PROGRESS

As of may 2 nd

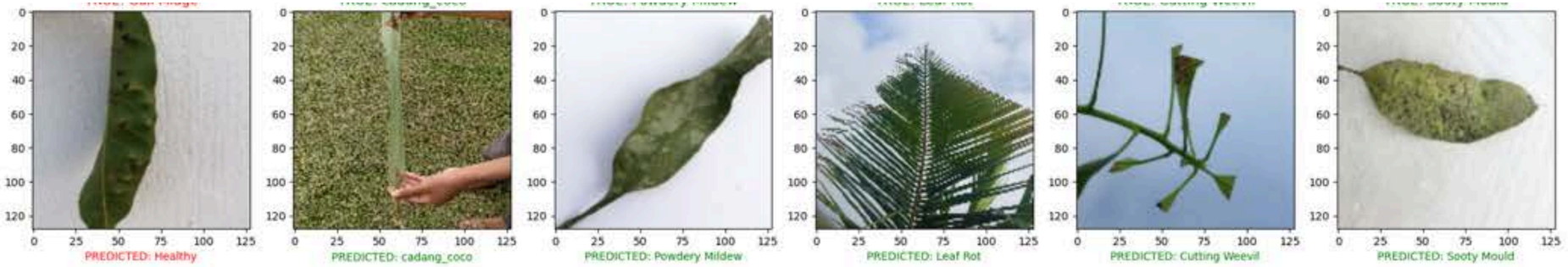
testing.ipynb > ...

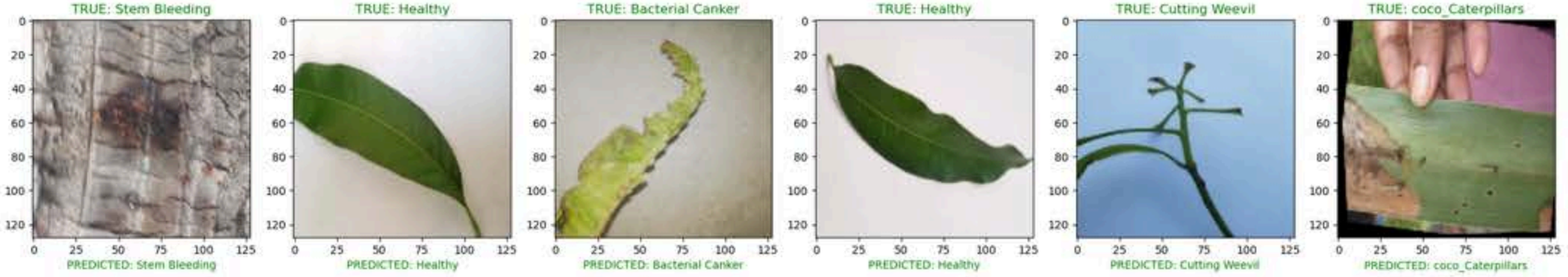
+ Code + Markdown | Run All Clear All Outputs | Outline ...

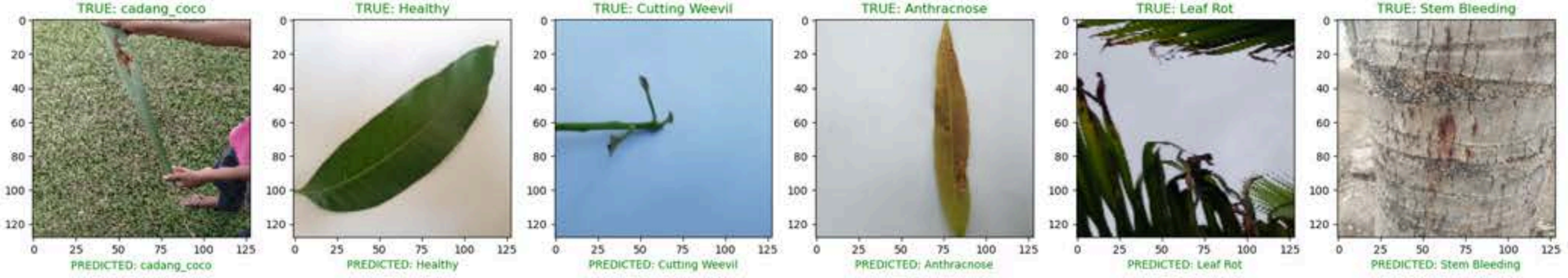
```
model=Sequential()
model.add(Conv2D(filters=8,kernel_size=(3,3),padding="Same",activation="relu",input_shape=(SIZE,SIZE,3)))
model.add(MaxPooling2D(pool_size=(2,2)))

model.add(Conv2D(filters=128,kernel_size=(3,3),padding="Same",activation="relu"))
model.add(Conv2D(filters=128,kernel_size=(3,3),padding="Same",activation="relu"))
model.add(Conv2D(filters=128,kernel_size=(3,3),padding="Same",activation="relu"))
model.add(MaxPooling2D(pool_size=(2,2)))

model.add(Flatten())
model.add(Dense(128,activation="relu"))
model.add(Dense(64,activation="relu"))
model.add(Dropout(rate=0.5))
model.add(Dense(28, activation = "softmax"))
```

