

WEB SERVICES - RECORD FARM AID

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OBJECTIVE:

A Web Portal which acts as an assistant for farmers where they can draw their farms on a satellite-street map and enter logs, schedule tasks for the corresponding farm.

Weather forecast for 7 days will also be available for the Farm.

SCOPE:

1. Draw Farm

- Users can draw a farm on a satellite-street map
- The farm must be within 8 km square in area
- The farm must be a non intersecting polygon

2. Weather Forecast

A 7 day weather forecast is available for a given farm, so farmers can prepare for unforeseen weather conditions

3. Create Logs

- A log can be created for a particular farm
- In the log the farmer can mention what he did like adding irrigation, pesticide, fertilizer and his/her own comments can be added

4. Schedule Tasks

- Tasks can be scheduled for a particular farm

- A priority can be set for the same
- Users are reminded of pending tasks

5. User Authentication

- Users can register using their mobile number after verifying the OTP sent to them
- Users can login with their registered Mobile Number after successful registration.

SOURCE CODE:

Python Code (Backend And API):

app.py

```
import flask
from flask import request, jsonify
from flask_cors import CORS, cross_origin
from api_db import add_farm, fetch_farms, single_farm, fetch_details,
enter_task, get_task, delete_task
from authentication_api import new_user, verify_otp, login
from farm_entry import new_entry, previous_entry, widget_info
import json
import requests
import datetime

app = flask.Flask(__name__, template_folder='template')
app.config["DEBUG"] = True
cors = CORS(app)
app.config['CORS_HEADERS'] = 'Content-Type'

#API homepage

@app.route('/', methods=['GET'])
def home():
    return "<h1>API homepage</h1>
<p>API for Farming</p>"

#To upload Polygon this method will be used
```

```
@app.route('/postjson', methods = ['POST'])
@cross_origin(origin='*',headers=['Content-Type','Authorization'])
def postJsonHandler():

    query_parameters = request.args
    key = query_parameters.get('key')

    content = request.get_json()
    #print(type(content))
    #content = json.loads(content_str)
    name = content['name']
    print(name)

    rows = add_farm(content, key, content['cropname'],name)
    json_op = {"id":rows, "farm_name":name}
    return jsonify(json_op)

@app.route('/userfarms', methods = ['POST'])
@cross_origin(origin='*',headers=['Content-Type','Authorization'])
def user_farms():

    query_parameters = request.args
    key = query_parameters.get('key')

    return jsonify({"Active":fetch_farms(key)})

@app.route('/showfarm', methods = ['POST'])
@cross_origin(origin='*',headers=['Content-Type','Authorization'])
def show_farm():

    query_parameters = request.args
    farmid = query_parameters.get('farmid')

    geoj_str = single_farm(farmid)
```

```

#print(type(geoj_str))
geoj = json.loads(geoj_str)
return
jsonify({"coordinates":geoj['geo_json']['geometry']['coordinates'][0]})

@app.route('/name_crop', methods = ['POST'])
@cross_origin(origin='*',headers=['Content-Type','Authorization'])
def details():

    query_parameters = request.args
    key = query_parameters.get('farmid')

    return jsonify({"farmname":fetch_details(key)[0],
    "crop":fetch_details(key)[1]})

@app.route('/weather', methods = ['POST'])
@cross_origin(origin='*',headers=['Content-Type','Authorization'])
def weather_fun():

    query_parameters = request.args
    farmid = query_parameters.get('farmid')

    geoj_str = single_farm(farmid)
    #print(type(geoj_str))
    geoj = json.loads(geoj_str)
    lon = geoj['geo_json']['geometry']['coordinates'][0][0][0]
    lat = geoj['geo_json']['geometry']['coordinates'][0][0][1]

    url = ("https://api.openweathermap.org/data/2.5/onecall?lat=" + 
str(lat) + "&lon=" + str(lon) +
"&exclude=hourly,minutely&appid=bc7200ffb0d757c0c0b7daa8c61
ac7ce")

    r = requests.get(url = url)

```

```

data = r.json()
print(data['daily'][0]['temp'])

#res = {}
li = []
for i in data['daily']:
    sub = {}
    timestamp = datetime.datetime.fromtimestamp(i['dt'])
    sub['date'] = timestamp.strftime("%d-%m-%Y")
    sub['min'] = i['temp']['min']
    sub['max'] = i['temp']['max']
    sub['day'] = i['temp']['day']
    sub['desc'] = i['weather'][0]['description']
    li.append(sub)

return jsonify ({"result_weather":li})

@app.route('/newtask', methods = ['POST'])
@cross_origin(origin='*',headers=['Content-Type','Authorization'])
def new_task():

    query_parameters = request.args
    userid = query_parameters.get('userid')
    farmid = query_parameters.get('farmid')
    data = request.get_json()

    enter_task(userid, farmid, data['title'], data['seton'], data['about'],
    data['priority'])

    return jsonify({"Status":"Success"})

@app.route('/fetchtasks', methods = ['POST'])
@cross_origin(origin='*',headers=['Content-Type','Authorization'])
def fetch_tasks():

```

```

query_parameters = request.args
userid = query_parameters.get('userid')

tasks = get_task(userid)
date_today = datetime.date.today()
print(date_today)
pending = []
rem = []
#return jsonify({"Mess":"Ji"})
for i in tasks:
    date_time_obj = datetime.datetime.strptime(i[1],
'%Y-%m-%d').date()
    if date_time_obj < date_today:
        pending.append({"title":i[0], "seton":i[1], "desc":i[2], "tid":i[3],
"name":fetch_details(i[4])[0], "farmid":i[4], "priority":i[5]})
    else:
        rem.append({"title":i[0], "seton":i[1], "desc":i[2], "tid":i[3],
"name":fetch_details(i[4])[0], "farmid":i[4], "priority":i[5]})

return jsonify({"pending":pending, "remaining":rem})

@app.route('/deltask', methods = ['POST'])
@cross_origin(origin='*',headers=['Content-Type','Authorization'])
def del_task():

    query_parameters = request.args
    taskid = query_parameters.get('taskid')

    delete_task(taskid)

    return jsonify({"Status":"Success"})

@app.route("/new_user", methods=["POST", "GET"])
@cross_origin(origin="*", headers=["Content-Type", "Authorization"])
def create_new_user():

```

```
data = request.get_json()
return new_user(data)

@app.route("/verify_otp", methods=["POST", "GET"])
@cross_origin(origin="*", headers=["Content-Type", "Authorization"])
def verify_the_otp():
    data = request.get_json()
    return verify_otp(data)

@app.route("/login", methods=["POST", "GET"])
@cross_origin(origin="*", headers=["Content-Type", "Authorization"])
def logging_in():
    data = request.get_json()
    return login(data)

@app.route("/postentry", methods=["POST", "GET"])
@cross_origin(origin="*", headers=["Content-Type", "Authorization"])
def post_entry():
    data = request.get_json()
    return new_entry(data)

@app.route("/previousentry", methods=["POST", "GET"])
@cross_origin(origin="*", headers=["Content-Type", "Authorization"])
def previous_entries():
    data = request.get_json()
    return previous_entry(data)

@app.route("/widgets", methods=["POST", "GET"])
@cross_origin(origin="*", headers=["Content-Type", "Authorization"])
def widgets():
    data = request.get_json()
    return widget_info(data)
```

```
app.run(host='127.0.0.1', port = 5010)
```

api_db.py

```
import pymysql
import json

def add_farm(content, key, cropname, name):

    db = pymysql.connect(
        host='localhost',
        user='root',
        password = "1234",
        db='web_services',
    )
    print("database connected")
    cursor = db.cursor()

    get_user_det = "INSERT INTO polygonStore (polyinfo, clientID,
active, farm_name, crop) VALUES (%s, %s, %s, %s, %s);"
    cursor.execute(get_user_det, (json.dumps(content), key, 1, name,
cropname))
    db.commit()

    rowid = cursor.lastrowid
    cursor.execute('select * from polygonStore')
    #user_det = cursor.fetchall()

    print(rowid)
    db.close()
    return rowid

def fetch_farms(key):
```

```
db = pymysql.connect(  
    host='localhost',  
    user='root',  
    password = "1234",  
    db='web_services',  
)  
print("database connected")  
cursor = db.cursor()  
  
get_user_det = "SELECT id, farm_name FROM polygonStore  
WHERE clientID = %s"  
cursor.execute(get_user_det, (key))  
user_farms = cursor.fetchall()  
  
farm_li = []  
for i in user_farms:  
    det = {}  
    det['farmid'] = i[0]  
    det['farmname'] = i[1]  
    farm_li.append(det)  
#print(farm_li)  
  
return farm_li  
  
def single_farm(farmid):  
  
    db = pymysql.connect(  
        host='localhost',  
        user='root',  
        password = "1234",  
        db='web_services',  
    )  
    print("database connected")  
    cursor = db.cursor()
```

```
get_user_det = "SELECT polyinfo FROM polygonStore WHERE id = %s"
cursor.execute(get_user_det, (farmid))
user_farm = cursor.fetchall()
return user_farm[0][0]

def fetch_details(farmid):
    db = pymysql.connect(
        host='localhost',
        user='root',
        password = "1234",
        db='web_services',
    )
    cursor = db.cursor()

    get_farm_det = "SELECT farm_name, crop FROM polygonStore WHERE id = %s"
    cursor.execute(get_farm_det, (farmid))
    user_farm = cursor.fetchall()
    return list(user_farm[0])

def enter_task(userid, farmid, title, seton, about, priority):
    db = pymysql.connect(
        host='localhost',
        user='root',
        password = "1234",
        db='web_services',
    )
    cursor = db.cursor()

    qry = "INSERT INTO tasksSchedule (user_id, farmid, title, seton, about, priority) VALUES (%s, %s, %s, %s, %s, %s);"
```

```
cursor.execute(qry, (userid, farmid, title, seton, about, priority))
db.commit()

def get_task(userid):

    db = pymysql.connect(
        host='localhost',
        user='root',
        password = "1234",
        db='web_services',
    )
    cursor = db.cursor()

    qry = "SELECT title, seton, about, task_id, farmid, priority FROM
tasksSchedule WHERE user_id = %s"
    cursor.execute(qry, (userid))
    tasks = cursor.fetchall()
    li = []
    for i in tasks:
        li.append(list(i))
    #print(li)
    return li

def delete_task(taskid):

    db = pymysql.connect(
        host='localhost',
        user='root',
        password = "1234",
        db='web_services',
    )
    cursor = db.cursor()

    qry = "DELETE FROM tasksSchedule where task_id = %s"
    cursor.execute(qry, (taskid))
```

```

tasks = cursor.fetchall()

db.commit()

"""
content = {
"type": "FeatureCollection",
"name": "C01",
"crs": { "type": "name", "properties": { "name": "urn:ogc:def:crs:OGC:1.3:CRS84" } },
"features": [
{ "type": "Feature", "properties": { "Name": "Shivananjappa - Sorghum", "tessellate": -1, "extrude": 0, "visibility": -1, "fid": 1.0, "layer": "C01 C01.kml", "Area": 1.61095216425805 }, "geometry": {
"type": "Polygon", "coordinates": [ [ [ 76.8069496, 11.9317645, 0.0 ], [ 76.806971, 11.9316123, 0.0 ], [ 76.808111, 11.9315887, 0.0 ], [ 76.8081217, 11.9320532, 0.0 ], [ 76.8069013, 11.9320663, 0.0 ], [ 76.8069496, 11.9317645, 0.0 ] ] ] } }
]
}
"""

#print(add_farm(content, 0000))
#fetch_farms(0)
#single_farm(15)
print(get_task(202))

```

authentication.py

```

____import pymysql
import requests
import json
import smtplib,ssl
from email.mime.text import MIMEText
from email.mime.multipart import MIMEMultipart
import clx.xms

```

```
import random
import math
from flask import jsonify

otp = ""
mobile = ""
password = ""
username = ""

mydb = pymysql.connect(
    host="localhost",
    user="root",
    password="1234",
    database="web_services"
)

def new_user(data):
    output = otp_func()
    print(output["otp"])
    if(output["status"] == "success"):
        global otp,mobile,password,username
        otp = output["otp"]
        mobile = data["mobile"]
        password = data["password"]
        username = data["name"]
        output = {"status": "success"}
        return jsonify(output)
    else:
        return {"status" : "failure"}
```

```
def verify_otp(data):
    global otp
```

```
user_input = data["otp"]
if otp == user_input:
    print(otp,user_input)
    add_user_to_db()
    output = {"status": "success"}
    return jsonify(output)
else:
    print(otp,user_input)
    output = {"status": "failed"}
    return jsonify(output)

def add_user_to_db():

    global mobile, password,mydb
    mycursor = mydb.cursor()

    sql = "INSERT INTO user_details (mobile,name,password)
VALUES (%s, %s,%s)"
    val = (mobile,username,password)
    mycursor.execute(sql, val)

    mydb.commit()
    return

def login(data):

    global mydb
    mycursor = mydb.cursor()

    mycursor.execute("select user_key,name from user_details where
mobile = "+str(data["mobile"])+"" and password
="+str(data["password"])+"""")
    myresult = list(mycursor.fetchall())
```

```

if len(myresult) == 0:
    return({"status":"failed"})
else:
    user_info = myresult
    print(user_info[0])
    return({"status":"success","user_info":list(user_info[0])})

def otp_func():
    OTP = send_otp_mobile()
    print(OTP)
    return({"status":"success","otp" : OTP})

def generateOTP() :
    # Declare a string variable
    # which stores all string
    string =
'0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ
STUVWXYZ!@#$%^&*()+='
    OTP = ""

    length = len(string)
    for i in range(random.randint(5,10)) :
        OTP += string[math.floor(random.random() * length)]

    return OTP

def send_otp_mobile():
    client =
    clx.xms.Client(service_plan_id='7dbb615abf724082bfe34217efb937e
a', token='e81b7a0c92224ebaa30b2dc9d2de215b')
    create = clx.xms.api.MtBatchTextSmsCreate()
    create.sender = '447537404817'

