**1 : Folders**

Client

Server

**2: Server Side**

1. **Settings.py**

ALLOWED\_HOSTS = ["\*"]

INSTALLED\_APPS = [

'django.contrib.admin',

'django.contrib.auth',

'django.contrib.contenttypes',

'django.contrib.sessions',

'django.contrib.messages',

'django.contrib.staticfiles',

'brfapp',

'rest\_framework',

]

1. **Urls.py**

from django.contrib import admin

from django.urls import path, include

urlpatterns = [

path('admin/', admin.site.urls),

path('', include('brfapp.urls')),

]

1. **App Urls.py**

from django.urls import path

from .views import BusRouteList

urlpatterns = [

path('', BusRouteList.as\_view(), name='bus\_route\_list'),

]

1. **Serializers.py**

from rest\_framework import serializers

from .models import BusRoute

class BusRouteSerializer(serializers.ModelSerializer):

class Meta:

model = BusRoute

fields = ['route\_number', 'destination']

1. **Views.py**

from rest\_framework import generics

from .models import BusRoute

from .serializers import BusRouteSerializer

class BusRouteList(generics.ListCreateAPIView):

queryset = BusRoute.objects.all()

serializer\_class = BusRouteSerializer

**3. Client Side**

a. brf.py

from requests import \*

from tkinter import \*

from tkinter.messagebox import\*

root = Tk()

root.title("Bus Route Finder Application")

root.geometry("700x500+330+50")

root.configure(bg = "lightblue")

f = ("Arial", 20 , "bold")

def check():

try:

w = int(ent\_in.get())

if w<0:

showerror("Issue","Enter Postive number")

return

except Exception as e:

showerror("Issue",e)

wa = "http://127.0.0.1:8000/"

res = get(wa)

data = res.json()

route\_number = ent\_in.get()

destination = next(("Destination : " +item["destination"] for item in data if item["route\_number"] == route\_number), "Not Found")

lab\_ans.configure(text =destination)

label\_in = Label(root , text = "Enter Bus Route No : " ,bg="lightblue", font = f )

label\_in.pack(pady = 10)

ent\_in = Entry(root, font = f ,)

ent\_in.pack(pady = 10)

btn = Button(root , text = "Check" ,font = f , command = check)

btn.pack(pady = 10)

lab\_ans = Label(root , text = "",bg="lightblue", font = f )

lab\_ans.pack(pady = 10)

label\_in = Label(root , text = "Siddhesh Jadhav 05540224 " ,bg="lightblue", font = f )

label\_in.pack(pady = 100)

root.mainloop()