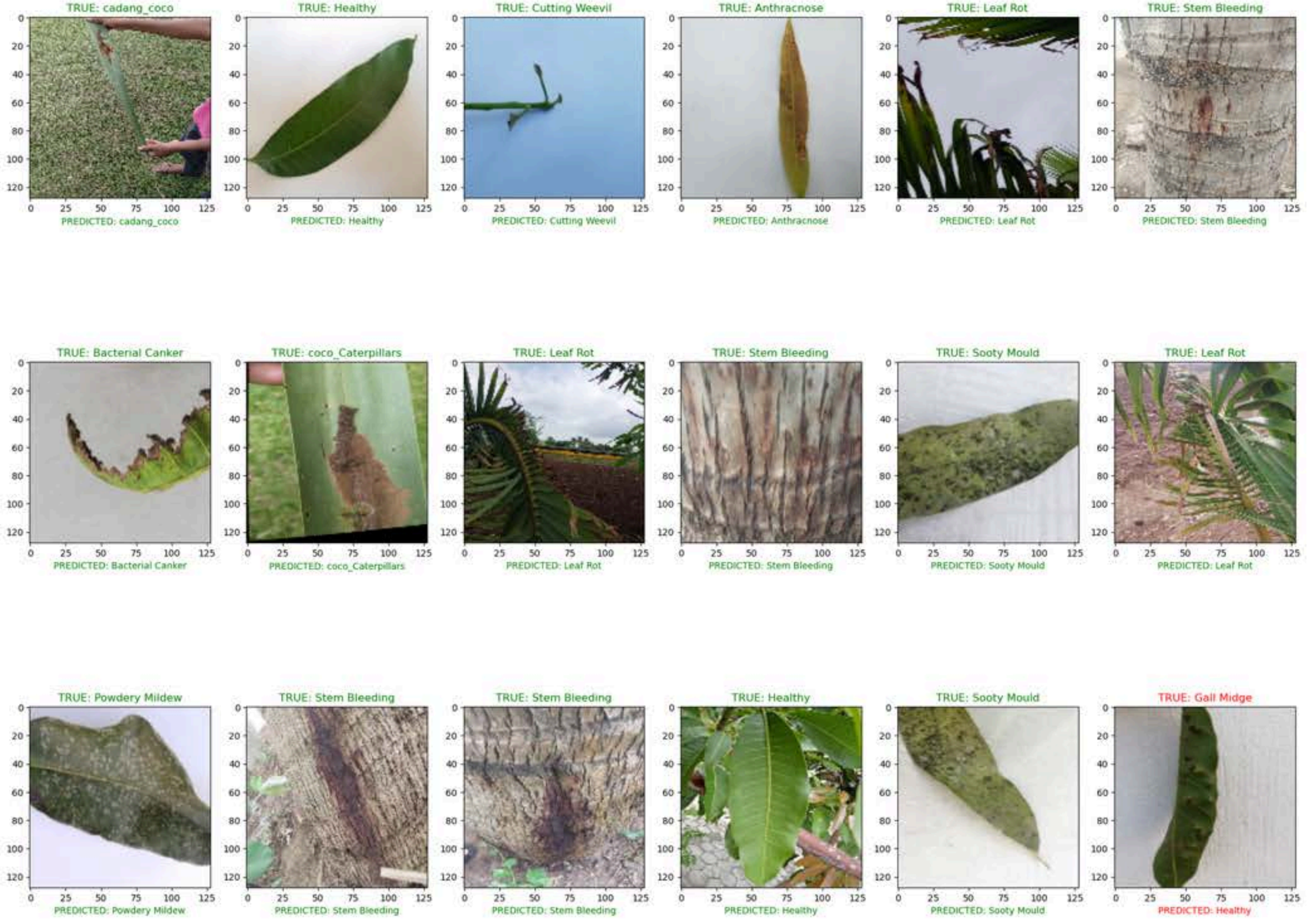
[16]

```
datagen = ImageDataGenerator(
        rotation_range=50,
        zoom_range = 0.20,
        width_shift_range=0.3,
        height_shift_range=0.3,
        horizontal_flip=True,
        vertical_flip=True)
```


PREDICTED: Healthy
PREDICTED: cadang_coco
PREDICTED: Powdery Mildew
PREDICTED: Leaf Rot
PREDICTED: Cutting Weevil
PREDICTED: Sooty Mould


TRUE: Stem Bleeding
PREDICTED: Stem Bleeding
TRUE: Healthy
PREDICTED: Healthy
TRUE: Bacterial Canker
PREDICTED: Bacterial Canker
TRUE: Healthy
PREDICTED: Healthy
TRUE: Cutting Weevil
PREDICTED: Cutting Weevil
TRUE: coco_Caterpillars
PREDICTED: coco_Caterpillars


TRUE: cadang_coco
PREDICTED: cadang_coco
TRUE: Healthy
PREDICTED: Healthy
TRUE: Cutting Weevil
PREDICTED: Cutting Weevil
TRUE: Anthracnose
PREDICTED: Anthracnose
TRUE: Leaf Rot
PREDICTED: Leaf Rot
TRUE: Stem Bleeding
PREDICTED: Stem Bleeding


TRUE: cadang_coco
PREDICTED: cadang_coco
TRUE: Healthy
PREDICTED: Healthy
TRUE: Cutting Weevil
PREDICTED: Cutting Weevil
TRUE: Anthracnose
PREDICTED: Anthracnose
TRUE: Leaf Rot
PREDICTED: Leaf Rot
TRUE: Stem Bleeding
PREDICTED: Stem Bleeding
TRUE: Bacterial Canker
PREDICTED: Bacterial Canker
TRUE: coco_Caterpillars
PREDICTED: coco_Caterpillars
TRUE: Leaf Rot
PREDICTED: Leaf Rot
TRUE: Stem Bleeding
PREDICTED: Stem Bleeding
TRUE: Sooty Mould
PREDICTED: Sooty Mould
TRUE: Leaf Rot
PREDICTED: Leaf Rot
TRUE: Powdery Mildew
PREDICTED: Powdery Mildew
TRUE: Stem Bleeding
PREDICTED: Stem Bleeding
TRUE: Stem Bleeding
PREDICTED: Stem Bleeding
TRUE: Healthy
PREDICTED: Healthy
TRUE: Sooty Mould
PREDICTED: Sooty Mould
TRUE: Gall Midge
PREDICTED: Healthy

```
model.compile(optimizer=Adam(lr=0.0001),loss='categorical_crossentropy',metrics=['accuracy'])
batch_size=15
epochs=8
history = model.fit_generator(datagen.flow(x_train,y_train, batch_size=batch_size),
                              epochs = epochs,
                              validation_data = (x_test,y_test),
                              verbose = 1)
```

File Edit Selection View Go Run ··· rpi_disease

EXPLORER ··· Welcome | refining.py | refine.py | testing.ipynb | Image_39.jpg | img_naming.py

RPI_DISEASE

pest_classification

images

- Gall Midge
- Healthy
- icerya_seychellarum
- ischnaspis_longiros...
- Leaf Rot
- mictis_longicornis
- neomelicharia_spar...
- orthaga_euadrusalis
- Powdery Mildew
- procontarinia_matt...
- procontarinia_rubus
- Sooty Mould
- Stem Bleeding
- valanga_nigricornis

model1.h5
model1.onnx
model1.tflite
testing.ipynb
refine.py
refining.py
tempCodeRunnerFile....

OUTLINE
TIMELINE

pest_classification > testing.ipynb > ...