```

```
create.recipients = {'918124198950'}
otp_text = generateOTP()
create.body = otp_text+ " is the OTP"

try:
    batch = client.create_batch(create)
except (requests.exceptions.RequestException,
        clx.xms.exceptions.ApiException) as ex:
    print('Failed to communicate with XMS: %s' % str(ex))

return otp_text
```

```
def email_confirmation(receiver_email, data):

    port = 465 # For SSL
    smtp_server = "smtp.gmail.com"
    sender_email = "rithishtemp@gmail.com" # Enter your address
    receiver_email = receiver_email
    message = MIME Multipart("alternative")
    message["Subject"] = "Registration Portal"
    message["From"] = sender_email
    message["To"] = receiver_email
    password = ""
    text = """\
""" + data["message"] + """
"""
    part1 = MIMEText(text, "plain")
    message.attach(part1)
    context = ssl.create_default_context()
    with smtplib.SMTP_SSL(smtp_server, port, context=context) as server:
        server.login(sender_email, password)
        server.sendmail(sender_email, receiver_email,
message.as_string())
```

```
    output = {"status": 200}
    return "success"
```

farm_entry.py

```
____import pymysql
import requests
import json
import smtplib,ssl
from email.mime.text import MIMEText
from email.mime.multipart import MIMEMultipart
import clx.xms
import random
import math
from flask import jsonify

otp = ""
mobile = ""
password = ""
username = ""

mydb = pymysql.connect(
    host="localhost",
    user="root",
    password="1234",
    database="web_services"
)

def new_entry(data):
    mycursor = mydb.cursor()
    sql = "INSERT INTO entryTable (user_id ,entry_name ,farm_id ,
irrigation, pesticide ,fertilizer , time,comments ) VALUES
( %s,%s,%s,%s,%s,%s,%s,%s)"
```

```

    val =
(data["user_key"],data["name"],data["farm_id"],data["irrigation"],data[""
pesticide"],data["fertilizer"],data["date"],data["comments"])
    mycursor.execute(sql, val)

    mydb.commit()
    output = {"status": "success"}
    return jsonify(output)

def previous_entry(data):
    mycursor = mydb.cursor()
    sql = "select * from entryTable where user_id
="+data["user_key"]+" and farm_id="+data["farm_id"]+" Order by
entry_id DESC"
    mycursor.execute(sql)
    myresult = list(mycursor.fetchall())
    if len(myresult) == 0:
        return {"status":"no previous entries"}
    else:
        user_info = myresult
        print(user_info[0])
        return {"status":"success","user_info":user_info[0]}
    output = {"status": "success"}
    return jsonify(output)

def widget_info(data):
    mycursor = mydb.cursor()
    sql = "select COUNT(*) from entryTable where user_id
="+data["user_key"]+" and farm_id="+data["farm_id"]
    mycursor.execute(sql)
    myresult = list(mycursor.fetchall())
    if len(myresult) == 0:
        output = {"status":"no previous entries","no_of_entries":0}
    return(output)

```

```

else:
    user_info = myresult
    print(user_info[0])
    output = {"no_of_entries":user_info[0]}

    sql = "select time from entryTable where user_id
    =" + data["user_key"] + " and farm_id=" + data["farm_id"] + " and
    irrigation=True Order by entry_id DESC"
    mycursor.execute(sql)
    myresult = list(mycursor.fetchall())
    if len(myresult) == 0:
        output["irrigation"] = "No previous value"
    else:
        user_info = myresult
        print(user_info[0])
        output["irrigation"] = user_info[0]

    sql = "select time from entryTable where user_id
    =" + data["user_key"] + " and farm_id=" + data["farm_id"] + " and
    fertilizer=True Order by entry_id DESC"
    mycursor.execute(sql)
    myresult = list(mycursor.fetchall())
    if len(myresult) == 0:
        output["fertilizer"] = "No previous value"
    else:
        user_info = myresult
        print(user_info[0])
        output["fertilizer"] = user_info[0]

    sql = "select time from entryTable where user_id
    =" + data["user_key"] + " and farm_id=" + data["farm_id"] + " and
    pesticide=True Order by entry_id DESC"
    mycursor.execute(sql)
    myresult = list(mycursor.fetchall())
    if len(myresult) == 0:

```

```
        output["pesticide"] = "No previous value"
else:
    user_info = myresult
    print(user_info[0])
    output["pesticide"] = user_info[0]

output["status"] = "success"
mycursor.close()
return jsonify(output)
```

Javascript Code:

Cookie.js

```
function setCookie(name,value,days) {
    var expires = "";
    if (days) {
        var date = new Date();
        date.setTime(date.getTime() + (days*24*60*60*1000));
        expires = "; expires=" + date.toUTCString();
    }
    document.cookie = name + "=" + (value || "") + expires + "; path=/";
}

//js functin to get cookie
function getCookie(name) {
    var nameEQ = name + "=";
    var ca = document.cookie.split(';');
    for(var i=0;i < ca.length;i++) {
        var c = ca[i];
        while (c.charAt(0)==' ') c = c.substring(1,c.length);
        if (c.indexOf(nameEQ) == 0) return
        c.substring(nameEQ.length,c.length);
    }
    return null;
}

//js function to erase cookies
function eraseCookie(name) {
    document.cookie = name +'=; Path=/; Expires=Thu, 01 Jan 1970
00:00:01 GMT;';
}
```

map.js

```
____var baseMap;
var poly;
var base;
var user_key;
var userID;
var productSelected;
var center;
var plink;
var dateSelected;
var availUDates = new Array();
var availHDates = new Array();
var j;
var jsonDate;
var dataLink;
var flag;
var tableFlag = 0;
var statLink;
var api_url;
var selectedDate;
var chartH = new Array();
var chartU = new Array();
var mean = new Array();
var surl = new Array();
var links = new Array();
var sample;
var tflag = 0;
var lflag = 0;
var legendIcon = 0;
var productList;
var farm_name;
var selected;
/*
var raster = new ol.layer.Tile({
```

```
source: new ol.source.OSM(),
});*/
var raster = new ol.layer.Tile({
  source: new ol.source.XYZ({
    url:
    'https://api.mapbox.com/styles/v1/mapbox/satellite-streets-v10/tiles/{z}/{x}/{y}?access_token=pk.eyJ1joiYmFsYWppMjl3IwiYSI6ImNrbm10Z2h6NjB2eXQybnBlaTZ3cGgxMzMifQ.KSd7ydAqcZCAEzgoB6iLzA',
    tileSize: 512
  })
});
var source = new ol.source.Vector({wrapX: false});

var vector = new ol.layer.Vector({
  source: source,
});
var view_var = new ol.View({
  zoom: 5,
  minZoom: 3,
  center: ol.proj.fromLonLat([80.9038, 22.4937]),
});
var map = new ol.Map({
  layers: [raster, vector],
  target: 'map',
  view: view_var,
});
//var typeSelect = document.getElementById('type');
function drawFarm(key) {
  console.log('Hello');
  var formatArea = function(polygon) {
```

```

var area = ol.Sphere.getArea(polygon);
var output;
output = (Math.round(area / 1000000 * 100) / 100);
console.log("In function = " + output);
return output;
};

var draw;
function addInteraction() {
    var value = 'Polygon';
    if (value !== 'None') {
        draw = new ol.interaction.Draw({
            source: source,
            type: value,
        });
        map.addInteraction(draw);
    }
    map.addInteraction(draw);
    draw.on('drawstart', function(evt) {
        sketch = evt.feature;
        console.log("sketch:" + sketch);
        console.log("here ");

        listener = sketch.getGeometry().on('change', function(evt) {
            //console.log("in listener")
            var geom = evt.target;
            var output;
            if (geom instanceof ol.geom.Polygon) {
                output = formatArea(geom);
                /*console.log("output: "+output);*/
                farm_area = parseFloat(output);
                console.log(farm_area)
            } else {
                console.log("outside");
            }
        })
    })
}

```

```

});

draw.on('drawend', function(event) {
  var intersect = false;
  var feature = event.feature;
  if (sketch.getGeometry().getType() == "Polygon") {
    console.log("Hi, from inside");
    poly = feature.getGeometry().getCoordinates();
    console.log("poly: " + poly);
    var kinkedPoly = turf.polygon(poly);
    var unkinkedPoly = turf.unkinkPolygon(kinkedPoly);
    if (unkinkedPoly.features.length > 1) {
      console.log("In intersection");
      intersect = true;
      /*sweetAlert({
        icon: 'error',
        title: 'Oops...',
        text: 'The farm you have drawn in having intersection(s).'
      })*/
    }
  }
  if (!intersect) {
    console.log("intersect: " + intersect);
    if (farm_area > 8.093713) {
      var message = "Farm size exceeded!\n" + "Your Farm Size: "
      + farm_area;
      sweetAlert({
        icon: 'error',
        title: 'Oops!',
        text: message,
        footer: 'Your Farm Size: ' + farm_area
      });
      source.clear();
    } else {
  
```

```

(async() => {

  const { value: formValues } = await Swal.fire({
    title: 'Enter your farm name',
    html: '<input id="drawFarmName" class="swal2-input">' +
    + '<h3>Crop Type</h3>' +
      ' <br> <input type="radio" id="rice" name="crop" value="rice"> <label for="rice">Rice</label><br> <input type="radio" id="wheat" name="crop" value="wheat"> <label for="wheat">Wheat</label><br> <input type="radio" id="other" name="crop" value="other"><label for="other">Other</label>',
    focusConfirm: false,
    allowOutsideClick: false,
    showCancelButton: true,

    preConfirm: () => {
      return [
        document.getElementById('drawFarmName').value,
      ]
    }
  })

})()
.then((value) => {

  selected = $('input[name="crop"]:checked').val();
  console.log(selected);
  //product = productList.toString();
  farm_name =
document.getElementById('drawFarmName').value,
  //console.log('products=' + product);
}

```

```

        console.log('proper_format=' + proper_format);
        var jsonobj = JSON.parse(proper_format);
        //console.log(jsonobj);
        jsonobj.name = farm_name;
        proper_format = JSON.stringify(jsonobj);
        console.log(proper_format); // do all your logic here
        console.log(farm_name);
        proper_format.cropname = selected

        insertValues(key);
        console.log("coord1234: " + proper_format);
        // do all your logic here
        console.log("in swal " + farm_name);

        console.log("in swal " + selected);
    });
}
} else {
    console.log("intersect: " + intersect);
    sweetAlert({
        icon: 'error',
        title: 'Oops!',
        text: 'Please draw a valid farm.'
    });
    intersect = false;
}
});
}
addInteraction();
const format = new ol.format.GeoJSON({ featureProjection:
'EPSG:3857' });
const download = document.getElementById('download');
source.on('change', function() {

```



```

function insertValues(key) {
    console.log("func : " + farm_name);
    console.log("func : " + selected);
    console.log("function : " + proper_format);

    js_ob = JSON.parse(proper_format)
    console.log(js_ob.cropname)
    js_ob.cropname = selected
    //console.log(proper_format)

    console.log('http://127.0.0.1:5010/postjson?key=' + key)
    var jsonstr = JSON.stringify(js_ob)
    console.log(typeof(jsonstr))
    //console.log(jsonstr);
    $.ajax({
        url : 'http://127.0.0.1:5010/postjson?key=' + key,
        type : 'POST',
        cors : true,
        headers: {
            'Access-Control-Allow-Origin': '*',
        },
        contentType: 'application/json',
        data : jsonstr,
        success : function(data)
        {
            console.log(data);
        }
    });
    window.location.href="myfarms.html";
}

function fetchfarms(key) {
    console.log("func key: " + farm_name);
}

```

```

//var key = getCookie('user_key');
console.log(key);

console.log('http://127.0.0.1:5010/userfarms?key=' + key)
//var jsonstr = JSON.stringify(js_ob)
//console.log(typeof(jsonstr))
//console.log(jsonstr);
$.ajax({
    url : 'http://127.0.0.1:5010/userfarms?key=' + key,
    type : 'POST',
    cors : true,
    headers: {
        'Access-Control-Allow-Origin': '*',
    },
    contentType: 'application/json',
    success : function(data)
    {
        console.log(data);
    }
});
}

```

myfarm.js

```

____var farm_name;
var raster = new ol.layer.Tile({
    source: new ol.source.XYZ({
        url:
'https://api.mapbox.com/styles/v1/mapbox/satellite-streets-v10/tiles/{z}
}/{x}/{y}?access_token=pk.eyJ1IjoiYmFsYWppMjI3IiwiYSI6ImNrbm10
Z2h6NjB2eXQybnBlaTZ3cGgxMzMifQ.KSd7ydAqcZCAEzgoB6iLZA',
        tileSize: 512
    })
});

```

```

var source = new ol.source.Vector({wrapX: false});

var vector = new ol.layer.Vector({
  source: source,
});

var view_var = new ol.View({
  zoom: 5,
  minZoom: 3,
  center: ol.proj.fromLonLat([80.9038, 22.4937]),
});

var map = new ol.Map({
  layers: [raster, vector],
  target: 'map',
  view: view_var
});

var js =
'{"coordinates": [[[77.47381782610317,18.823230684599565],[77.473
86932373044,18.821898337682356],[77.47489929199216,18.82184
9593211198],[77.47483062717944,18.82230454209204],[77.475740
43300118,18.822272045651417],[77.47584342956542,18.82430305
3677724],[77.47397232029469,18.824368045457433],[77.47381782
610317,18.823230684599565]]}]';
}

function fetchfarms(key) {
  //console.log("func key: " + farm_name);
  //var key = getCookie('user_key');
  console.log(key);
  formoption = "<ul class='nav nav-treeview'>"
```

console.log('http://127.0.0.1:5010/userfarms?key=' + key)

```

$.ajax({
    url : 'http://127.0.0.1:5010/userfarms?key=' + key,
    type : 'POST',
    cors : true,
    headers: {
        'Access-Control-Allow-Origin': '*',
    },
    contentType: 'application/json',
    success : function(data)
    {
        console.log(data);
        FarmArray = data["Active"]
        console.log(FarmArray[0]);
        for(let i = 0;i < FarmArray.length;i++){
            console.log(FarmArray[i]["farmname"],FarmArray[i]["farmid"]);
            formoption += "<li class='nav-item'><a
onclick='fetchcoords(\"+FarmArray[i][\"farmid\"]+"); return false;'"
            class='nav-link'><i class='fas fa-leaf
nav-icon'></i><p>"+FarmArray[i]["farmname"]+"</p></a></li>";

            console.log(i,formoption)
        }
        formoption += '</ul>';
        $('#user_farms').append(formoption);

    }
});

var js_obj;
var vectorLayer;
var content;

```

```
function gen_overlay(farmid){

    var fname, cname;

    $.ajax({
        url : 'http://127.0.0.1:5010/name_crop?farmid=' + farmid,
        type : 'POST',
        cors : true,
        headers: {
            'Access-Control-Allow-Origin': '*',
        },
        contentType: 'application/json',
        success : function(data)
        {
            setCookie('farm_name', data.farmname);
            console.log(data.farmname);
            fname = data.farmname;
            cname = data.crop;

        }
    });

    map.on('singleclick', function (evt) {
        console.log("single click");
        flag_var = 0;
        chk_arr = [];
        setCookie('farm_id', farmid, 1);
        console.log(getCookie('farm_id'));
        var coordinate = evt.coordinate;
        //console.log(vectorLayer);
        var chk_arr =
vectorLayer.getSource().getFeaturesAtCoordinate(coordinate)
        console.log(chk_arr.length);
        if(chk_arr.length > 0){
            flag_var = 1;
        }
    });
}
```

```

        console.log("In if condn "+flag_var);
        console.log("In gen_overlay",farmid)
    }
    console.log(flag_var);
    var hdms =
ol.coordinate.toStringHDMS(ol.proj.toLonLat(coordinate));
    content.innerHTML = '<p>You clicked Here:</p><p>Farm name: ' +
fname + '</p><p>Crop Type: '+ cname + '</p>' + '<a
href="addtask.html"> Click Here to Add Task </a> <br><a
href="farm_entry.html"> Click Here to Create Log </a>';

    overlay.setPosition(coordinate);
    if(flag_var > 0){
        console.log("in if");
        map.addOverlay(overlay);
    }
    else{
        map.removeOverlay(overlay);
    }

});
}
function fetch_weather(fid) {
    var weather_nav;

$.ajax({
    url: 'http://127.0.0.1:5010/weather?farmid=' + fid,
    type: 'POST',
    cors: true,
    headers: {
        'Access-Control-Allow-Origin': '*',
    },
    contentType: 'application/json',
    success: function(data) {
        console.log(data.result_weather);
    }
}

