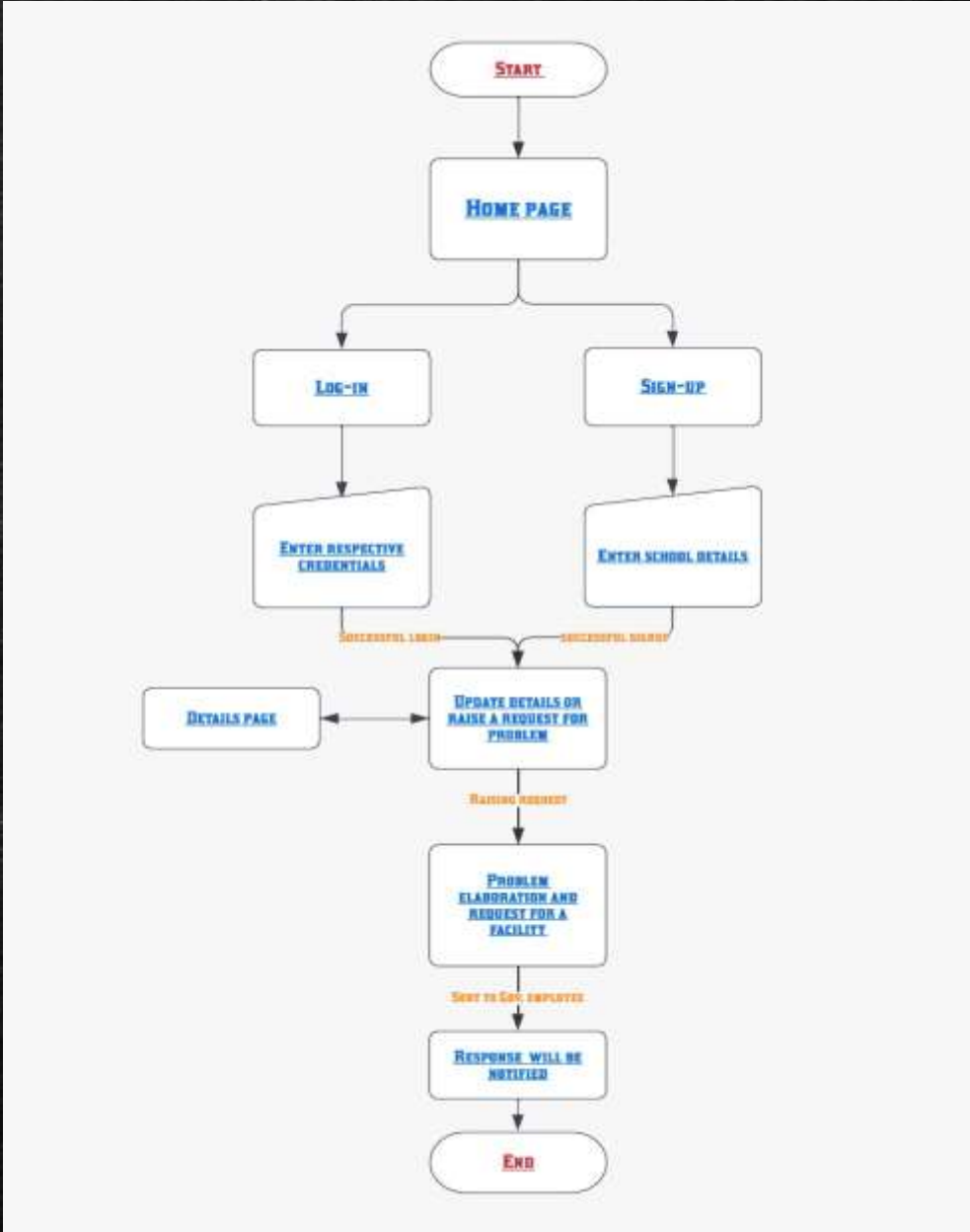
System Architecture

For front end, Tkinter, Time, PIL and other packages have been used and for back end python has been used.