+ Code + Markdown | Run All Restart Clear All Outputs | Variables Outline ··· base (Python 3.11.4)

```
                validation_data = (x_test,y_test),
                verbose = 1)
```

[17] Python

```
WARNING:absl:`lr` is deprecated in Keras optimizer, please use `learning_rate` or use the legacy optimizer, e.g.,tf.keras.optimiz
Epoch 1/8
C:\Users\Biancaa. R\AppData\Local\Temp\ipykernel_35636\3120447878.py:4: UserWarning: `Model.fit_generator` is deprecated and will
  history = model.fit_generator(datagen.flow(x_train,y_train, batch_size=batch_size),
451/451 [==============================] - 1501s 3s/step - loss: 1.8708 - accuracy: 0.3967 - val_loss: 1.4423 - val_accuracy: 0.6
Epoch 2/8
451/451 [==============================] - 1711s 4s/step - loss: 1.1687 - accuracy: 0.5938 - val_loss: 1.1954 - val_accuracy: 0.6
Epoch 3/8
451/451 [==============================] - 690s 2s/step - loss: 0.9346 - accuracy: 0.6820 - val_loss: 0.7478 - val_accuracy: 0.77
Epoch 4/8
451/451 [==============================] - 321s 712ms/step - loss: 0.7560 - accuracy: 0.7446 - val_loss: 0.5060 - val_accuracy: 0
Epoch 5/8
451/451 [==============================] - 477s 1s/step - loss: 0.6580 - accuracy: 0.7791 - val_loss: 0.4297 - val_accuracy: 0.87
Epoch 6/8
451/451 [==============================] - 1076s 2s/step - loss: 0.5828 - accuracy: 0.8069 - val_loss: 0.4974 - val_accuracy: 0.8
Epoch 7/8
451/451 [==============================] - 302s 670ms/step - loss: 0.5348 - accuracy: 0.8297 - val_loss: 0.3623 - val_accuracy: 0