```

```

weather_array = data.result_weather
var weather_nav = ""
for (i = 0; i < weather_array.length; i++) {
    var in_celsius = parseFloat(weather_array[i]["day"]) - 273.0
    var weather_desc = String(weather_array[i]["desc"]);
    if (weather_desc.includes("cloud")) {
        icon_string = "<i class='fas fa-cloud fa-2x'
style='color:#9ba3a3'></i>"
    } else if (weather_desc.includes("rain")) {
        icon_string = "<i class='fas fa-cloud-showers-heavy fa-2x'
style='color:#54c9d1'></i>"
    } else if (weather_desc.includes("sky")) {
        icon_string = "<i class='fas fa-cloud-sun fa-2x'
style='color:#fed426'></i>"
    }
    else if (weather_desc.includes("snow")) {
        icon_string = "<i class='fas fa-snowflake fa-2x'
style='color:#54c9d1'></i>"
    }
    weather_nav += "<a href='#' class='dropdown-item'> <div
class='media'><div class='img-size-50 mr-3'>" + icon_string +
"</div><div class='media-body'> <h3 class='dropdown-item-title'> " +
weather_array[i]["date"] + "<span class='float-right text-sm '}>" +
String(in_celsius.toFixed(2)) + " &nbsp;<i class='fas
fa-temperature-low'></i></span> </h3> <p class='text-sm'>" +
weather_array[i]["desc"] + "</p> </div> </div> </a> <div
class='dropdown-divider'></div>"
    }
    /
    console.log(weather_nav)
    $('#weather_forecast').html(weather_nav);
}
});
}

```

```
function fetchcoords(fid) {  
  
    map.removeLayer(vectorLayer);  
    fetch_weather(fid);  
    var farmid = fid;  
    console.log('http://127.0.0.1:5010/showfarm?farmid=' + farmid)  
  
    $.ajax({  
        url : 'http://127.0.0.1:5010/showfarm?farmid=' + farmid,  
        type : 'POST',  
        cors : true,  
        headers: {  
            'Access-Control-Allow-Origin': '*',  
        },  
        contentType: 'application/json',  
        success : function(data)  
        {  
            farm_name = data.name;  
            console.log(farm_name);  
            console.log(data);  
            crd = data;  
            //console.log(typeof(crd))  
            console.log("HELLO" + crd.coordinates[0]);  
            var polygon = new ol.geom.Polygon([crd.coordinates[0]]);  
            polygon.applyTransform.ol.proj.getTransform('EPSG:4326',  
                'EPSG:3857'))  
            // Create feature with polygon.  
            var feature = new ol.Feature(polygon);  
  
            // Create vector source and the feature to it.  
            var vectorSource = new ol.source.Vector();  
            vectorSource.addFeature(feature);  
  
            // Create vector layer attached to the vector source.  
            vectorLayer = new ol.layer.Vector({
```

```
        source: vectorSource
    });
    view_var.fit(polygon, { padding: [170, 50, 30, 150] });
    // Add the vector layer to the map.
    map.addLayer(vectorLayer);
    gen_overlay(farmid);      }
});

window.onload = function pop_up(){

fetchfarms(getCookie('user_key'));
var user_name = getCookie('username');
console.log(user_name);
var tag = "<a href='#' class='d-block'>" + user_name + "</a>"
$("#username").html(tag);

var flag_var = 0;
console.log("in pop up")
var container = document.getElementById('popup');
content = document.getElementById('popup-content');
var closer = document.getElementById('popup-closer');

overlay = new ol.Overlay({
    element: container,
    autoPan: true,
    autoPanAnimation: {
        duration: 250,
    },
});
closer.onclick = function () {
    overlay.setPosition(undefined);
    closer.blur();
}
```

```
        return false;
    };
}
```

task.js

```
function addtask(userid){
    var title=$("#titleinp").val();
    var date=$("#dateinp").val();
    var priority=$("#priorityinp").val();
    var description=$("#descinp").val();

    farmid = getCookie("farm_id");
    console.log(farmid);
    console.log('http://127.0.0.1:5010/newtask')
    var jsonstr = "{\"seton\":\"" + date + "," + "\"about\":\"" + description + 
    "," + "\"priority\":\"" + priority + "," + "\"title\":\"" + title + "}";
    console.log(jsonstr);
    $.ajax({
        url : 'http://127.0.0.1:5010/newtask?farmid=' + farmid +
        '&userid=' + userid,
        type : 'POST',
        cors : true,
        headers: {
            'Access-Control-Allow-Origin': '*',
        },
        contentType: 'application/json',
        data : jsonstr,
        success : function(data)
        {
            console.log(data.result);
        }
    });
}
```

HTML Code:

register.html

```
____ <!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
    <link
        href="https://cdnjs.cloudflare.com/ajax/libs/simple-line-icons/2.4.1/css
/simple-line-icons.min.css" rel="stylesheet">
    <link rel="stylesheet"
        href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.
min.css">
    <link rel="stylesheet"
        href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/fo
nt-awesome.min.css">
    <link rel="stylesheet" href=".css/main.css">
    <script
        src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.mi
n.js"></script>
</head>

<body>

    <div class="date-form" style="padding: 70px 0;">
        <form>
            <h3 style="text-align: center; margin-bottom: 25px; color:
rgb(70, 65, 65);>Farm Aid Registration</h3>
            <div class="form-icon">
```

```
<!-- <span><i class="fa fa-user-plus" aria-hidden="true"></i></span> -->
</div>
<div class="form-group">
    <input type="search" class="form-control item" id="name" placeholder="Enter name">
</div>
<div class="form-group">
    <input type="search" class="form-control item" id="mobile" placeholder="Enter mobile no">
</div>
<div class="form-group">
    <input type="password" class="form-control item" id="password" placeholder="Enter password">
</div>
<div class="form-group " style="text-align: center;">
    <button type="button" class="submit" onclick="register()">Register</button>
</div>

</form>

</div>
<script type="text/javascript"
src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/jquery.mask/1.14.15/jquery.mask.min.js"></script>
<script>
function register() {
    var password = $("#password").val();
    var mobile = $("#mobile").val();
    var name = $("#name").val();
```

```

$.ajax({
    url: 'http://127.0.0.1:5010/new_user',
    type: 'POST',
    cors: true,
    headers: {
        'Access-Control-Allow-Origin': '*',
    },
    contentType: 'application/json',
    data: JSON.stringify({
        "mobile": mobile,
        "password": password,
        "name": name
    }),
    success: function(output) {
        console.log(output)
        $("#result").val(output["status"]);
        if (output["status"] == "success") {
            window.location.href = "./verify_otp.html";
        }
    }
});
}
</script>
</body>
</html>

```

login.html

```

____<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
```

```
<link
href="https://cdnjs.cloudflare.com/ajax/libs/simple-line-icons/2.4.1/css
/simple-line-icons.min.css" rel="stylesheet">
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.
min.css">
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/fo
nt-awesome.min.css">
<link rel="stylesheet" href=".//css/main.css">
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.mi
n.js"></script>
</head>

<body>

<div class="date-form" style="padding: 70px 0;">
<form>
    <h3 style="text-align: center; margin-bottom: 25px; color:
rgb(70, 65, 65);>Farm Aid</h3>
    <div class="form-icon">
    </div>
    <div class="form-group">
        <input type="search" class="form-control item" id="mobile"
placeholder="Enter mobile">
    </div>
    <div class="form-group">
        <input type="password" class="form-control item"
id="password" placeholder="Enter password">
    </div>
    <div class="form-group " style="text-align: center;">
        <button type="button" class="submit"
onclick="login()">login</button>
    </div>
</div>
```

```
</form>

</div>
<script type="text/javascript"
src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
<script src="js/cookie.js"></script>
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/jquery.mask/1.14.15/jquery.
mask.min.js"></script>
<script>
function login() {
    var password = $("#password").val();
    var mobile = $("#mobile").val();
    document.cookie = "mobile=" + mobile;
    $.ajax({
        url: 'http://127.0.0.1:5010/login',
        type: 'POST',
        cors: true,
        headers: {
            'Access-Control-Allow-Origin': '*',
        },
        contentType: 'application/json',
        data: JSON.stringify({
            "mobile": mobile,
            "password": password
        }),
        success: function(output) {
            console.log(output["user_info"][1]);
            if (output["status"] == "success") {
                console.log("success");
                setCookie('username', output["user_info"][1], 1);
                setCookie('user_key', output["user_info"][0], 1);
                window.location.href = 'index.html';
            }
        }
    });
}

```

```
        }
    }
});
}
</script>
</body>
</html>
```

verify_otp.html

```
____<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
    <link
        href="https://cdnjs.cloudflare.com/ajax/libs/simple-line-icons/2.4.1/css
/simple-line-icons.min.css" rel="stylesheet">
    <link rel="stylesheet"
        href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.
min.css">
    <link rel="stylesheet"
        href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/fo
nt-awesome.min.css">
    <link rel="stylesheet" href=".css/main.css">
    <script
        src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.mi
n.js"></script>
</head>

<body>

    <div class="date-form" style="padding: 70px 0;">
```

```
<form>
    <h3 style="text-align: center; margin-bottom: 25px; color: #4d79a9;">OTP Verification</h3>
    <div class="form-icon">
    </div>
    <div class="form-group">
        <input type="search" class="form-control item" id="otp" placeholder="Enter otp send to your mobile">
    </div>
    <div class="form-group " style="text-align: center;">
        <button type="button" class="submit" onclick="verify_otp()">Verify</button>
    </div>

</form>

</div>
<script type="text/javascript"
src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/jquery.mask/1.14.15/jquery.mask.min.js"></script>
<script>
    function verify_otp() {
        var value = $("#otp").val();
        $.ajax({
            url: 'http://127.0.0.1:5010/verify_otp',
            type: 'POST',
            cors: true,
            headers: {
                'Access-Control-Allow-Origin': '*',
            },
            contentType: 'application/json',
            data: JSON.stringify({
```

```

        "otp": value
    }),
    success: function(output) {
        console.log(output)
        if (output["status"] == "success") {
            window.location.href = './login.html'
        }
    }
});
}
</script>
</body>
</html>

```

[index.html](#)

```

-----<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
    <title>Draw Farm</title>

    <!--Openlayers, Turf and leaflet-->
    <script
src="https://cdn.rawgit.com/openlayers/openlayers.github.io/master/e
n/v4.6.5/build/ol.js"></script>
    <link rel="stylesheet"
href="https://openlayers.org/en/v4.6.5/css/ol.css" type="text/css">
    <script
src="https://cdn.jsdelivr.net/npm/@turf/turf@5/turf.min.js"></script>
    <link rel="stylesheet"
href="https://unpkg.com/leaflet@1.0.3/dist/leaflet.css"
integrity="sha512-07l2e+7D8p6he1SIM+1twR5TlrhUQn9+l6yjqD53J

```

```
QjFiMf8EtC93ty0/5vJTZGF8aAocvHYNEDJajGdNx1lsQ=="
crossorigin="" />
<script src="https://unpkg.com/leaflet@1.0.3/dist/leaflet.js"
integrity="sha512-A7vV8lFFih/D732iSSKi20u/ooOfj/AGehOKq0f4vLT1
Zr2Y+RX7C+w8A1gaSasGtRUZpF/NZgzSAu4/Gc41Lg=="
crossorigin=""></script>

<!--SweetAlert-->
<script
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/7.29.2/
sweetalert2.all.js"></script>
<script
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/s
weetalert2.min.js"></script>
<link rel="stylesheet" type="text/css"
href="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/
sweetalert2.css">

<!-- Google Font: Source Sans Pro -->
<link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300
,400,400i,700&display=fallback">
<!-- Font Awesome -->
<link rel="stylesheet"
href="plugins/fontawesome-free/css/all.min.css">
<!-- overlayScrollbars -->
<link rel="stylesheet"
href="plugins/overlayScrollbars/css/OverlayScrollbars.min.css">
<!-- Theme style -->
<style>
.myButton {
```

```
padding: 30px;
display: block;
background-color: green;
color: white;
text-align: center;
position: absolute;
top: 10px;
right: 10px;
}
</style>
<script>
function logout() {
    eraseCookie("user_name");
    eraseCookie("user_key");
    window.location.href = 'login.html';
}
</script>
</head>

<body class="hold-transition sidebar-mini layout-fixed">
<!-- Site wrapper -->
<div class="wrapper">
<!-- Navbar -->
<nav class="main-header navbar navbar-expand navbar-white
navbar-light">
<!-- Left navbar links -->
<ul class="navbar-nav">
<li class="nav-item">
    <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
</li>
<li class="nav-item d-none d-sm-inline-block">
    <a href="about.html" class="nav-link">About</a>
</li>
<li class="nav-item d-none d-sm-inline-block">
```

```
        <a href="about.html#contact"
class="nav-link">Contact</a>
        </li>
    </ul>

<!-- Right navbar links --&gt;
&lt;ul class="navbar-nav ml-auto"&gt;
    <!-- Notifications Dropdown Menu --&gt;
    &lt;li class="nav-item dropdown"&gt;
        &lt;a class="nav-link" data-toggle="dropdown" href="#"&gt;
            &lt;div onclick="logout()"&gt;
                &lt;i class="fas fa-sign-out-alt"&gt;&lt;/i&gt;
            &lt;/div&gt;
        &lt;/a&gt;
    &lt;/li&gt;
&lt;/ul&gt;
&lt;/nav&gt;
<!-- /.navbar --&gt;

<!-- Main Sidebar Container --&gt;
&lt;aside class="main-sidebar sidebar-dark-primary elevation-4"&gt;
    <!-- Brand Logo --&gt;
    &lt;a href="#" class="brand-link"&gt;
        &lt;img src=".//logo.png" class="brand-image img-circle elevation-3" style="opacity: .8"&gt;
        &lt;span class="brand-text font-weight-light"&gt;Farm
Aid&lt;/span&gt;
    &lt;/a&gt;

    <!-- Sidebar --&gt;
    &lt;div class="sidebar"&gt;
        <!-- Sidebar user (optional) --&gt;
        &lt;div class="user-panel mt-3 pb-3 mb-3 d-flex"&gt;
            &lt;div class="image"&gt;</pre>
```

```
        
    </div>
    <div id="username" class="info"></div>
</div>

<nav class="mt-2">
    <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">

        <li class="nav-item has-treeview">
            <a href="myfarms.html" class="nav-link" id="myfarms">
                <i class="nav-icon fa fa-eye"></i>
                <p>
                    My Farms
                    <i class="right fas fa-angle-left"></i>
                </p>
            </a>
            <ul class="nav nav-treeview">
                <li class="nav-item">
                    <a href="#" class="nav-link">
                        <i class="fas fa-leaf nav-icon"></i>
                        <p>Ex: Farm 1</p>
                    </a>
                </li>
            </ul>
        </li>
        <li class="nav-item has-treeview">
            <a href="index.html" class="nav-link active" id="firstpage">
                <i class="nav-icon fas fa-edit"></i>
                <p>
                    Draw Farm
                </p>
            </a>
        </li>
    </ul>
</nav>
```

```
</a>
</li>
<li class="nav-item has-treeview">
    <a href="schedule.html" class="nav-link"
id="schedule">
        <i class="nav-icon fa fa-calendar"></i>
        <p>
            Schedule
        </p>
    </a>
    <ul class="nav nav-treeview">
        <li class="nav-item">
            <a href="addtask.html" class="nav-link">
                <i class="fa fa-plus nav-icon"></i>
                <p>Add Task</p>
            </a>
        </li>
    </ul>
</li>
</ul>
</nav>
<!-- /.sidebar-menu -->
</div>
<!-- /.sidebar -->
</aside>

<div class="content-wrapper" id="map">
    <section class="content">

        <div class="container-fluid">
        </div>
    </section>
</div>

<aside class="control-sidebar control-sidebar-dark">
```

```

        </aside>
    </div>
    <script>
        document.getElementById("myfarms").onclick = function() {
            location.href = "myfarms.html";
        };
        document.getElementById("schedule").onclick = function() {
            location.href = "schedule.html";
        };
    </script>

<script src="plugins/jquery/jquery.min.js"></script>
<script src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<script
src="plugins/overlayScrollbars/js/jquery.overlayScrollbars.min.js"></script>
<script src="dist/js/demo.js"></script>
<script src="js/map.js"></script>
<script src="js/cookie.js"></script>

<script>
    //set username in the sidebar
    window.onload = function() {
        var user_name = getCookie('username');
        console.log(user_name);
        var tag = "<a href='#' class='d-block'>" + user_name + "</a>";
        $("#username").html(tag);

        //fetchfarms(getCookie('user_key'));
        drawFarm(getCookie('user_key'));
    };

    function myfarms_id(id) {