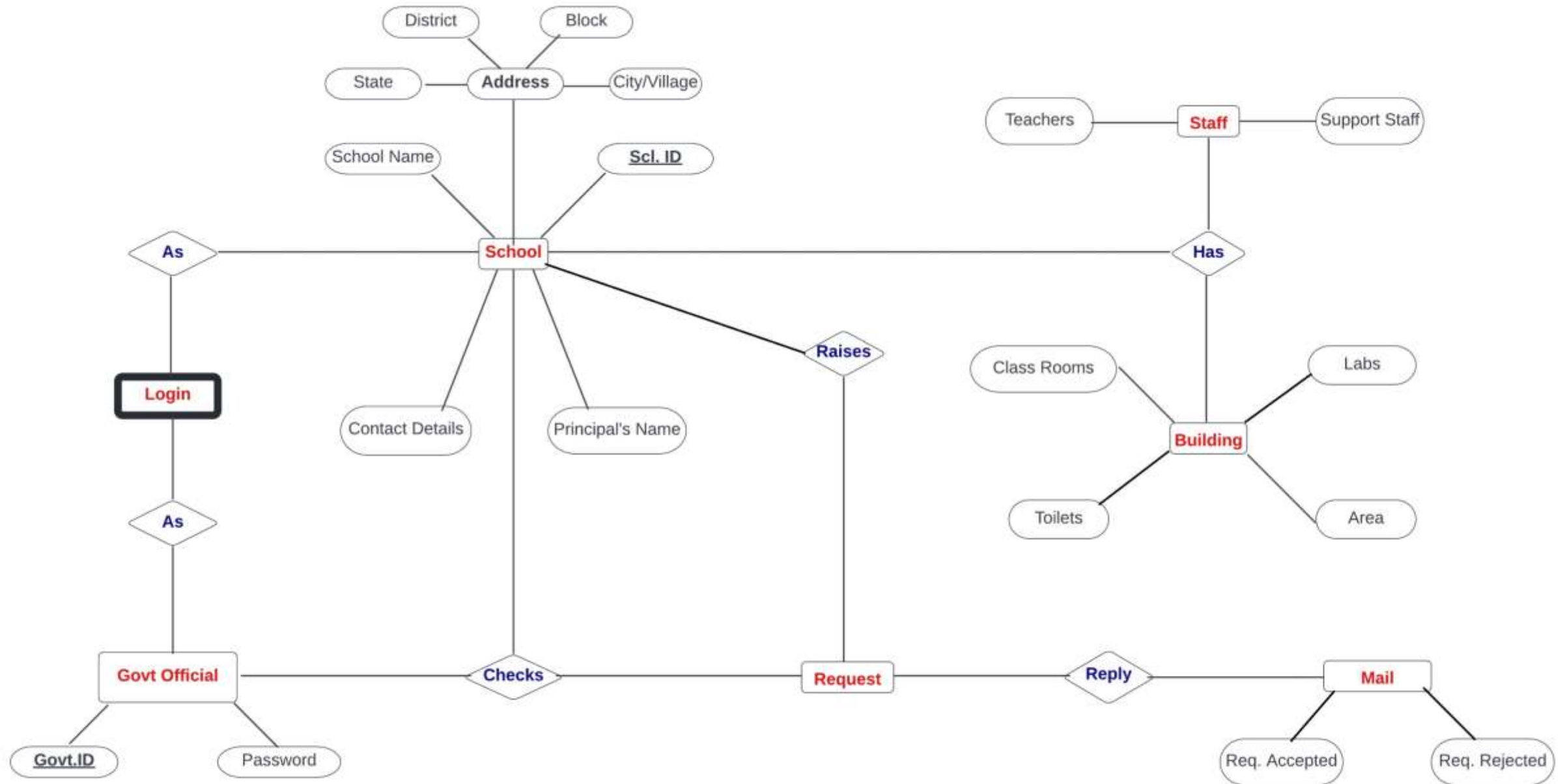
Government End Flow Chart



School Administration End Flow Chart



E-R DIAGRAM



Code Snippets

```
root=Tk()
root.title("SMART INDIA HACKATHON")
root.geometry("1350x800")
root.minsize(1350,800)
root.iconbitmap("q.ico.ico")
img=Image.open("JA0.jpg")
img=img.resize((1370,800))
photo=ImageTk.PhotoImage(img)
canvas=Canvas(root,width=1400,height=700)
canvas.create_image(0,0,image=photo,anchor="nw")
canvas.pack()
Label(root,text="USERNAME",bg="white",fg="blue",font="courier 30 bold",relief=RAISED).place(x=420,y=270)
Label(root,text="PASSWORD",bg="white",fg="blue",font="courier 30 bold",relief=RAISED).place(x=420,y=360)
Button(root,text="<<BACK",command=func,font="comicsansms 10 bold").place(x=5,y=650)
strr=StringVar()
strr2=StringVar()
e1=Entry(root,textvariable=strr,font="courier 30 bold",fg="red")
e1.place(x=640,y=273)
e1.focus_force()
```

```
main.py x FIRST PAGE.py x SECOND PAGE.py x THIRD PAGE.py x FOURTH PAGE.py x
1 from tkinter import *
2 from PIL import Image,ImageTk
3 def time():
4     from time import strftime
5     string = strftime('%H:%M:%S %p')
6     lbl.config(text=string)
7     lbl.after(1000, time)
8 def date():
9     from datetime import datetime
10    now = datetime.now()
11    timestamp = datetime.timestamp(now)
12    date_time = datetime.fromtimestamp(timestamp)
13    d = date_time.strftime("%d %B, %Y")
14    lbl2.config(text=d.upper())
15 def func():
16    pass
```

```
main.py x FIRST PAGE.py x SECOND PAGE.py x THIRD PAGE.py x FOURTH PAGE.py x FIFTH PAGE.py x SIXTH PAGE.py x
16 pass
17 root=Tk()
18 root.title("SMART INDIA HACKATHON")
19 root.geometry("1350x800")
20 root.minsize(1350,800)
21 root.iconbitmap("q.ico.ico")
22 img=Image.open("maxx2.jpeg")
23 img=img.resize((1370,700))
24 photo=ImageTk.PhotoImage(img)
25 canvas=Canvas(root,width=1400,height=700)
26 canvas.create_image(0,0,image=photo,anchor="nw")
27 canvas.pack()
28 Button(root,text="ENTER Ne-VA PORTAL ",command=func,fg="blue",font="default 20 bold",activebackground="orange",activeforeground="black",
29 lbl2 = Label(root, font=('calibri', 25, 'bold'),foreground='black',background="white")
30 lbl2.place(x=1100,y=550)
31 date()
32 lbl = Label(root, font=('calibri', 10, 'bold'),background='white',foreground='black')
33 lbl.place(x=1190,y=590)
34 time()
35 root.mainloop()
```


Output Snippets

SMART INDIA HACKATHON



**NATIONAL
E-VIDYALAYA
PORTAL**

As the Nation celebrates



ENTER Ne-VA PORTAL

27 MARCH, 2022

22:50:32 PM

Activate Windows

Go to PC settings to activate Windows.



SMART INDIA HACKATHON

SCHOOL DETAIL FORM