Epoch 8/8
451/451 [==============================] - 309s 685ms/step - loss: 0.5159 - accuracy: 0.8328 - val_loss: 0.3094 - val_accuracy: 0
```

```
categories = np.sort(os.listdir(folder_dir))
fig, ax = plt.subplots(6,6, figsize=(25, 40))
```

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Hello Everyone

cory

blog_post_1

The first post

harry

how to be harry styles

One of the major challenges faced by Indian agriculture is the problem of soil degradation and nutrient depletion. Soil degradation occurs due to several factors such as erosion, loss of organic matter, and chemical pollution, amongst others. As a result, Indian soil is losing its fertility at an alarming rate, leading to decreased crop yields and reduced productivity.

Farmers often resort to using chemical fertilizers to compensate for the loss of soil fertility, which only exacerbates the problem. The overuse of chemical fertilizers damages the soil microbiome and reduces its ability to retain moisture and essential nutrients.

Furthermore, soil degradation also contributes to environmental issues like air and water pollution. When soil loses its fertility, it affects the quality of crops, which in turn affects human health and well-being.

To address this issue, farmers need to adopt sustainable practices like crop rotation

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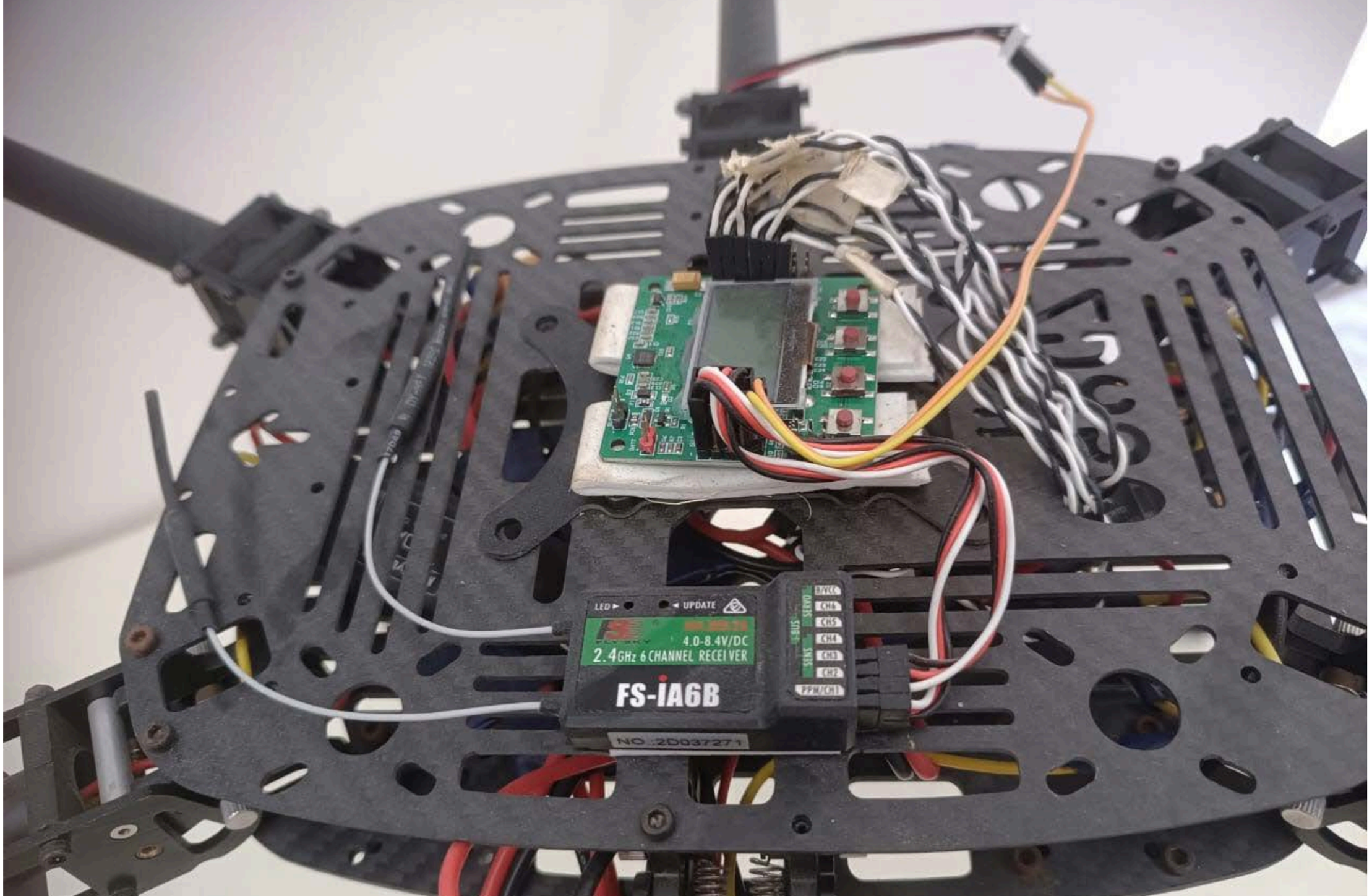
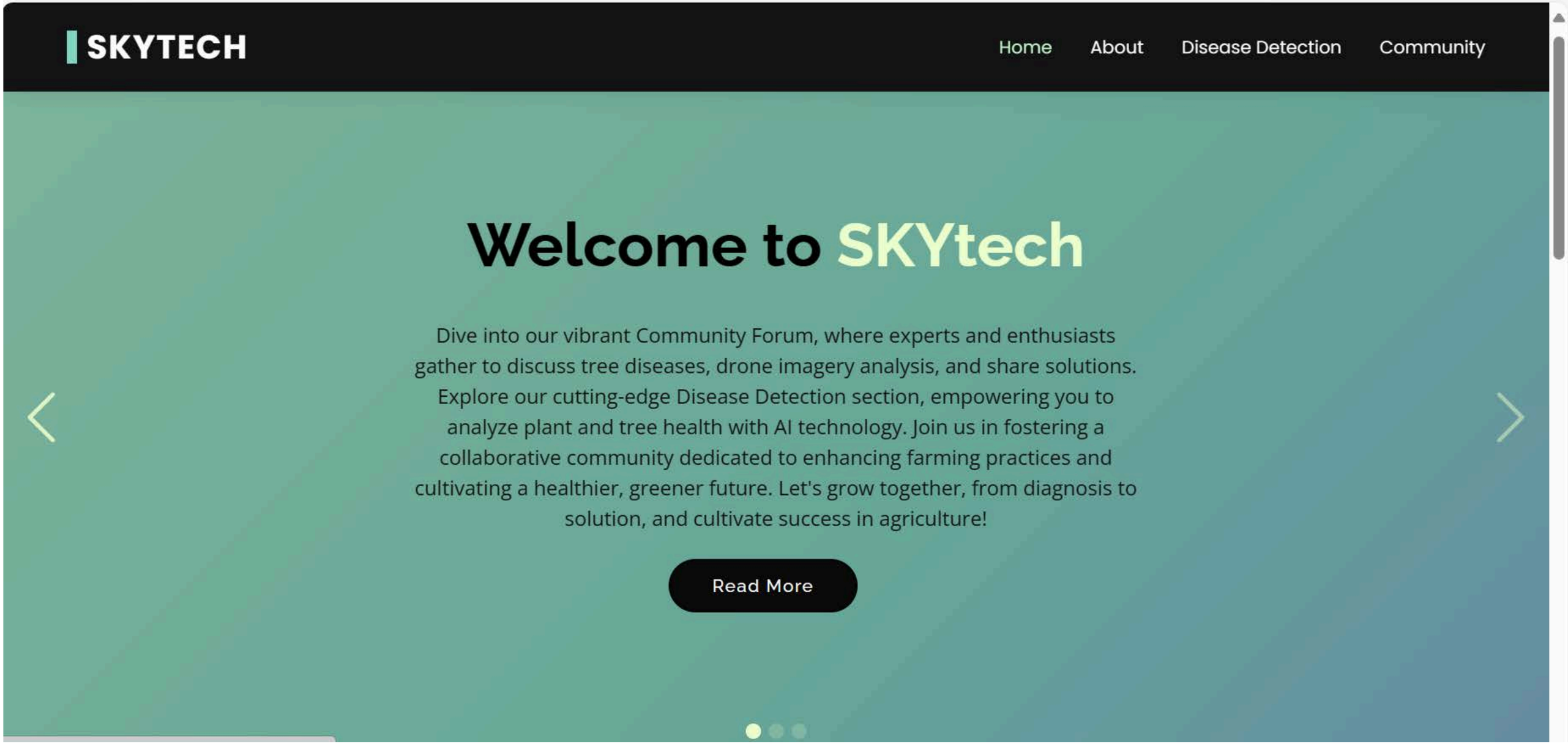