```

```

        console.log($(id).attr('id'));
        var id_with_name = $(id).attr('id');
        str_arr = id_with_name.split("/");
        var farmid = str_arr[0]
        var set_farmname = str_arr[1]
        setCookie('farm_id', farmid, 1);
        setCookie('farm_name', set_farmname, 1);
        window.location.href = 'myfarms.html'
    }
</script>
</body>
</html>

```

myfarms.html

```

____<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
    <title>My Farms</title>

    <!--Openlayers, Turf and leaflet-->
    <script
src="https://cdn.rawgit.com/openlayers/openlayers.github.io/master/e
n/v4.6.5/build/ol.js"></script>
    <link rel="stylesheet"
href="https://openlayers.org/en/v4.6.5/css/ol.css" type="text/css">
    <script
src="https://cdn.jsdelivr.net/npm/@turf/turf@5/turf.min.js"></script>
    <link rel="stylesheet"
href="https://unpkg.com/leaflet@1.0.3/dist/leaflet.css"
integrity="sha512-07l2e+7D8p6he1SIM+1twR5TlrhUQn9+l6yjqD53J

```

```
QjFiMf8EtC93ty0/5vJTZGF8aAocvHYNEDJajGdNx1lsQ=="  
crossorigin="" />  
    <script src="https://unpkg.com/leaflet@1.0.3/dist/leaflet.js"  
integrity="sha512-A7vV8lFFih/D732iSSKi20u/ooOfj/AGehOKq0f4vLT1  
Zr2Y+RX7C+w8A1gaSasGtRUZpF/NZgzSAu4/Gc41Lg=="  
crossorigin=""></script>  
  
    <!--SweetAlert-->  
    <script  
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>  
    <script  
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/7.29.2/  
sweetalert2.all.js"></script>  
    <script  
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>  
    <script type="text/javascript"  
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/s  
weetalert2.min.js"></script>  
    <link rel="stylesheet" type="text/css"  
href="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/  
sweetalert2.css">  
  
    <!-- Google Font: Source Sans Pro -->  
    <link rel="stylesheet"  
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300  
,400,400i,700&display=fallback">  
    <!-- Font Awesome -->  
    <link rel="stylesheet"  
href="plugins/fontawesome-free/css/all.min.css">  
    <!-- overlayScrollbars -->  
    <link rel="stylesheet"  
href="plugins/overlayScrollbars/css/OverlayScrollbars.min.css">  
    <!-- Theme style -->  
    <style>  
        .myButton {
```

```
padding: 30px;
display: block;
background-color: green;
color: white;
text-align: center;
position: absolute;
top: 10px;
right: 10px;
}

.ol-popup {
    position: absolute;
    background-color: white;
    box-shadow: 0 1px 4px rgba(0, 0, 0, 0.2);
    padding: 15px;
    border-radius: 10px;
    border: 1px solid #cccccc;
    bottom: 12px;
    left: -50px;
    min-width: 280px;
}

.ol-popup:after,
.ol-popup:before {
    top: 100%;
    border: solid transparent;
    content: " ";
    height: 0;
    width: 0;
    position: absolute;
    pointer-events: none;
}

.ol-popup:after {
    border-top-color: white;
```

```
border-width: 10px;
left: 48px;
margin-left: -10px;
}

.ol-popup:before {
    border-top-color: #cccccc;
    border-width: 11px;
    left: 48px;
    margin-left: -11px;
}

.ol-popup-closer {
    text-decoration: none;
    position: absolute;
    top: 2px;
    right: 8px;
}

.ol-popup-closer:after {
    content: "✖";
}

</style>
<script>
    function logout() {
        eraseCookie("user_name");
        eraseCookie("user_key");
        window.location.href = 'login.html';
    }
</script>
</head>

<body class="hold-transition sidebar-mini layout-fixed">
    <!-- Site wrapper -->
    <div class="wrapper">
```

```
<!-- Navbar -->
<nav class="main-header navbar navbar-expand navbar-white
navbar-light">
    <!-- Left navbar links -->
    <ul class="navbar-nav">
        <li class="nav-item">
            <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
        </li>
        <li class="nav-item d-none d-sm-inline-block">
            <a href="about.html#about" class="nav-link">About</a>
        </li>
        <li class="nav-item d-none d-sm-inline-block">
            <a href="about.html#contact" class="nav-link">Contact</a>
        </li>
    </ul>

    <!-- Right navbar links -->
    <ul class="navbar-nav ml-auto">
        <!-- Messages Dropdown Menu -->
        <!-- Messages Dropdown Menu -->
        <li class="nav-item dropdown">
            <a class="nav-link" data-toggle="dropdown" href="#">
                <i class="fas fa-cloud-sun-rain"></i>
                <!-- <span class="badge badge-danger
navbar-badge">.</span> -->
            </a>
            <div class="dropdown-menu dropdown-menu-lg
dropdown-menu-right" id="weather_forecast">
                </div>
            </li>
        <li class="nav-item dropdown">
            <a class="nav-link" data-toggle="dropdown" href="#">
```

```
<div onclick="logout()">
    <i class="fas fa-sign-out-alt"></i>
</div>
</a>
</li>
</ul>
</nav>
<!-- /.navbar -->

<!-- Main Sidebar Container -->
<aside class="main-sidebar sidebar-dark-primary elevation-4">
    <!-- Brand Logo -->
    <a href="#" class="brand-link">
        
        <span class="brand-text font-weight-light">Farm
Aid</span>
    </a>

    <!-- Sidebar -->
    <div class="sidebar">
        <!-- Sidebar user (optional) -->
        <div class="user-panel mt-3 pb-3 mb-3 d-flex">
            <div class="image">
                
            </div>
            <div id="username" class="info"></div>
        </div>

        <!-- Sidebar Menu -->
        <nav class="mt-2">
            <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
                <!-- Add icons to the links using the .nav-icon class -->
            </ul>
        </nav>
    </div>
</aside>
```

with font-awesome or any other icon font library -->

```
<li class="nav-item has-treeview" id="user_farms">
    <a href="myfarms.html" class="nav-link active"
        id="info">
        <i class="nav-icon fa fa-eye"></i>
        <p>
            My Farms
            <i class="right fas fa-angle-left"></i>
        </p>
        </a>
    </li>
    <li class="nav-item has-treeview">
        <a href="index.html" class="nav-link" id="firstpage">
            <i class="nav-icon fas fa-edit"></i>
            <p>
                Draw Farm
            </p>
        </a>
    </li>
    <li class="nav-item has-treeview">
        <a href="schedule.html" class="nav-link"
            id="schedule">
            <i class="nav-icon fa fa-calendar"></i>
            <p>
                Schedule
            </p>
        </a>
        <ul class="nav nav-treeview">
            <li class="nav-item">
                <a href="addtask.html" class="nav-link">
                    <i class="fa fa-plus nav-icon"></i>
                    <p>Add Task</p>
                </a>
            </li>
        </ul>
    </li>

```

```
        </li>
    </ul>
</nav>
<!-- /.sidebar-menu -->
</div>
<!-- /.sidebar -->
</aside>

<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper" id="map">
    <section class="content">
        <div class="container-fluid">
            <div id="popup" class="ol-popup">
                <a href="#" id="popup-closer"
class="ol-popup-closer"></a>
                    <div id="popup-content"></div>
                </div>
            </div>
        </section>
        <!-- /.content -->
    </div>
    <!-- /.content-wrapper -->

    <!-- Control Sidebar -->
    <aside class="control-sidebar control-sidebar-dark">
        <!-- Control sidebar content goes here -->
    </aside>
    <!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->

<script src="plugins/jquery/jquery.min.js"></script>
```

```

<script src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<script
src="plugins/overlayScrollbars/js/jquery.overlayScrollbars.min.js"></s
cript>
<script src="dist/js/demo.js"></script>
<script src="js/myfarm.js"></script>
<script src="js/cookie.js"></script>

</body>
<script>
document.getElementById("firstpage").onclick = function() {
    location.href = "index.html";
};
document.getElementById("schedule").onclick = function() {
    location.href = "schedule.html";
};
</script>
</html>

```

farm_entry.html

```

____<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
    <title>Draw Farm</title>

    <!--Openlayers, Turf and leaflet-->
    <script
src="https://cdn.rawgit.com/openlayers/openlayers.github.io/master/e
n/v4.6.5/build/ol.js"></script>
    <link rel="stylesheet"
href="https://openlayers.org/en/v4.6.5/css/ol.css" type="text/css">

```

```
<script
src="https://cdn.jsdelivr.net/npm/@turf/turf@5/turf.min.js"></script>
<link rel="stylesheet"
href="https://unpkg.com/leaflet@1.0.3/dist/leaflet.css"
integrity="sha512-07l2e+7D8p6he1SIM+1twR5TlrhUQn9+l6yjqD53J
QjFiMf8EtC93ty0/5vJTZGF8aAocvHYNEDJajGdNx1lsQ=="
crossorigin="" />
<script src="https://unpkg.com/leaflet@1.0.3/dist/leaflet.js"
integrity="sha512-A7vV8lFFih/D732iSSKi20u/ooOfj/AGehOKq0f4vLT1
Zr2Y+RX7C+w8A1gaSasGtRUZpF/NzgzSAu4/Gc41Lg=="'
crossorigin=""></script>

<!--SweetAlert-->
<script
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/7.29.2/
sweetalert2.all.js"></script>
<script
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/s
weetalert2.min.js"></script>
<link rel="stylesheet" type="text/css"
href="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/
sweetalert2.css">

<!-- Google Font: Source Sans Pro -->
<link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300
,400,400i,700&display=fallback">
<!-- Font Awesome -->
<link rel="stylesheet"
href="plugins/fontawesome-free/css/all.min.css">
<!-- overlayScrollbars -->
```

```
<link rel="stylesheet"
href="plugins/overlayScrollbars/css/OverlayScrollbars.min.css">
<!-- Theme style -->
<style>
.myButton {
    padding: 30px;
    display: block;
    background-color: green;
    color: white;
    text-align: center;
    position: absolute;
    top: 10px;
    right: 10px;
}
</style>
<script>
function logout() {
    eraseCookie("user_name");
    eraseCookie("user_key");
    window.location.href = 'login.html';
}
</script>
</head>

<body class="hold-transition sidebar-mini layout-fixed">
<!-- Site wrapper -->
<div class="wrapper">
<!-- Navbar -->
<nav class="main-header navbar navbar-expand navbar-white
navbar-light">
<!-- Left navbar links -->
<ul class="navbar-nav">
<li class="nav-item">
<a class="nav-link" data-widget="pushmenu" href="#"
role="button"><i class="fas fa-bars"></i></a>
```

```
</li>
<li class="nav-item d-none d-sm-inline-block">
    <a href="#" class="nav-link">Home</a>
</li>
<li class="nav-item d-none d-sm-inline-block">
    <a href="#" class="nav-link">Contact</a>
</li>
</ul>

<!-- Right navbar links -->
<ul class="navbar-nav ml-auto">
    <li class="nav-item dropdown">
        <a class="nav-link" data-toggle="dropdown" href="#">
            <div onclick="logout()">
                <i class="fas fa-sign-out-alt"></i>
            </div>
        </a>
    </li>
</ul>
</nav>
<!-- /.navbar -->

<!-- Main Sidebar Container -->
<aside class="main-sidebar sidebar-dark-primary elevation-4">
    <!-- Brand Logo -->
    <a href="#" class="brand-link">
        
        <span class="brand-text font-weight-light">Farm
Aid</span>
    </a>

    <!-- Sidebar -->
    <div class="sidebar">
        <!-- Sidebar user (optional) -->
```

```
<div class="user-panel mt-3 pb-3 mb-3 d-flex">
    <div class="image">
        
    </div>
    <div id="username" class="info"></div>
</div>

<!-- Sidebar Menu -->
<nav class="mt-2">
    <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
        <li class="nav-item has-treeview">
            <a href="myfarms.html" class="nav-link" id="myfarms">
                <i class="nav-icon fa fa-eye"></i>
                <p>
                    My Farms
                    <i class="right fas fa-angle-left"></i>
                </p>
            </a>
            <ul class="nav nav-treeview">
                <li class="nav-item">
                    <a href="#" class="nav-link">
                        <i class="fas fa-leaf nav-icon"></i>
                        <p>Ex: Farm 1</p>
                    </a>
                </li>
            </ul>
        </li>
        <li class="nav-item has-treeview">
            <a href="index.html" class="nav-link" id="firstpage">
                <i class="nav-icon fas fa-edit"></i>
                <p>
                    Draw Farm
                </p>
            </a>
        </li>
    </ul>
</nav>
```

```
        </p>
    </a>
</li>
<li class="nav-item has-treeview">
    <a href="schedule.html" class="nav-link"
id="schedule">
        <i class="nav-icon fa fa-calendar"></i>
        <p>
            Schedule
        </p>
    </a>
</li>
</ul>
</nav>
<!-- /.sidebar-menu -->
</div>
<!-- /.sidebar -->
</aside>
```

```
<!-- Content Wrapper. Contains page content --><br>
<div class="content-wrapper">
    <section class="content">
        <div class="container-fluid">
            <div class="col-12">
                <div class="card">
                    <div class="card-header">
                        <h3 class="card-title"
id="farm_name">farm_name</h3>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
;&nbsp;&nbsp;&nbsp;
                        <!-- <small class="badge badge-warning"><i
class="fas fa-calendar-day"></i> <input type="date">
</small>
-->
```

```
<div class="card-tools">
    <button type="button" class="btn btn-tool"
data-card-widget="collapse" data-toggle="tooltip" title="Collapse">
        <i class="fas fa-minus">

    </i>
    </button>
</div>

</div>
<div class="card-body">
    <div class="row">
        <div class="col-md-6 col-sm-6 col-12">
            <div class="info-box" style="height: 110px;">
                <span class="info-box-icon bg-info"><i
class="far fa-sticky-note"></i></span>

                <div class="info-box-content">
                    <span class="info-box-text">Entry
Name</span>
                    <span class="info-box-number">
<div class="input-group">
    <input id="entry_name" type="text"
class="form-control" placeholder="Enter Name">
</div>
</span>
                </div>
                <!-- /.info-box-content -->
            </div>
            <!-- /.info-box -->
        </div>
        <div class="col-md-6 col-sm-6 col-12">
            <div class="info-box" style="height: 110px;">
                <span class="info-box-icon
bg-warning"><i class="fas fa-calendar-alt"></i></span>
```

```
<div class="info-box-content">
    <span class="info-box-text">Pick
Date</span>
    <span class="info-box-number"><input
id="entry_date" type="date"></span>
    </div>
    <!-- /.info-box-content -->
    </div>
    <!-- /.info-box -->
    </div>
</div>
<div class="row">
    <div class="col-md-6 col-sm-6 col-12">
        <div class="info-box" style="height: 110px;">
            <span class="info-box-icon bg-danger"><i
class="fas fa-check-circle"></i></span>

            <div class="info-box-content">
                <div class="form-group">
                    <div class="custom-control
custom-checkbox">
                        <input
class="custom-control-input" type="checkbox" id="irrigation">
                        <label for="irrigation"
class="custom-control-label">Irrigation</label>
                    </div>
                    <div class="custom-control
custom-checkbox">
                        <input
class="custom-control-input" type="checkbox" id="fertilizer" checked>
                        <label for="fertilizer"
class="custom-control-label">Fertilizer</label>
                    </div>