SCHOOL NAME

SCHOOL UNIQUE ID

PRINCIPLE NAME

SCHOOL ADDRESS STATE DISTRICT BLOCK

MAIL ID

TYPE OF SCHOOL

YEAR OF ESTABLISHMENT

NEXT

Activate Windows
Go to PC settings to activate Windows.

<<BACK



Problems Solved From Our Model

❑ Maintenance of Government Schools

In our model, the government entity can be notified swiftly about the problems faced by a particular school and an effective solution will be provided to them as soon as possible.

❑ Ease to Government to implement various Missions Like,

➤ Rashtriya Madhyamik Shiksha Abhiyan (RMSA)

Its objective is to enhance access to secondary education and to improve its other objectives including improving the quality of education imparted at the secondary level through making all secondary schools conform to prescribed norms, removing gender, socio-economic and disability barriers.

➤ **Sarva Siksha Abhiyan**

The SSA program's purpose is Universal Elementary Education (UEE) with adequate facilities for eight years of elementary schooling of satisfactory quality and provision of alternative schooling facilities in unserved habitations.

➤ **PM Poshan (Mid Day Meal**

PM POSHAN (Poshan Shakti Nirman) Scheme is for providing one hot cooked meal in Government and Government-aided schools. This is a Centrally-Sponsored Scheme which covers all school children studying in Classes I-VIII in Government, Government-Aided Schools.

➤ **Swachh Bharat Abhiyan**

Government can check the Availability of Toilets and sanitization in schools and promote more cleanliness in schools.

➤ **Khelo India Games Initiative**

With all the details of schools, the government can decide which schools are capable of hosting Khelo India Games at the nodal level.

➤ **Pradhan Mantri Kaushal Kendra**

All the schools are closed during Summer vacations so, the school buildings can be used for Kaushal Kendra.

➤ **Different Schemes for Students**

With All the details of the students, the government can implement different schemes like CM Muft Cycle Yojna, Free Textbook distribution, etc.

Future Goals

- We can add one **student end**, where a student can search nearby schools with the use of “**GIS Location**” and he/she can also check various facility accordingly.
- We can also add “**Data Analytics**” and “**Data Visualization**” part in the government end which will help them understand the problem and a more effective solution can be provided to schools.
- We can add a “**Discover section**” where newly launched schemes for students can be displayed and requirements to avail that particular scheme.

THANK YOU !