LED
UPDATE
4.0-8.4V/DC
2.4GHz 6 CHANNEL RECEIVER
FS-iA6B
NO :2D037271
S.BUS
SERVO
B/VCC
CH6
CH5
CH4
CH3
CH2
PPM/CH1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Community
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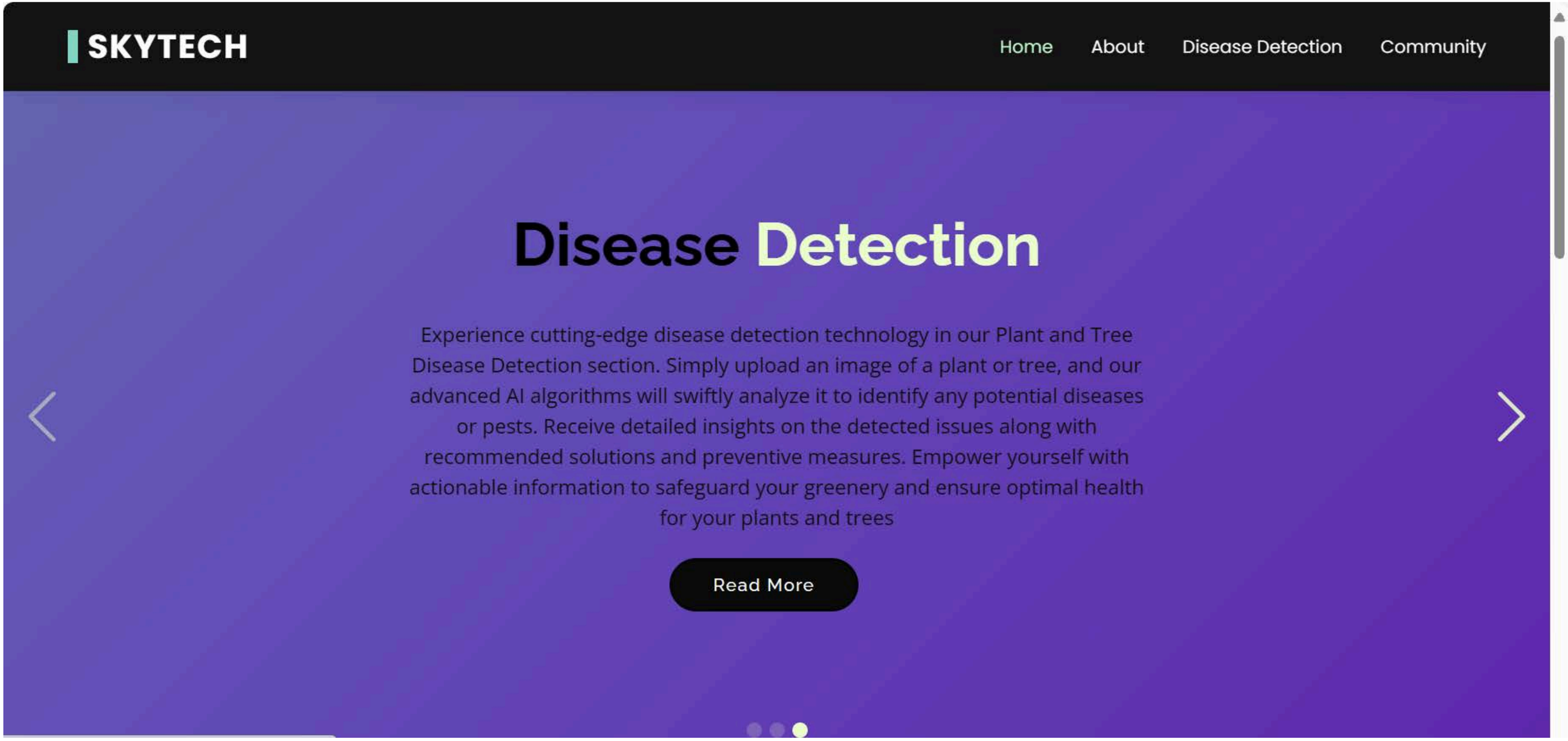
Dive into our vibrant Community Forum, where experts and enthusiasts gather to discuss tree diseases, drone imagery analysis, and share solutions. Explore our cutting-edge Disease Detection section, empowering you to analyze plant and tree health with AI technology. Join us in fostering a collaborative community dedicated to enhancing farming practices and cultivating a healthier, greener future. Let's grow together, from diagnosis to solution, and cultivate success in agriculture!
Read More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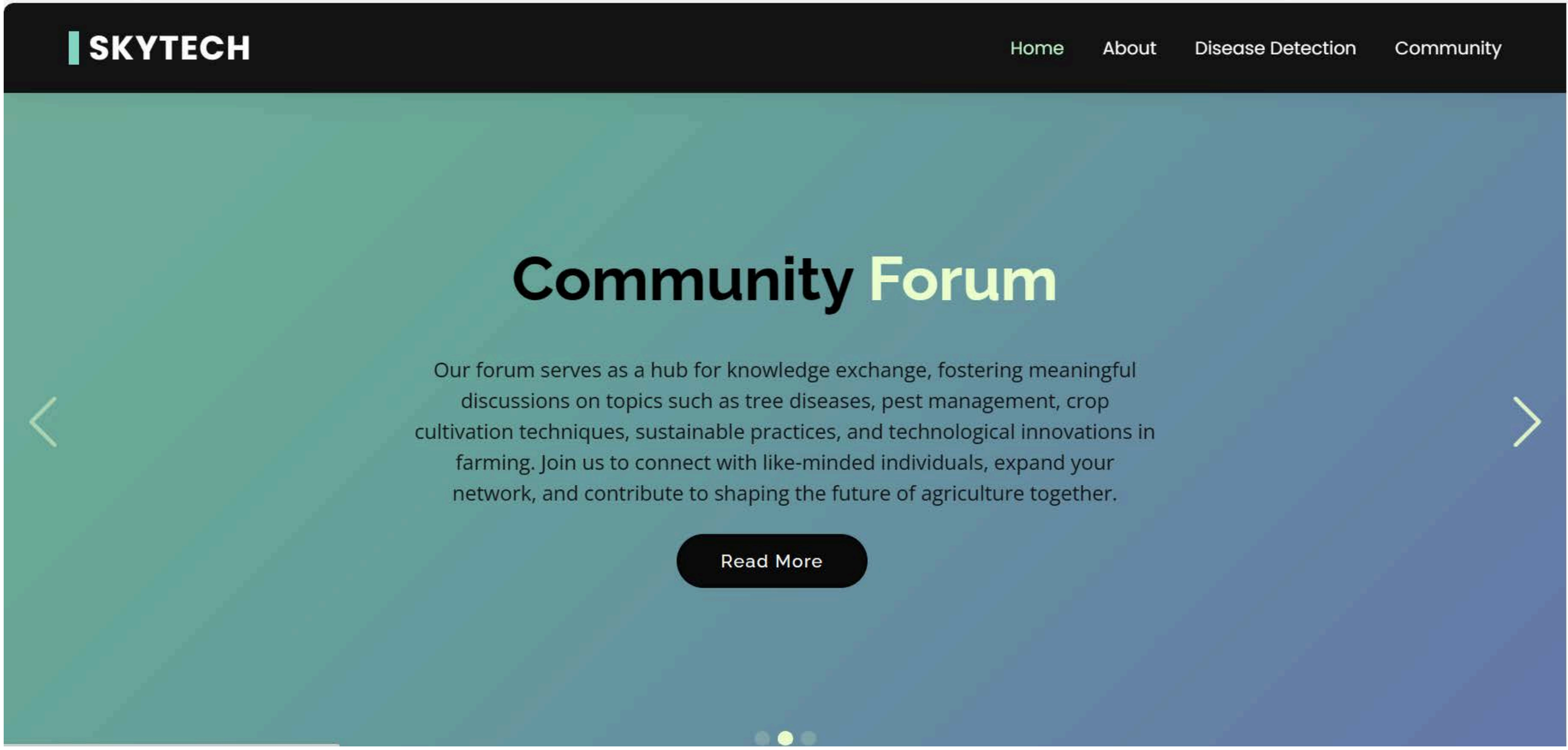
Experience cutting-edge disease detection technology in our Plant and Tree Disease Detection section. Simply upload an image of a plant or tree, and our advanced AI algorithms will swiftly analyze it to identify any potential diseases or pests. Receive detailed insights on the detected issues along with recommended solutions and preventive measures. Empower yourself with actionable information to safeguard your greenery and ensure optimal health for your plants and trees
Read More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Community
Community Forum
Our forum serves as a hub for knowledge exchange, fostering meaningful discussions on topics such as tree diseases, pest management, crop cultivation techniques, sustainable practices, and technological innovations in farming. Join us to connect with like-minded individuals, expand your network, and contribute to shaping the future of agriculture together.
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About Us