```

```
<div class="custom-control  
custom-checkbox">  
    <input  
        class="custom-control-input" type="checkbox" id="pesticide">  
    <label for="pesticide"  
        class="custom-control-label">Pesticide</label>  
    </div>  
    </div>  
    </div>  
    </div>  
    <!-- /.info-box-content -->  
    </div>  
    <!-- /.info-box -->  
  
<div class="col-md-6 col-sm-6 col-12">  
    <div class="info-box" style="height: 110px;">  
        <span class="info-box-icon  
bg-primary"><i class="fas fa-pen"></i></span>  
  
        <div class="info-box-content">  
            <span  
                class="info-box-text">Comments</span>  
            <span class="info-box-number"><input  
                id="entry_comments" type="text" class="form-control"  
                placeholder="Comments..."></span>  
            </div>  
            <!-- /.info-box-content -->  
        </div>  
        <!-- /.info-box -->  
    </div>  
    </div>  
    <div class="row">  
        <div class="col-4">  
  
    </div>
```

```
<div class="col-4">
    <button type="button"
onclick="post_entry();" class="btn btn-block btn-success
btn-lg">Submit</button>
</div>

<div class="col-4">
</div>
<div class="text-center">
</div>
</div>

</div>
</div>
</div>

</section>
<section class="content">
<div class="container-fluid">
<div class="col-12">
<div class="row">
<div class="col-md-3 col-sm-6 col-12">
<div class="info-box" style="height: 90px;">
    <span class="info-box-icon bg-info"><i
class="far fa-list-alt"></i></span>

    <div class="info-box-content">
        <span class="info-box-text">Entries</span>
        <span class="info-box-number"
id="widget_entries">1,410</span>
    </div>

```

```
<!-- /.info-box-content -->
</div>
<!-- /.info-box -->
</div>
<!-- /.col -->
<div class="col-md-3 col-sm-6 col-12">
    <div class="info-box" style="height: 90px;">
        <span class="info-box-icon bg-success"><i
class="fas fa-water"></i></span>

        <div class="info-box-content">
            <span
class="info-box-text">Irrigation</span>
            <span class="info-box-number"
id="widget_irrigation">410</span>
        </div>
        <!-- /.info-box-content -->
    </div>
    <!-- /.info-box -->
</div>
<!-- /.col -->
<div class="col-md-3 col-sm-6 col-12">
    <div class="info-box" style="height: 90px;">
        <span class="info-box-icon bg-warning"><i
class="fas fa-poop"></i></span>

        <div class="info-box-content">
            <span
class="info-box-text">Fertilizer</span>
            <span class="info-box-number"
id="widget_fertilizer">13,648</span>
        </div>
        <!-- /.info-box-content -->
    </div>
    <!-- /.info-box -->
```

```

        </div>
        <!-- /.col -->
        <div class="col-md-3 col-sm-6 col-12">
            <div class="info-box" style="height: 90px;">
                <span class="info-box-icon bg-danger"><i
class="fas fa-spray-can"></i></span>

                    <div class="info-box-content">
                        <span
class="info-box-text">Pesticide</span>
                        <span class="info-box-number">
id="widget_pesticide">93,139</span>
                    </div>
                    <!-- /.info-box-content -->
                </div>
                <!-- /.info-box -->
            </div>
            <!-- /.col -->
        </div>
        </div>
    </div>
</section>
<section class="content">
    <div class="container-fluid">
        <div class="col-12">
            <div class="card">
                <div class="card-header">
                    <h3 class="card-title">Previous
entries</h3>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
                    <!-- <small class="badge badge-warning"><i
class="fas fa-calendar-day"></i> <input type="date">
                </small>
-->

                <div class="card-tools">

```

```
        <button type="button" class="btn btn-tool"
data-card-widget="collapse" data-toggle="tooltip" title="Collapse">
        <i class="fas fa-minus"></i></button>
    </div>

</div>
<div class="card-body">
    <div class="row">
        <div class="col-12">
            <div class="card">

                <!-- /.card-header -->
                <div class="card-body table-responsive
p-0">
                    <table class="table table-hover
text-nowrap">
                        <thead>
                            <tr>
                                <th>Name</th>
                                <th>Date</th>
                                <th>Comments</th>
                                <th>Fertilizer</th>
                                <th>Irrigation</th>
                                <th>Pesticide</th>
                            </tr>
                        </thead>
                        <tbody id="table_entries">
                            </tbody>
                    </table>
                </div>
                <!-- /.card-body -->
            </div>
            <!-- /.card -->
        </div>
    </div>
```

```

        </div>
        <!-- /.content -->
    </div>
    <!-- /.content-wrapper -->

    <!-- Control Sidebar -->
    <aside class="control-sidebar control-sidebar-dark">
        <!-- Control sidebar content goes here -->
    </aside>
    <!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->

<script src="plugins/jquery/jquery.min.js"></script>
<script
src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<script
src="plugins/overlayScrollbars/js/jquery.overlayScrollbars.min.js"></s
cript>
<script src="dist/js/demo.js"></script>
<script src="js/map.js"></script>
<script src="js/cookie.js"></script>
<script>
    //getting user farmdetails from the db
    document.getElementById("myfarms").onclick =
function() {
        fetchfarms_dummy(15);
    };

    //set username in the sidebar
    window.onload = function() {
        var user_name = getCookie('username');

```

```

var tag = "<a href='#' class='d-block'>" + user_name
+ "</a>"
    $("#username").html(tag);
var farm_id = getCookie('farm_id');
var user_key = getCookie('user_key');
var farm_name = getCookie('farm_name');
$("#farm_name").html(farm_name);
$.ajax({
    url: 'http://127.0.0.1:5010/previousentry',
    type: 'POST',
    cors: true,
    headers: {
        'Access-Control-Allow-Origin': '*',
    },
    contentType: 'application/json',
    data: JSON.stringify({
        "user_key": user_key,
        "farm_id": farm_id,
    }),
    success: function(output) {
        console.log(output);
        if (output["status"] == "success") {
            farm_info = output["user_info"]
            var farm_string = "<tr> <td>" + farm_info[2]
+ "</td> <td>" + farm_info[7] + "</td> <td>" + farm_info[8] + "</td>
<td>" + farm_info[4] + "</td> <td>" + farm_info[5] + "</td> <td>" +
farm_info[6] + "</td> </tr>"
                $("#table_entries").html(farm_string);
        } else {
            farm_info = output["user_info"]
            var farm_string = "<tr> <td> - </td>
<td>-</td> <td>--</td> <td>-</td> <td>-</td> </tr>"
                $("#table_entries").html(farm_string);
        }
    }
}

```

```

    });
    $.ajax({
        url: 'http://127.0.0.1:5010/widgets',
        type: 'POST',
        cors: true,
        headers: {
            'Access-Control-Allow-Origin': '*',
        },
        contentType: 'application/json',
        data: JSON.stringify({
            "user_key": user_key,
            "farm_id": farm_id,
        }),
        success: function(output) {
            console.log(output);
            if (output["status"] == "success") {
                var wid_info = "<p>" +
                    output["no_of_entries"] + "</p>" +
                    $("#widget_entries").html(wid_info);
                wid_info = "<p>" + output["irrigation"] +
                    "</p>" +
                    $("#widget_irrigation").html(wid_info);
                wid_info = "<p>" + output["fertilizer"] +
                    "</p>" +
                    $("#widget_fertilizer").html(wid_info);
                wid_info = "<p>" + output["pesticide"] +
                    "</p>" +
                    $("#widget_pesticide").html(wid_info);
            } else {
                var wid_info = "<p>" +
                    output["no_of_entries"] + "</p>" +
                    $("#widget_entries").html(wid_info);
                wid_info = "<p> no records found</p>" +
                    $("#widget_irrigation").html(wid_info);
                $("#widget_fertilizer").html(wid_info);
            }
        }
    });
}

```

```

        $("#" + id).html(data);
    }
}
});
};

function myfarms_id(id) {
    console.log($("#" + id).attr('id'));
    var farmid = $("#" + id).attr('id')
    setCookie('farm_id', farmid, 1);
    window.location.href = 'myfarms.html'
}

function post_entry() {
    var entry_name = $("#entry_name").val();
    var date = new Date($("#entry_date").val());
    var day = date.getDate();
    var month = date.getMonth() + 1;
    var year = date.getFullYear();
    date_string = [year, month, day].join('-');
    var comments = $("#entry_comments").val();
    var irrigation = $("#irrigation").is(":checked") ? true :
false;

    var fertilizer = $("#fertilizer").is(":checked") ? true :
false;

    var pesticide = $("#pesticide").is(":checked") ? true :
false;
    console.log(pesticide);
    var date = $("#entry_comments").val();
    var farm_id = getCookie('farm_id');
    var user_key = getCookie('user_key');
    console.log(irrigation, fertilizer, pesticide)
}

```

```
$.ajax({
    url: 'http://127.0.0.1:5010/postentry',
    type: 'POST',
    cors: true,
    headers: {
        'Access-Control-Allow-Origin': '*',
    },
    contentType: 'application/json',
    data: JSON.stringify({
        "user_key": user_key,
        "name": entry_name,
        "date": date_string,
        "farm_id": farm_id,
        "pesticide": pesticide,
        "fertilizer": fertilizer,
        "irrigation": irrigation,
        "comments": comments
    }),
    success: function(output) {
        console.log(output);
        if (output["status"] == "success") {
            location.reload();
        }
    }
});
document.getElementById("myfarms").onclick =
function() {
    location.href = "myfarms.html";
};
document.getElementById("schedule").onclick =
function() {
    location.href = "schedule.html";
};
```

```
        };
    </script>
</body>
</html>
```

schedule.html

```
____<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
    <title>Schedule</title>

    <!--Openlayers, Turf and leaflet-->
    <script
src="https://cdn.rawgit.com/openlayers/openlayers.github.io/master/e
n/v4.6.5/build/ol.js"></script>
    <link rel="stylesheet"
href="https://openlayers.org/en/v4.6.5/css/ol.css" type="text/css">
    <script
src="https://cdn.jsdelivr.net/npm/@turf/turf@5/turf.min.js"></script>
    <link rel="stylesheet"
href="https://unpkg.com/leaflet@1.0.3/dist/leaflet.css"
integrity="sha512-07l2e+7D8p6he1SIM+1twR5TlrhUQn9+l6yjqD53J
QjFiMf8EtC93ty0/5vJTZGF8aAocvHYNEDJajGdNx1lsQ=="
crossorigin="" />
    <script src="https://unpkg.com/leaflet@1.0.3/dist/leaflet.js"
integrity="sha512-A7vV8lFFih/D732iSSKi20u/ooOfj/AGehOKq0f4vLT1
Zr2Y+RX7C+w8A1gaSasGtRUZpF/NZgzSAu4/Gc41Lg=="
crossorigin=""></script>

    <!--SweetAlert-->
```

```
<script
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/7.29.2/
sweetalert2.all.js"></script>
<script
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/s
weetalert2.min.js"></script>
<link rel="stylesheet" type="text/css"
href="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/
sweetalert2.css">

<!-- Google Font: Source Sans Pro -->
<link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300
,400,400i,700&display=fallback">
<!-- Font Awesome -->
<link rel="stylesheet"
href="plugins/fontawesome-free/css/all.min.css">
<!-- overlayScrollbars -->
<link rel="stylesheet"
href="plugins/overlayScrollbars/css/OverlayScrollbars.min.css">
<style>
.myButton {
    padding: 30px;
    display: block;
    background-color: green;
    color: white;
    text-align: center;
    position: absolute;
    top: 10px;
    right: 10px;
}

```

```
</style>
<script>
    function logout() {
        eraseCookie("user_name");
        eraseCookie("user_key");
        window.location.href = 'login.html';
    }
</script>
</head>

<body class="hold-transition sidebar-mini layout-fixed">
    <!-- Site wrapper -->
    <div class="wrapper">
        <!-- Navbar -->
        <nav class="main-header navbar navbar-expand navbar-white
        navbar-light">
            <!-- Left navbar links -->
            <ul class="navbar-nav">
                <li class="nav-item">
                    <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                </li>
                <li class="nav-item d-none d-sm-inline-block">
                    <a href="about.html" class="nav-link">About</a>
                </li>
                <li class="nav-item d-none d-sm-inline-block">
                    <a href="about.html#contact" class="nav-link">Contact</a>
                </li>
            </ul>

            <!-- Right navbar links -->
            <ul class="navbar-nav ml-auto">
                <li class="nav-item dropdown">
```

```

<a class="nav-link" data-toggle="dropdown" href="#">  

    <div onclick="logout()">  

        <i class="fas fa-sign-out-alt"></i>  

    </div>  

</a>  

</li>  

</ul>  

</nav>  

<!-- /.navbar -->

<!-- Main Sidebar Container -->
<aside class="main-sidebar sidebar-dark-primary elevation-4">  

    <!-- Brand Logo -->  

    <a href="#" class="brand-link">  

        <span class="brand-text font-weight-light">Farm  

            Aid</span>  

    </a>

    <!-- Sidebar -->  

    <div class="sidebar">  

        <!-- Sidebar user (optional) -->  

        <div class="user-panel mt-3 pb-3 mb-3 d-flex">  

            <div class="image">  

            </div>  

            <div id="username" class="info"></div>  

        </div>

        <!-- Sidebar Menu -->  

        <nav class="mt-2">  

            <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">