ABOUT US

Our mission is to foster collaboration, knowledge-sharing, and innovation within the agricultural community. We bring together farmers, experts, researchers, and enthusiasts to collaborate on common goals, share valuable insights, and explore innovative solutions that drive progress in agriculture

- We believe in empowering farmers and agricultural professionals by providing a platform dedicated to knowledge-sharing and collaboration
- Our platform features cutting-edge disease detection software, empowering users to analyze plant and tree health with AI technology.
- We bring together farmers, experts, researchers, and enthusiasts to collaborate on common goals, share valuable insights, and explore innovative solutions that drive progress in agriculture.

Disease Detection

About SKYtech

Dive into our vibrant Community Forum, where experts and enthusiasts gather to discuss tree diseases, drone imagery analysis, and share solutions. Explore our cutting-edge Disease Detection section, empowering you to analyze plant and tree health with AI technology.

Community

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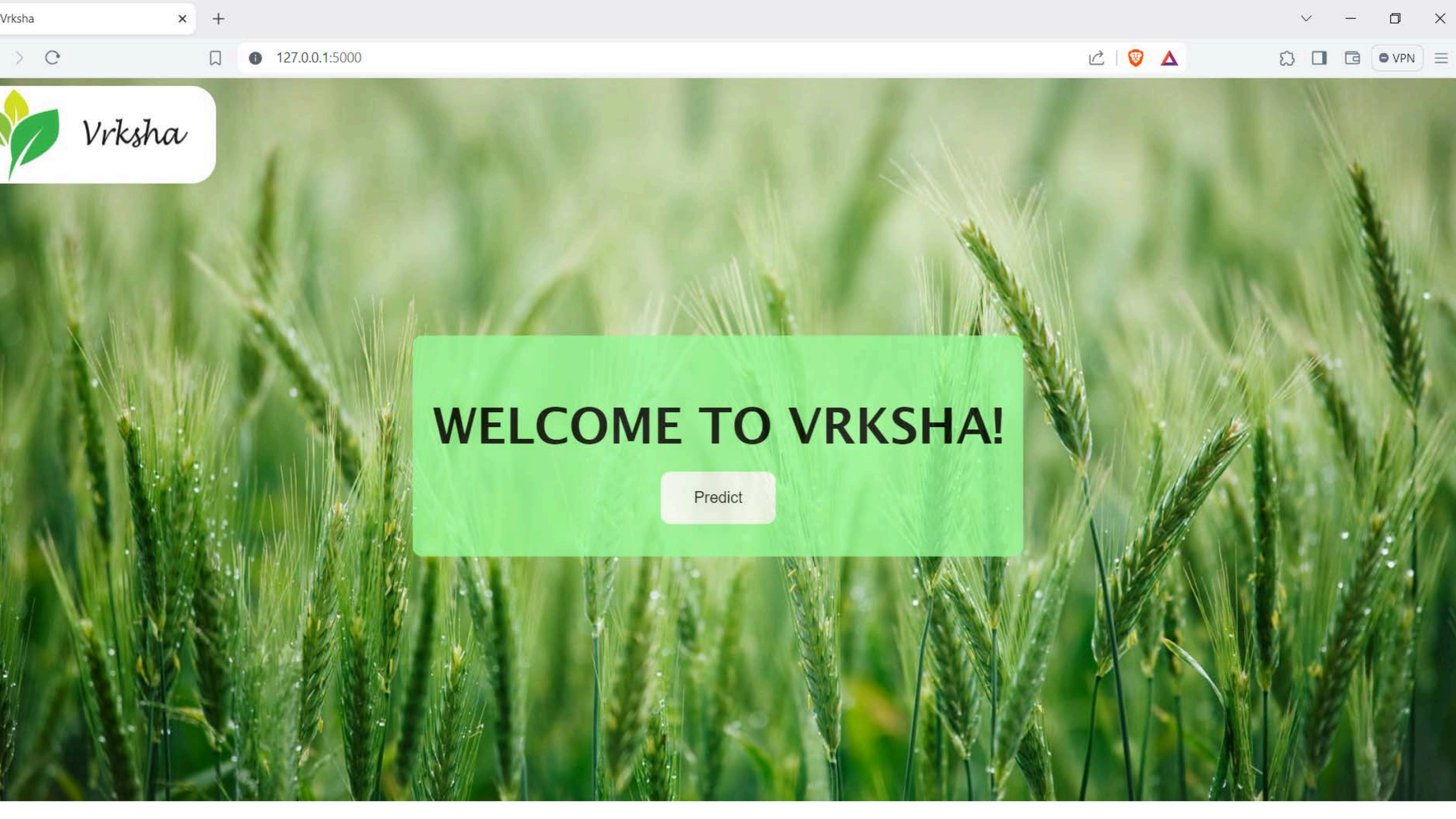
Vrksha
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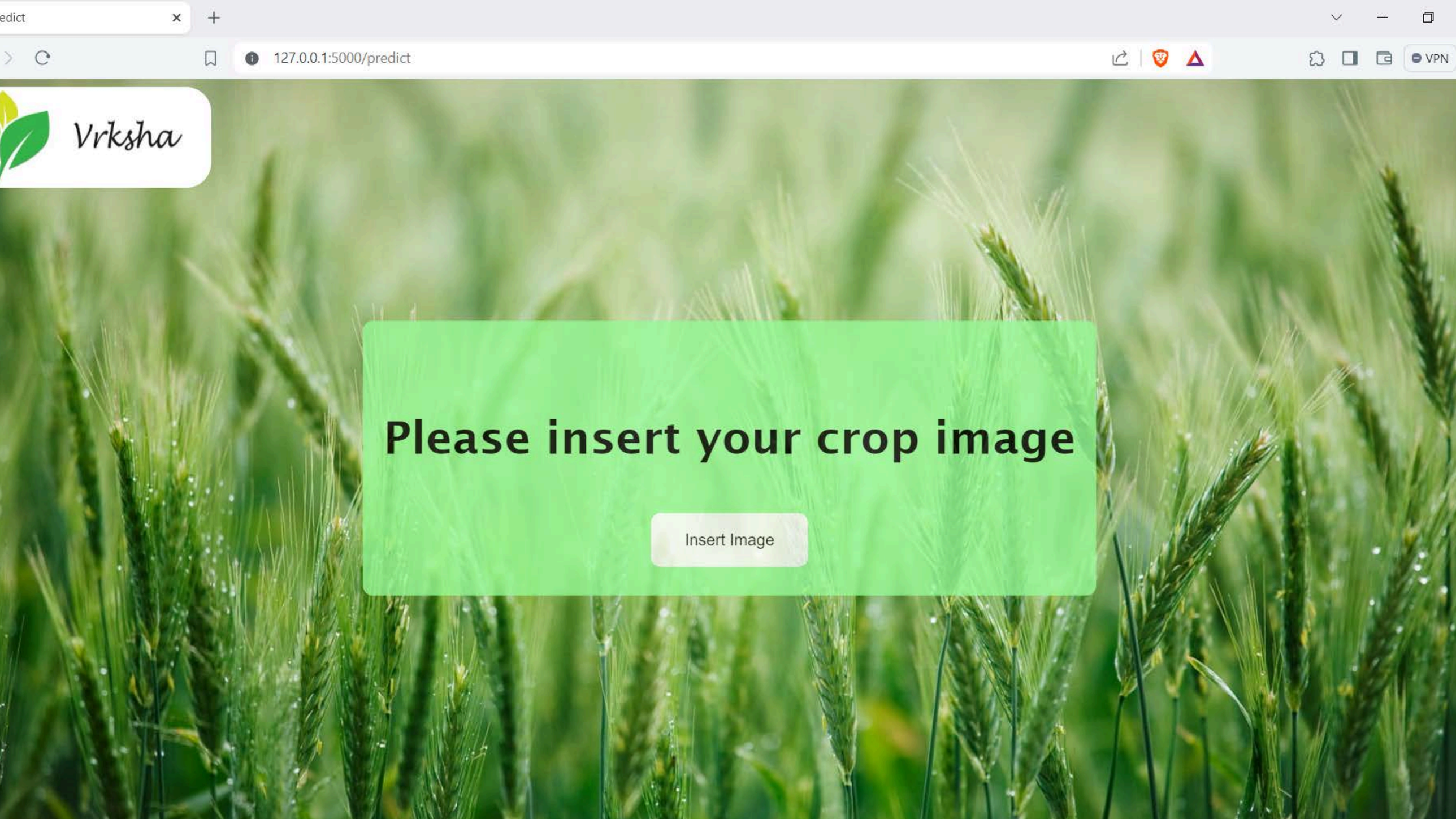
Vrksha
WELCOME TO VRKSHA!
Predict