```

```
<li class="nav-item has-treeview">
    <a href="myfarms.html" class="nav-link"
id="myfarms">
        <i class="nav-icon fa fa-eye"></i>
        <p>
            My Farms
            <i class="right fas fa-angle-left"></i>
        </p>
    </a>
    <ul class="nav nav-treeview">
        <li class="nav-item">
            <a href="#" class="nav-link">
                <i class="fas fa-leaf nav-icon"></i>
                <p>Ex: Farm 1</p>
            </a>
        </li>
    </ul>
</li>
<li class="nav-item has-treeview">
    <a href="index.html" class="nav-link" id="firstpage">
        <i class="nav-icon fas fa-edit"></i>
        <p>
            Draw Farm
        </p>
    </a>
</li>
<li class="nav-item has-treeview">
    <a href="schedule.html" class="nav-link active"
id="schedule">
        <i class="nav-icon fa fa-calendar"></i>
        <p>
            Schedule
        </p>
    </a>
```

```
        </li>
    </ul>
</nav>
<!-- /.sidebar-menu -->
</div>
<!-- /.sidebar -->
</aside>

<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <section class="content-header">
        <div class="container-fluid">
            <div class="row mb-2">
                <div class="col-sm-6">
                    <h1 id="pending">Pending Tasks</h1>
                </div>
                <div class="col-sm-6">
                    <ol class="breadcrumb float-sm-right">
                        <li class="breadcrumb-item">Schedule</li>
                        <li class="breadcrumb-item active">Pending</li>
                    </ol>
                </div>
            </div>
        </div>
        <!-- /.container-fluid -->
    </section>
    <section class="content" id="task_pend">
    </section>
    <section class="content-header">
        <div class="container-fluid">
            <div class="row mb-2">
                <div class="col-sm-6">
                    <h1 id="pending">Noted Tasks</h1>
                </div>
```

```
<div class="col-sm-6">
    <ol class="breadcrumb float-sm-right">
        <li class="breadcrumb-item">Schedule</li>
        <li class="breadcrumb-item active">Pending</li>
    </ol>
</div>
</div>
</div>
<!-- /.container-fluid -->
</section>
<section class="content" id="task_rem">
</section>
</div>
</div>
```

```
<div class="container-fluid">
</div>
</section>
<!-- /.content -->
</div>
<!-- /.content-wrapper -->
```

```
<!-- Control Sidebar -->
<aside class="control-sidebar control-sidebar-dark">
    <!-- Control sidebar content goes here -->
</aside>
<!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->
<script>
    document.getElementById("myfarms").onclick = function() {
        location.href = "myfarms.html";
    };
    document.getElementById("schedule").onclick = function() {
```

```
        location.href = "schedule.html";
    };
    document.getElementById("firstpage").onclick = function() {
        location.href = "index.html";
    };
</script>
```

```
<!-- jQuery -->
<script src="plugins/jquery/jquery.min.js"></script>
<!-- Bootstrap 4 -->
<script src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<!-- overlayScrollbars -->
<script
src="plugins/overlayScrollbars/js/jquery.overlayScrollbars.min.js"></s
cript>
<script src="dist/js/demo.js"></script>
<!!--<script src="js/map.js"></script>!-->
<script src="js/cookie.js"></script>

<script>
    //set username in the sidebar
    function deltask(tid) {

        console.log('In deltask ', tid)
        $.ajax({
            url: 'http://127.0.0.1:5010/deltask?taskid=' + tid,
            type: 'POST',
            cors: true,
            headers: {
                'Access-Control-Allow-Origin': '*',
            },
            contentType: 'application/json',
            success: function(data) {
```

```

        console.log(data);
    }
});

window.location.reload();

}

window.onload = function() {

    var ht_text, ht_text2;
    var user_name = getCookie('username');
    var user_id = getCookie('user_key');
    console.log(user_name);
    var tag = "<a href='#' class='d-block>" + user_name + "</a>""
    $("#username").html(tag);

    $.ajax({
        url: 'http://127.0.0.1:5010/fetchtasks?userid=' + user_id,
        type: 'POST',
        cors: true,
        headers: {
            'Access-Control-Allow-Origin': '*',
        },
        contentType: 'application/json',
        success: function(data) {
            console.log(data.pending.length);
            //console.log(data.pending[0]);
            for (let i = 0; i < data.pending.length; i++) {
                ht_text = '<div class="row"> <div class="col-12"> <div
class="card"> <div class="card-header"> <h3 class="card-title">' +
                data.pending[i].title + '</h3>      <small class="badge
badge-warning"><i class="far fa-clock"></i> ' + data.pending[i].seton
+ '</small> <div class="card-tools"> <button type="button" class="btn
btn-tool" data-card-widget="collapse" data-toggle="tooltip"
title="Collapse"> <i class="fas fa-minus"></i></button> </div> </div>

```

```

<div class="card-body"> <div class="row"> <div class="col-md-6
col-sm-6 col-12"> <div class="info-box"> <span class="info-box-icon
bg-info"><i class="fas fa-leaf"></i></span> <div
class="info-box-content"> <span class="info-box-text">Farm
Name</span> <span class="info-box-number">' +
data.pending[i].name + ' (' + data.pending[i].farmid + ')' + '</span>
</div> </div> <div class="col-md-6 col-sm-6 col-12"> <div
class="info-box"> <span class="info-box-icon bg-warning"><i
class="fas fa-bell"></i></span> <div class="info-box-content"> <span
class="info-box-text">Task ID</span> <span
class="info-box-number">' + data.pending[i].tid + '</span> </div>
</div> </div> <div class="row"> <div class="col-md-6 col-sm-6
col-12"> <div class="info-box"> <span class="info-box-icon
bg-success"><i class="fas fa-edit"></i></span> <div
class="info-box-content"> <span
class="info-box-text">Description</span> <span
class="info-box-number">' + data.pending[i].desc + '</span> </div>
</div> </div> <div class="col-md-6 col-sm-6 col-12"> <div
class="info-box"> <span class="info-box-icon bg-danger"><i
class="fas fa-tasks"></i></span> <div class="info-box-content">
<span class="info-box-text">Priority</span> <span
class="info-box-number">' + data.pending[i].priority + '</span> </div>
</div> </div> </div> <div class="card-footer"> <form method
="post" action="status"> <button type="button" class="btn
btn-primary" name="accept" onclick="deltask(' + data.pending[i].tid +
')"> Done </button> </form> </div> </div> </div> <br>;
document.getElementById("task_pend").innerHTML
+= ht_text;
//console.log(ht_text)
}

console.log(data.remaining.length);
//console.log(data.pending[0]);
for (let i = 0; i < data.remaining.length; i++) {

```

```

ht_text2 = '<div class="row"> <div class="col-12">
<div class="card"> <div class="card-header"> <h3 class="card-title">' +
    data.remaining[i].title + '</h3>   <small class="badge badge-warning"><i class="far fa-clock"></i> ' +
    data.remaining[i].seton + '</small> <div class="card-tools"> <button type="button" class="btn btn-tool" data-card-widget="collapse" data-toggle="tooltip" title="Collapse"> <i class="fas fa-minus"></i></button> </div> </div> <div class="card-body"> <div class="row"> <div class="col-md-6 col-sm-6 col-12"> <div class="info-box"> <span class="info-box-icon bg-info"><i class="fas fa-leaf"></i></span> <div class="info-box-content"> <span class="info-box-text">Farm Name</span> <span class="info-box-number">' + data.remaining[i].name + ' (' +
        data.remaining[i].farmid + ')' + '</span> </div> </div> </div> <div class="col-md-6 col-sm-6 col-12"> <div class="info-box"> <span class="info-box-icon bg-warning"><i class="fas fa-bell"></i></span> <div class="info-box-content"> <span class="info-box-text">Task ID</span> <span class="info-box-number">' + data.remaining[i].tid + '</span> </div> </div> </div> <div class="row"> <div class="col-md-6 col-sm-6 col-12"> <div class="info-box"> <span class="info-box-icon bg-success"><i class="fas fa-edit"></i></span> <div class="info-box-content"> <span class="info-box-text">Description</span> <span class="info-box-number">' + data.remaining[i].desc + '</span> </div> </div> <div class="col-md-6 col-sm-6 col-12"> <div class="info-box"> <span class="info-box-icon bg-danger"><i class="fas fa-tasks"></i></span> <div class="info-box-content"> <span class="info-box-text">Priority</span> <span class="info-box-number">' + data.remaining[i].priority + '</span> </div> </div> </div> <div class="card-footer"> <form method="post" action="status"> <button type="button" class="btn btn-primary" name="accept" onclick="deltask(' + data.remaining[i].tid + ')> Done </button> </form> </div> </div> </div> </div><br>';
    document.getElementById("task_rem").innerHTML += ht_text2;

```

```

        //console.log(ht_text)
    }
}
});

};

function myfarms_id(id) {
    console.log($(id).attr('id'));
    var id_with_name = $(id).attr('id');
    str_arr = id_with_name.split("/");
    var farmid = str_arr[0]
    var set_farmname = str_arr[1]
    setCookie('farm_id', farmid, 1);
    setCookie('farm_name', set_farmname, 1);
    window.location.href = 'myfarms.html'
}
</script>
</body>
</html>
```

addtask.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
    <title>Add New Task</title>

    <!--Openlayers, Turf and leaflet-->
```

```
<script
src="https://cdn.rawgit.com/openlayers/openlayers.github.io/master/e
n/v4.6.5/build/ol.js"></script>
<link rel="stylesheet"
href="https://openlayers.org/en/v4.6.5/css/ol.css" type="text/css">
<script
src="https://cdn.jsdelivr.net/npm/@turf/turf@5/turf.min.js"></script>
<link rel="stylesheet"
href="https://unpkg.com/leaflet@1.0.3/dist/leaflet.css"
integrity="sha512-07l2e+7D8p6he1SIM+1twR5TlrhUQn9+l6yjqD53J
QjFiMf8EtC93ty0/5vJTZGF8aAocvHYNEDJajGdNx1lsQ=="
crossorigin="" />
<script src="https://unpkg.com/leaflet@1.0.3/dist/leaflet.js"
integrity="sha512-A7vV8lFfih/D732iSSKi20u/ooOfj/AGehOKq0f4vLT1
Zr2Y+RX7C+w8A1gaSasGtRUZpF/NZgzSAu4/Gc41Lg=="
crossorigin=""></script>

<!--SweetAlert-->
<script
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/7.29.2/
sweetalert2.all.js"></script>
<script
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/s
weetalert2.min.js"></script>
<link rel="stylesheet" type="text/css"
href="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/
sweetalert2.css">

<!-- Google Font: Source Sans Pro -->
```

```
<link rel="stylesheet"
      href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300
      ,400,400i,700&display=fallback">
    <!-- Font Awesome -->
    <link rel="stylesheet"
      href="plugins/fontawesome-free/css/all.min.css">
    <!-- overlayScrollbars -->
    <link rel="stylesheet"
      href="plugins/overlayScrollbars/css/OverlayScrollbars.min.css">
<style>
.myButton {
  padding: 30px;
  display: block;
  background-color: green;
  color: white;
  text-align: center;
  position: absolute;
  top: 10px;
  right: 10px;
}
</style>
<script>
  function logout() {
    eraseCookie("user_name");
    eraseCookie("user_key");
    window.location.href = 'login.html';
  }
</script>
</head>

<body class="hold-transition sidebar-mini layout-fixed">
  <!-- Site wrapper -->
  <div class="wrapper">
    <!-- Navbar -->
```

```
<nav class="main-header navbar navbar-expand navbar-white
navbar-light">
    <!-- Left navbar links -->
    <ul class="navbar-nav">
        <li class="nav-item">
            <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
        </li>
        <li class="nav-item d-none d-sm-inline-block">
            <a href="about.html" class="nav-link">About</a>
        </li>
        <li class="nav-item d-none d-sm-inline-block">
            <a href="about.html#contact" class="nav-link">Contact</a>
        </li>
    </ul>

    <!-- Right navbar links -->
    <ul class="navbar-nav ml-auto">
        <li class="nav-item dropdown">
            <a class="nav-link" data-toggle="dropdown" href="#">
                <div onclick="logout()">
                    <i class="fas fa-sign-out-alt"></i>
                </div>
            </a>
        </li>
    </ul>
</nav>
<!-- /.navbar -->

<!-- Main Sidebar Container -->
<aside class="main-sidebar sidebar-dark-primary elevation-4">
    <!-- Brand Logo -->
    <a href="#" class="brand-link">
```



```
        <i class="fas fa-leaf nav-icon"></i>
        <p>Ex: Farm 1</p>
    </a>
</li>
</ul>
</li>
<li class="nav-item has-treeview">
    <a href="index.html" class="nav-link" id="firstpage">
        <i class="nav-icon fas fa-edit"></i>
        <p>
            Draw Farm
        </p>
    </a>
</li>
<li class="nav-item has-treeview">
    <a href="schedule.html" class="nav-link"
id="schedule">
        <i class="nav-icon fa fa-calendar"></i>
        <p>
            Schedule
        </p>
    </a>
    <ul class="nav nav-treeview">
        <li class="nav-item">
            <a href="addtask.html" class="nav-link">
                <i class="fa fa-plus nav-icon"></i>
                <p>Add Task</p>
            </a>
        </li>
    </ul>
</li>
</ul>
</nav>
<!-- /.sidebar-menu -->
</div>
```



```
<label  
for="exampleInputEmail1">Title</label>  
    <input type="text" class="form-control"  
id="titleinp" placeholder="Enter Task Title">  
        </div>  
        <div class="form-group">  
            <label for="example-date-input" class="col-2  
col-form-label">Date</label>  
            <div class="col-12">  
                <input class="form-control" type="date"  
id="dateinp">  
            </div>  
        </div>  
        <div class="form-group">  
            <label>Select Priority</label>  
            <select class="form-control select2"  
id="priorityinp">  
                <option>High</option>  
                <option>Medium</option>  
                <option>Low</option>  
            </select>  
            </div>  
            <div class="form-group">  
                <label>Write Description</label>  
                <textarea class="form-control" rows="3"  
placeholder="Enter ..." id="descinp"></textarea>  
            </div>  
        </div>  
        <!-- /.card-body -->  
  
        <div class="card-footer">  
            <button type="button" class="btn btn-primary"  
id="submitbtn" onclick="call_add()">Submit</button>  
        </div>  
    </form>
```

```
        </div>
        <!-- /.card -->
    </div>
</div>

<div class="container-fluid">
</div>
</section>
<!-- /.content -->
</div>
<!-- /.content-wrapper -->

<!-- Control Sidebar -->
<aside class="control-sidebar control-sidebar-dark">
    <!-- Control sidebar content goes here -->
</aside>
<!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->
<script>
    document.getElementById("myfarms").onclick = function() {
        location.href = "myfarms.html";
    };
    document.getElementById("schedule").onclick = function() {
        location.href = "schedule.html";
    };
    document.getElementById("firstpage").onclick = function() {
        location.href = "index.html";
    };
</script>
<!-- jQuery -->
<script src="plugins/jquery/jquery.min.js"></script>
<!-- Bootstrap 4 -->
<script src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
```

```

<!-- overlayScrollbars -->
<script
src="plugins/overlayScrollbars/js/jquery.overlayScrollbars.min.js"></script>
<script src="dist/js/demo.js"></script>
<!--<script src="js/map.js"></script>!-->
<script src="js/cookie.js"></script>
<!--<script src="js/task.js"></script>>!-->