edict
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VPN
Vrksha
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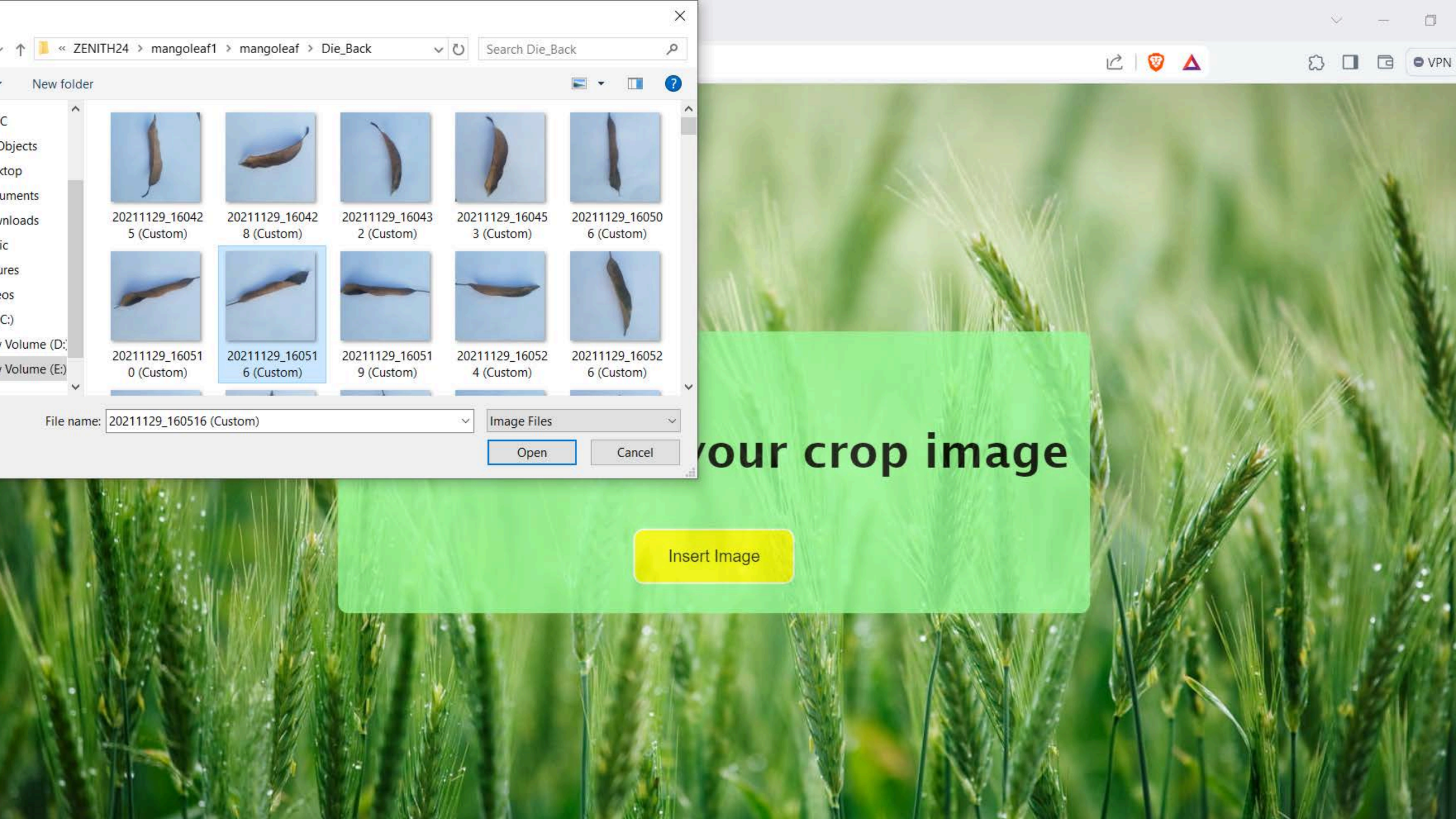
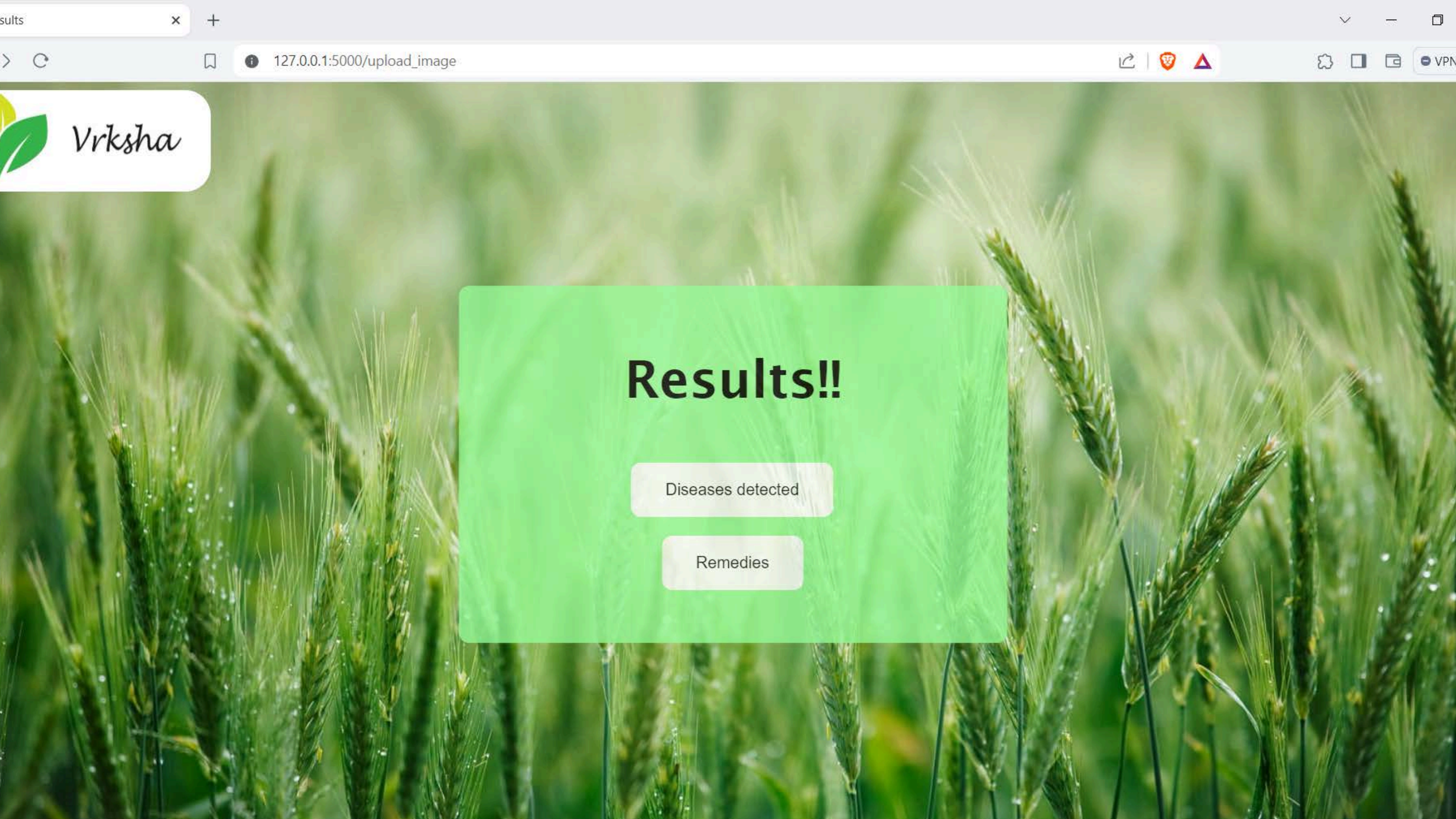
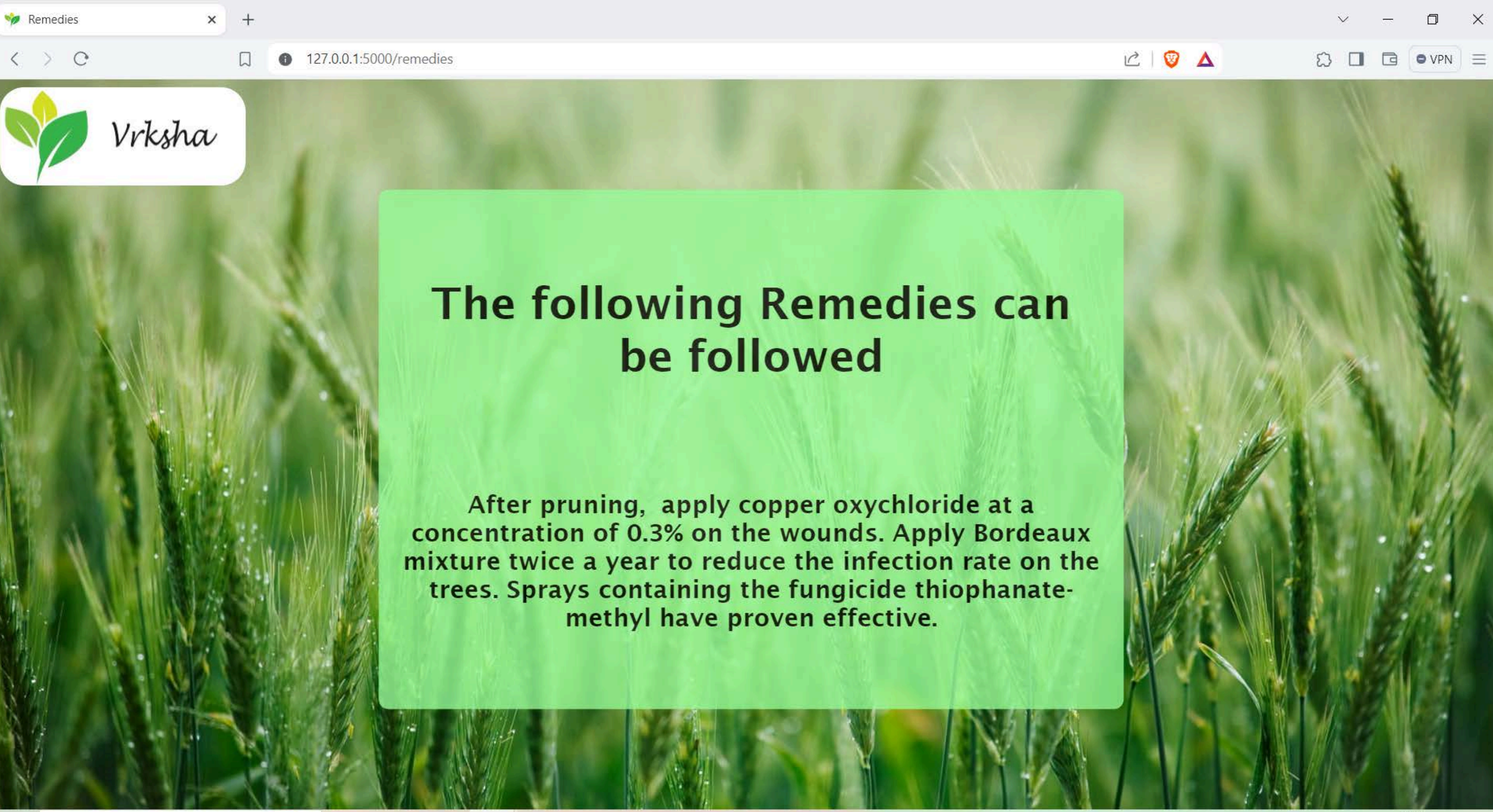
Insert Image


« ZENITH24 › mangoleaf1 › mangoleaf › Die_Back
Search Die_Back
New folder
20211129_160425 (Custom)
20211129_160428 (Custom)
20211129_160432 (Custom)
20211129_160453 (Custom)
20211129_160506 (Custom)
20211129_160510 (Custom)
20211129_160516 (Custom)
20211129_160519 (Custom)
20211129_160524 (Custom)
20211129_160526 (Custom)
File name: 20211129_160516 (Custom)
Image Files
Open
Cancel
vour crop image
Insert Image
VPN


sults
127.0.0.1:5000/upload_image
VPN
Vrksha
Results!!
Diseases detected
Remedies

Vrksha

Disease	Causes
Die_Back	The primary source of infection might be spores in the dead bark of twigs. Deficiency in iron, zinc and manganese may favor the outbreak of the disease


Remedies
127.0.0.1:5000/remedies
VPN
Vrksha
The following Remedies can be followed
After pruning, apply copper oxychloride at a concentration of 0.3% on the wounds. Apply Bordeaux mixture twice a year to reduce the infection rate on the trees. Sprays containing the fungicide thiophanate-methyl have proven effective.
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