<script>
//set username in the sidebar
window.onload = function() {
    var user_name = getCookie('username');
    console.log(user_name);
    var tag = "<a href='#' class='d-block'>" + user_name + "</a>"
    $("#username").html(tag);
};

function call_add() {

    farmid = getCookie("farm_id");
    console.log(farmid);
    var userid = getCookie('user_key');
    console.log("Here")
    var title = $("#titleinp").val();
    var date = $("#dateinp").val();
    var priority = $("#priorityinp").val();
    var description = $("#descinp").val();

    console.log('http://127.0.0.1:5010/newtask')
    var jsonstr = "{\"seton\":\"" + "\"" + date + "\"" + "," + "\"about\":" +
+ "\"" + description + "\"" + "," + "\"priority\":" + "\"" + priority + "\"" + "," +
+ "\"title\":" + "\"" + title + "\"" + "}"
    console.log(jsonstr);
    $.ajax({

```

```

        url: 'http://127.0.0.1:5010/newtask?farmid=' + farmid +
        '&userid=' + userid,
        type: 'POST',
        cors: true,
        headers: {
            'Access-Control-Allow-Origin': '*',
        },
        contentType: 'application/json',
        data: jsonstr,
        success: function(data) {
            console.log(data);
        }
    );
    window.location.href = "schedule.html";
}

function myfarms_id(id) {

    console.log($(id).attr('id'));
    var id_with_name = $(id).attr('id');
    str_arr = id_with_name.split("/");
    var farmid = str_arr[0]
    var set_farmname = str_arr[1]
    setCookie('farm_id', farmid, 1);
    setCookie('farm_name', set_farmname, 1);
    //window.location.href = 'myfarms.html'
}
</script>
</body>
</html>

```

[about.html](#)

_____<!DOCTYPE html>

```
<html lang="en">

<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1">
    <title>About</title>

    <!--Openlayers, Turf and leaflet-->
    <script
src="https://cdn.rawgit.com/openlayers/openlayers.github.io/master/e
n/v4.6.5/build/ol.js"></script>
    <link rel="stylesheet"
href="https://openlayers.org/en/v4.6.5/css/ol.css" type="text/css">
    <script
src="https://cdn.jsdelivr.net/npm/@turf/turf@5/turf.min.js"></script>
    <link rel="stylesheet"
href="https://unpkg.com/leaflet@1.0.3/dist/leaflet.css"
integrity="sha512-07l2e+7D8p6he1SIM+1twR5TlrhUQn9+l6yjqD53J
QjFiMf8EtC93ty0/5vJTZGF8aAocvHYNEDJajGdNx1lsQ=="
crossorigin="" />
    <script src="https://unpkg.com/leaflet@1.0.3/dist/leaflet.js"
integrity="sha512-A7vV8lFFih/D732iSSKi20u/ooOfj/AGehOKq0f4vLT1
Zr2Y+RX7C+w8A1gaSasGtRUZpF/NZgzSAu4/Gc41Lg=="
crossorigin=""></script>

    <!--SweetAlert-->
    <script
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/7.29.2/
sweetalert2.all.js"></script>
    <script
src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
```

```
<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/sweetalert2.min.js"></script>
<link rel="stylesheet" type="text/css"
href="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.6.6/sweetalert2.css">

<!-- Google Font: Source Sans Pro -->
<link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">
<!-- Font Awesome -->
<link rel="stylesheet"
href="plugins/fontawesome-free/css/all.min.css">
<!-- overlayScrollbars -->
<link rel="stylesheet"
href="plugins/overlayScrollbars/css/OverlayScrollbars.min.css">
<style>
.myButton {
    padding: 30px;
    display: block;
    background-color: green;
    color: white;
    text-align: center;
    position: absolute;
    top: 10px;
    right: 10px;
}
.responsive {
    width: 100%;
    max-width: 600px;
    height: auto;
    display: block;
    margin-left: auto;
```

```
        margin-right: auto;
    }
</style>
<script>
    function logout() {
        eraseCookie("user_name");
        eraseCookie("user_key");
        window.location.href = 'login.html';
    }
</script>
</head>

<body class="hold-transition sidebar-mini layout-fixed">
    <!-- Site wrapper -->
    <div class="wrapper">
        <!-- Navbar -->
        <nav class="main-header navbar navbar-expand navbar-white navbar-light">
            <!-- Left navbar links -->
            <ul class="navbar-nav">
                <li class="nav-item">
                    <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                </li>
                <li class="nav-item d-none d-sm-inline-block">
                    <a href="#" class="nav-link">About</a>
                </li>
                <li class="nav-item d-none d-sm-inline-block">
                    <a href="#" class="nav-link">Contact</a>
                </li>
            </ul>

            <!-- Right navbar links -->
            <ul class="navbar-nav ml-auto">
```

```
<li class="nav-item dropdown">
    <a class="nav-link" data-toggle="dropdown" href="#">
        <div onclick="logout()">
            <i class="fas fa-sign-out-alt"></i>
        </div>
    </a>
</li>
</ul>
</nav>
<!-- /.navbar -->

<!-- Main Sidebar Container -->
<aside class="main-sidebar sidebar-dark-primary elevation-4">
    <!-- Brand Logo -->
    <a href="#" class="brand-link">
        
        <span class="brand-text font-weight-light">Farm
Aid</span>
    </a>

    <!-- Sidebar -->
    <div class="sidebar">
        <!-- Sidebar user (optional) -->
        <div class="user-panel mt-3 pb-3 mb-3 d-flex">
            <div class="image">
                
            </div>
            <div id="username" class="info"></div>
        </div>

        <!-- Sidebar Menu -->
        <nav class="mt-2">
```

```

<ul class="nav nav-pills nav-sidebar flex-column"
data-widget="treeview" role="menu" data-accordion="false">
    <!-- Add icons to the links using the .nav-icon class
    with font-awesome or any other icon font library -->
    <li class="nav-item has-treeview">
        <a href="myfarms.html" class="nav-link"
id="myfarms">
            <i class="nav-icon fa fa-eye"></i>
            <p>
                My Farms
                <i class="right fas fa-angle-left"></i>
            </p>
        </a>
        <ul class="nav nav-treeview">
            <li class="nav-item">
                <a href="#" class="nav-link">
                    <i class="fas fa-leaf nav-icon"></i>
                    <p>Ex: Farm 1</p>
                </a>
            </li>
        </ul>
    </li>
    <li class="nav-item has-treeview">
        <a href="index.html" class="nav-link" id="firstpage">
            <i class="nav-icon fas fa-edit"></i>
            <p>
                Draw Farm
            </p>
        </a>
    </li>
    <li class="nav-item has-treeview">
        <a href="schedule.html" class="nav-link"
id="schedule">
            <i class="nav-icon fa fa-calendar"></i>
            <p>

```

```
        Schedule
    </p>
</a>
</li>
</ul>
</nav>
<!-- /.sidebar-menu -->
</div>
<!-- /.sidebar -->
</aside>

<!-- Content Wrapper. Contains page content -->
<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <section class="content-header">
        <div class="container-fluid">
            <div class="row mb-2">
                <div class="col-sm-6">
                    <h1>Farm Aid</h1>
                </div>
                <div class="col-sm-6">
                    <ol class="breadcrumb float-sm-right">
                        <li class="breadcrumb-item"><a href="#">About</a></li>
                        <li class="breadcrumb-item ">Farm Aid</li>
                    </ol>
                </div>
            </div>
        </div>
        <!-- /.container-fluid -->
    </section>

    <!-- Main content -->
    <section class="content">
```

```
<div class="container-fluid">
  <div class="row" id="about">
    
  </div><br>
  <div class="row">
    <div class="col-12">
      <!-- Default box -->
      <div class="card" id="api">
        <div class="card-header">
          <h3 class="card-title">About</h3>

          <div class="card-tools">
            </div>
          </div>
          <div class="card-body">
            <p>Farm Aid is a Web Application developed
to assist farmers in managing their farms. A Farm can be drawn using
the Draw Farm feature, name the drawn farm and select the crop.
Logs can be made for the farm, tasks can be
            scheduled. A 7 day weather forecast is also
available to be prepared in case of unforseen shortcomings.
            </p>
            <p>All you have to do is register using your
mobile number and verify the OTP, using which you can log in and
start drawing farms.
            </p>
          </div>
          <!-- /.card-body -->
        </div>
        <!-- /.card -->
      </div>
    </div>
  </div>
```

```
</section>
<!-- /.content -->
<section class="content-header">
    <div class="container-fluid">
        <div class="row mb-2">
            <div class="col-sm-6">
                <h1>Contact Us</h1>
            </div>
            <div class="col-sm-6">
                <ol class="breadcrumb float-sm-right">
                    <li class="breadcrumb-item"><a href="#">Contact Us</a></li>
                    <li class="breadcrumb-item ">Farm Aid</li>
                </ol>
            </div>
        </div>
        <!-- /.container-fluid -->
    </div>
    <!-- /.content-header -->
</section>
<div class="container-fluid">
    <div class="row" id="contact">
        <div class="col-md-6">
            <div class="info-box">
                <span class="info-box-icon bg-info elevation-1"><i class="fas fa-address-card"></i></span>

                <div class="info-box-content">
                    <span class="info-box-text">Balaji</span>
                    <span
class="info-box-number">balajiramakrishnan07@gmail.com</span>
                </div>
                <!-- /.info-box-content -->
            </div>
            <!-- /.info-box -->
        </div>
    <!-- /.container-fluid -->
</div>
```

```
<div class="col-md-6">
    <div class="info-box">
        <span class="info-box-icon bg-info elevation-1"><i
class="fas fa-address-card"></i></span>

        <div class="info-box-content">
            <span class="info-box-text">Rithish</span>
            <span
class="info-box-number">rithishramachandran09@gmail.com</span>
        </div>
        <!-- /.info-box-content -->
    </div>
    <!-- /.info-box -->
</div>
</div>
</div>

<!-- Control Sidebar -->
<aside class="control-sidebar control-sidebar-dark">
    <!-- Control sidebar content goes here -->
</aside>
<!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->
<script>
    document.getElementById("myfarms").onclick = function() {
        location.href = "myfarms.html";
    };
    document.getElementById("schedule").onclick = function() {
        location.href = "schedule.html";
    };
    document.getElementById("firstpage").onclick = function() {
        location.href = "index.html";
    };
</script>
```

```
};  
</script>
```

```
<!-- jQuery -->  
<script src="plugins/jquery/jquery.min.js"></script>  
<!-- Bootstrap 4 -->  
<script src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>  
<!-- overlayScrollbars -->  
<script  
src="plugins/overlayScrollbars/js/jquery.overlayScrollbars.min.js"></s  
cript>  
    <script src="dist/js/demo.js"></script>  
    <!--<script src="js/map.js"></script>!-->  
    <script src="js/cookie.js"></script>  
  
<script>  
    //set username in the sidebar  
    function deltask(tid) {  
  
        console.log('In deltask ', tid)  
        $.ajax({  
            url: 'http://127.0.0.1:5010/deltask?taskid=' + tid,  
            type: 'POST',  
            cors: true,  
            headers: {  
                'Access-Control-Allow-Origin': '*',  
            },  
            contentType: 'application/json',  
            success: function(data) {  
                console.log(data);  
            }  
        });  
        window.location.reload();
```

```
}
```

```
window.onload = function() {

    var ht_text, ht_text2;
    var user_name = getCookie('username');
    var user_id = 202;
    console.log(user_name);
    var tag = "<a href='#' class='d-block'>" + user_name + "</a>"
    $('#username").html(tag);

    $.ajax({
        url: 'http://127.0.0.1:5010/fetchtasks?userid=' + user_id,
        type: 'POST',
        cors: true,
        headers: {
            'Access-Control-Allow-Origin': '*',
        },
        contentType: 'application/json',
        success: function(data) {
            console.log(data.pending.length);
            //console.log(data.pending[0]);
            for (let i = 0; i < data.pending.length; i++) {
                ht_text = '<div class="row"> <div class="col-12"> <div
class="card"> <div class="card-header"> <h3 class="card-title">' +
data.pending[i].title + '</h3>      <small class="badge
badge-warning"><i class="far fa-clock"></i> ' + data.pending[i].seton
+ '</small> <div class="card-tools"> <button type="button" class="btn
btn-tool" data-card-widget="collapse" data-toggle="tooltip"
title="Collapse"> <i class="fas fa-minus"></i></button> </div> </div>
<div class="card-body"> <div class="row"> <div class="col-md-6
col-sm-6 col-12"> <div class="info-box"> <span class="info-box-icon
bg-info"><i class="fas fa-leaf"></i></span> <div
class="info-box-content"> <span class="info-box-text">Farm
```

```

Name</span> <span class="info-box-number">' +
data.pending[i].name + ' (' + data.pending[i].farmid + ')' + '</span>
</div> </div> </div> <div class="col-md-6 col-sm-6 col-12"> <div
class="info-box"> <span class="info-box-icon bg-warning"><i
class="fas fa-bell"></i></span> <div class="info-box-content"> <span
class="info-box-text">Task ID</span> <span
class="info-box-number">' + data.pending[i].tid + '</span> </div>
</div> </div> <div class="row"> <div class="col-md-6 col-sm-6
col-12"> <div class="info-box"> <span class="info-box-icon
bg-success"><i class="fas fa-edit"></i></span> <div
class="info-box-content"> <span
class="info-box-text">Description</span> <span
class="info-box-number">' + data.pending[i].desc + '</span> </div>
</div> </div> <div class="col-md-6 col-sm-6 col-12"> <div
class="info-box"> <span class="info-box-icon bg-danger"><i
class="fas fa-tasks"></i></span> <div class="info-box-content">
<span class="info-box-text">Priority</span> <span
class="info-box-number">' + data.pending[i].priority + '</span> </div>
</div> </div> </div> <div class="card-footer"> <form method
="post" action="status"> <button type="button" class="btn
btn-primary" name="accept" onclick="deltask(' + data.pending[i].tid +
')"> Done </button> </form> </div> </div> </div> </div><br>;
document.getElementById("task_pend").innerHTML
+= ht_text;
//console.log(ht_text)
}

console.log(data.remaining.length);
//console.log(data.pending[0]);
for (let i = 0; i < data.remaining.length; i++) {
    ht_text2 = '<div class="row"> <div class="col-12">
<div class="card"> <div class="card-header"> <h3 class="card-title">' +
data.remaining[i].title + '</h3> <small class="badge
badge-warning"><i class="far fa-clock"></i> ' +
data.remaining[i].seton + '</small> <div class="card-tools"> <button

```

```

type="button" class="btn btn-tool" data-card-widget="collapse"
data-toggle="tooltip" title="Collapse"><i class="fas
fa-minus"></i></button> </div> </div> <div class="card-body"> <div
class="row"> <div class="col-md-6 col-sm-6 col-12"> <div
class="info-box"> <span class="info-box-icon bg-info"><i class="fas
fa-leaf"></i></span> <div class="info-box-content"> <span
class="info-box-text">Farm Name</span> <span
class="info-box-number">' + data.remaining[i].name + ' (' +
data.remaining[i].farmid + ')' + '</span> </div> </div> <div
class="col-md-6 col-sm-6 col-12"> <div class="info-box"> <span
class="info-box-icon bg-warning"><i class="fas fa-bell"></i></span>
<div class="info-box-content"> <span class="info-box-text">Task
ID</span> <span class="info-box-number">' + data.remaining[i].tid +
'</span> </div> </div> </div> <div class="row"> <div
class="col-md-6 col-sm-6 col-12"> <div class="info-box"> <span
class="info-box-icon bg-success"><i class="fas fa-edit"></i></span>
<div class="info-box-content"> <span
class="info-box-text">Description</span> <span
class="info-box-number">' + data.remaining[i].desc + '</span> </div>
</div> </div> <div class="col-md-6 col-sm-6 col-12"> <div
class="info-box"> <span class="info-box-icon bg-danger"><i
class="fas fa-tasks"></i></span> <div class="info-box-content">
<span class="info-box-text">Priority</span> <span
class="info-box-number">' + data.remaining[i].priority + '</span>
</div> </div> </div> </div> <div class="card-footer"> <form
method ="post" action="status"> <button type="button" class="btn
btn-primary" name="accept" onclick="deltask(' + data.remaining[i].tid +
')"> Done </button> </form> </div> </div> </div><br>';
document.getElementById("task_rem").innerHTML +=
ht_text2;
//console.log(ht_text)
}
}
);

```

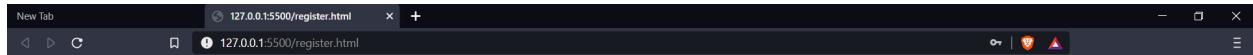
```
//fetchfarms(getCookie('user_key'));
//drawFarm(getCookie('user_key'));

};

function myfarms_id(id) {
    console.log($(id).attr('id'));
    var id_with_name = $(id).attr('id');
    str_arr = id_with_name.split("/");
    var farmid = str_arr[0]
    var set_farmname = str_arr[1]
    setCookie('farm_id', farmid, 1);
    setCookie('farm_name', set_farmname, 1);
    window.location.href = 'myfarms.html'
}
</script>
</body>
</html>
```

OUTPUT:

Registration and Login:



Farm Aid Registration



Balaji

8124198950

.....

Register



Farm Aid



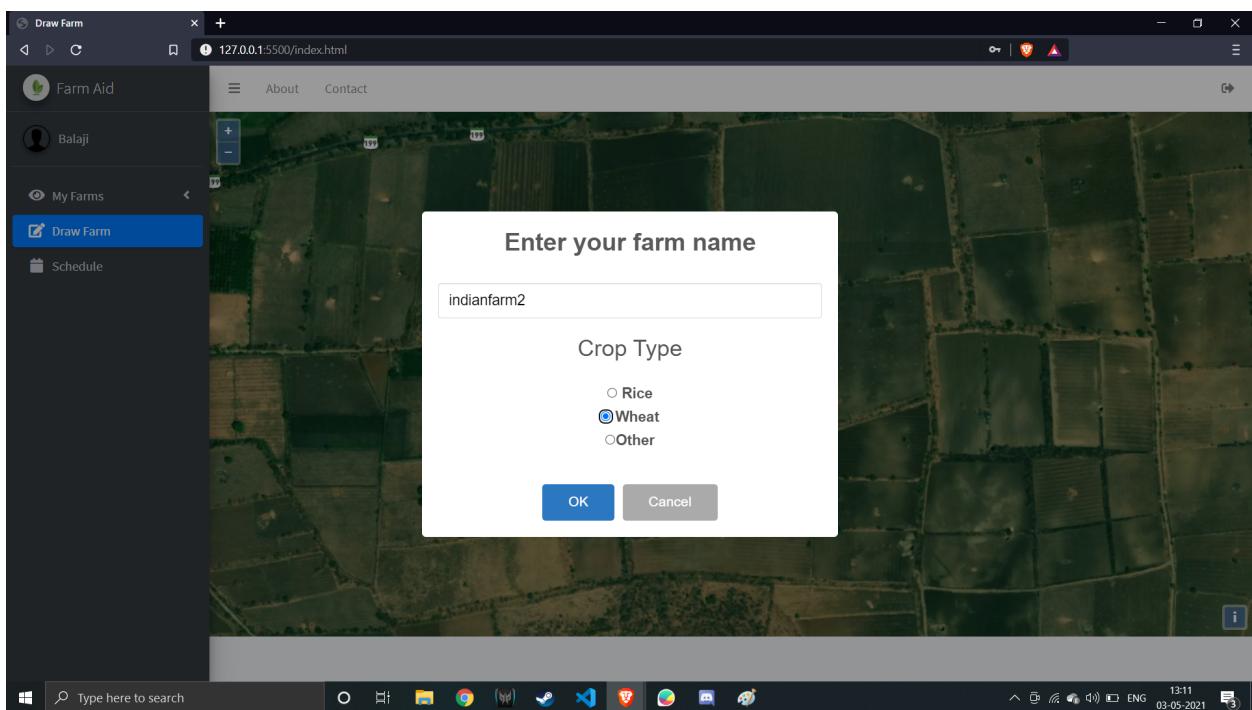
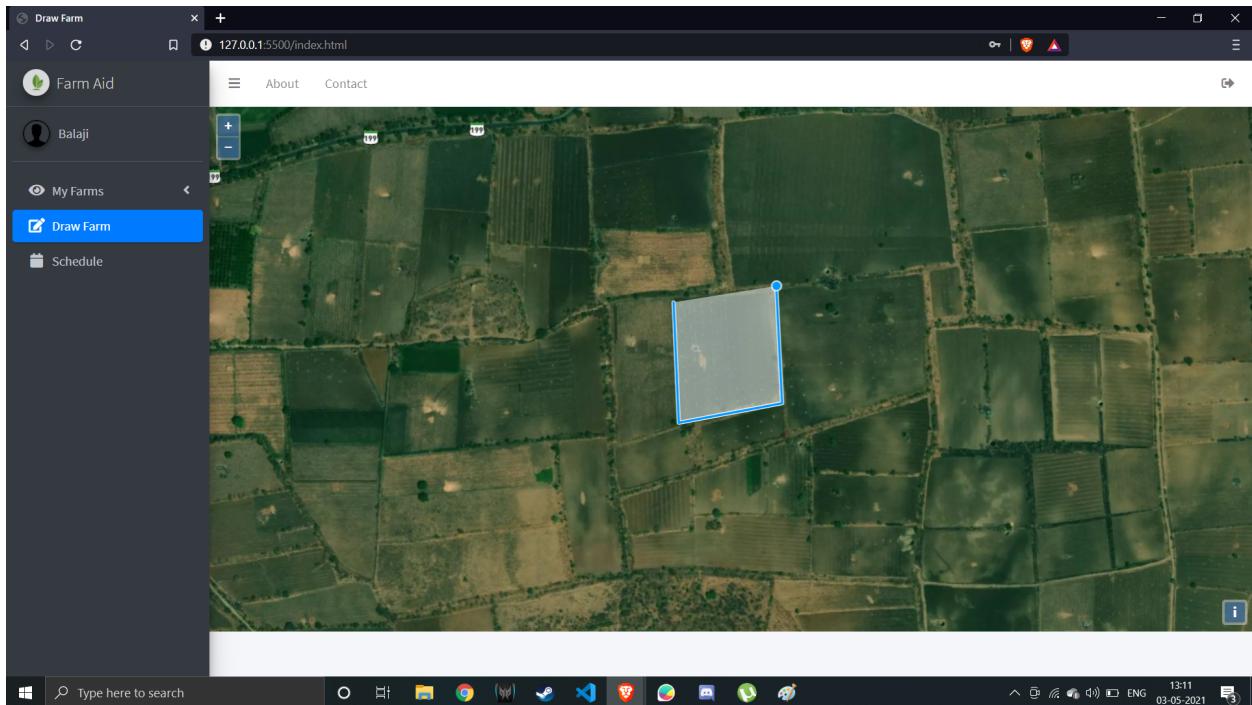
8124198950

.....

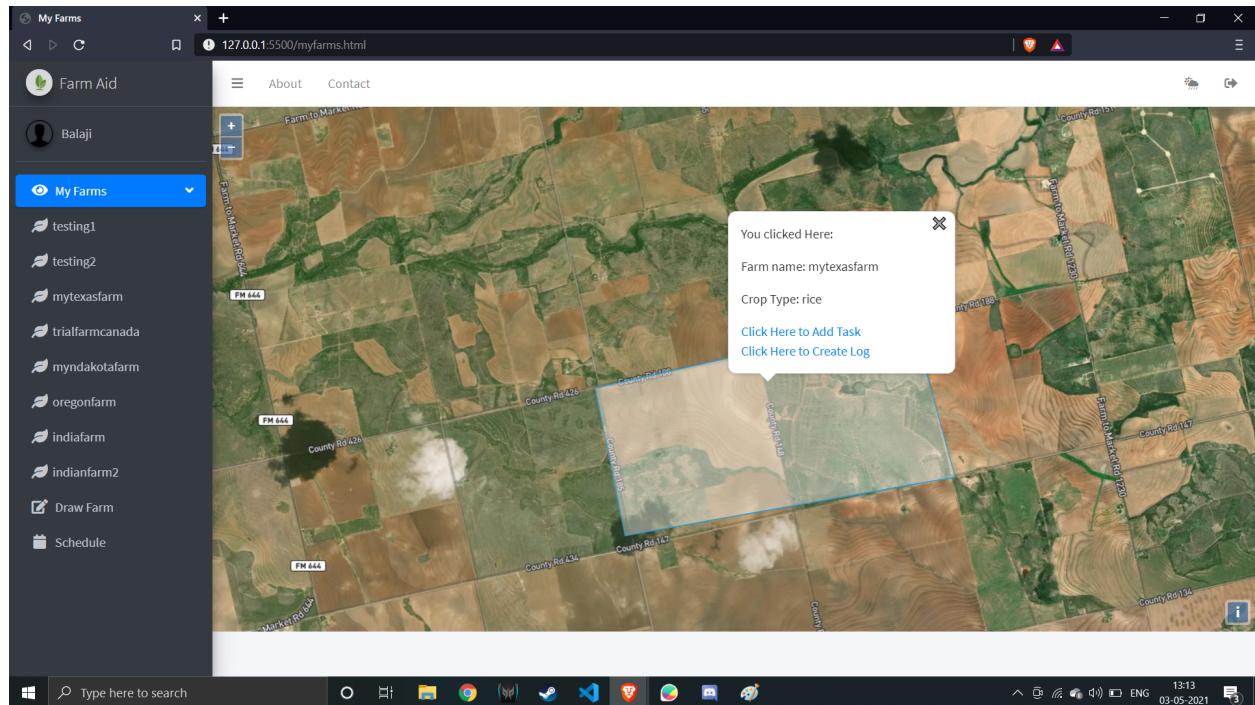
login



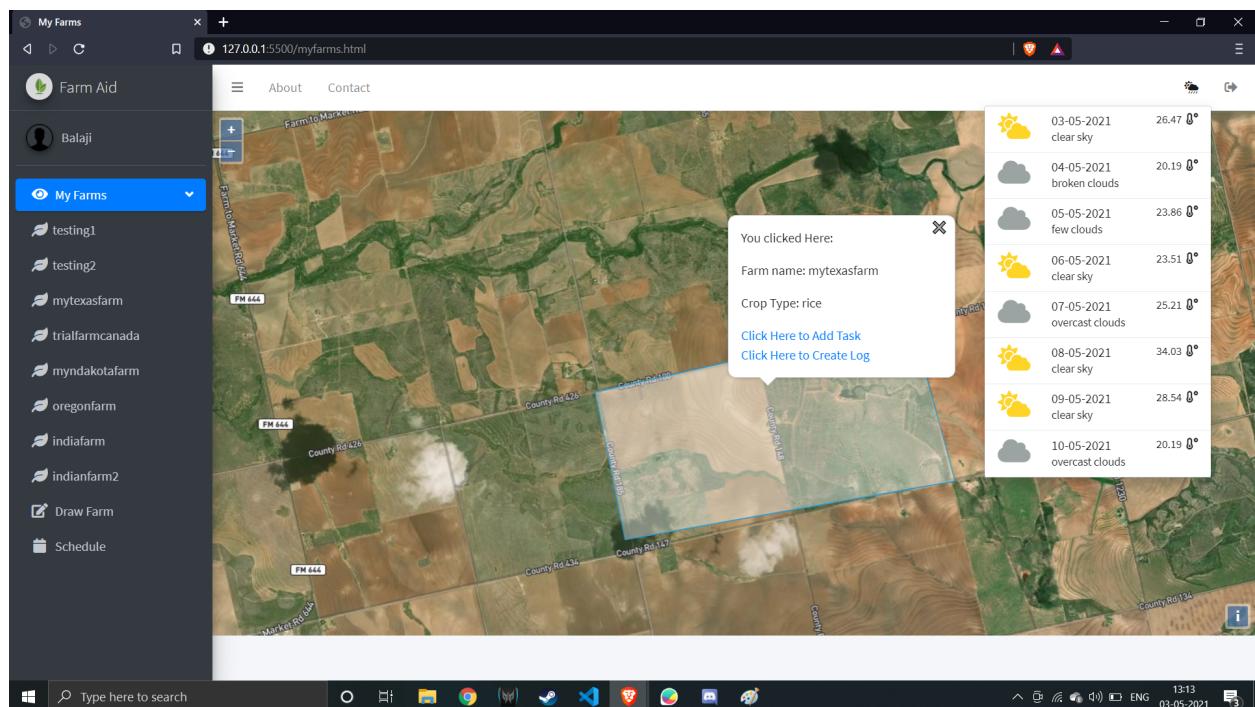
Draw Farm:



My Farms:



Weather:



Add Task:

The screenshot shows a web browser window titled "Add New Task" at the URL 127.0.0.1:5500/addtask.html. The page has a dark theme with a sidebar on the left containing icons for "Farm Aid", "Balaji", "My Farms", "Draw Farm", and "Schedule". The main content area is titled "New Task" and contains a blue header bar with "Fill Below Form". Below this are several input fields: "Title" (text input with "texas test task"), "Date" (date input with "21-05-2021"), "Select Priority" (dropdown menu with "High"), "Write Description" (text area with "testing from UI"), and a "Submit" button. The status bar at the bottom shows the Windows taskbar with various pinned icons and the date/time as 03-05-2021 13:14.

Create a Log:

The screenshot shows a web browser window titled "farm_entry.html" at the URL 127.0.0.1:5500/farm_entry.html. The sidebar on the left is identical to the previous screenshot. The main content area is titled "mytexasfarm" and contains a form for creating a log entry. It includes fields for "Entry Name" (text input with "Pesticide and irrigation") and "Pick Date" (date input with "03-05-2021"). Below these are checkboxes for "Irrigation" (checked), "Fertilizer" (unchecked), and "Pesticide" (checked). There is also a "Comments" field with the text "Tried a new pesticide from abcd & co.". A large green "Submit" button is centered below the form. At the bottom, there are four summary boxes: "Entries 1,410", "Irrigation 410", "Fertilizer 13,648", and "Pesticide 93,139". A "Previous entries" section with a table header "Name Date Comments Fertilizer Irrigation Pesticide" is also visible. The status bar at the bottom shows the Windows taskbar and the date/time as 03-05-2021 13:16.

CONCLUSION:

A Web Application where farmers can

- add their farms by drawing it on a Satellite-Street map
- Create Logs for the added farm
- Schedule tasks for the added farm
- Obtain 7 day weather forecast data
- Receive alert in case of any remaining tasks

Was created successfully.