SMART FARMER – IOT ENABLEDD SMART

GAPPLICATION PROJECT DEVELOPMENT – DELIVERY OF

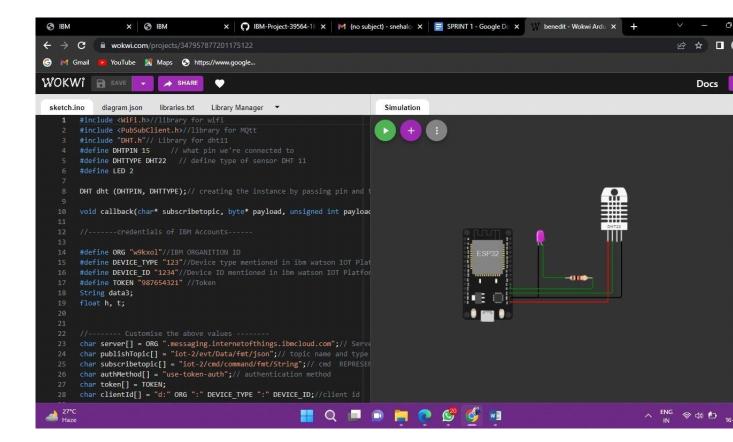
SPRINT - 1

DATE	17 NOVEMBER 2022
TITLE	SMART FARMER – IOT ENABLED
	SMART FARMING APPLICATION
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Connect Sensor in ESP8266

CIRCUIT

DIAGRAM:



Develop a Python Code:

Code: import time

```
on")
                               elif status == "motoroff":
                                                               print
               ("motor is off") else:
               print ("please send proper command") try:
              deviceOptions = {"org": organization, "type":
              deviceType, "id": deviceId, "authmethod":
              authMethod, "auth-token": authToken}
              deviceCli
                     ibmiotf.device.Client(deviceOptions
                     )#
                     pt
              Exception as e:
print("Caught exception connecting device: %s" %
                                          str(e))
                     sys.exit()
              # Connect and send a datapoint "hello" with
              value"world" into the cloud as an event of type
               "greeting" 10 times deviceCli.connect()
               while True:
               #Get Sensor Data from DHT11
               temp=random.randint(90,110)
               Humid=random.randint(60,100)
               moist=random.randint(50,120) data = { 'temp'
               :temp, 'Humid': Humid ,'moist':moist}
               #print data def myOnPublishCallback():
                                                        pri
              nt("Published Temperature = %s C" % temp,
              "Humidity = %s %%"
              % Humid, "soilmoisture=%s %%" %moist, "to IBM
               Watson")
```

```
success =
deviceCli.publishEvent("IoTSensor","json",
data,
qos=0, on_publish=myOnPublishCallback
)
if not success: print("Not
connectedto IoTF")
time.sleep(10)

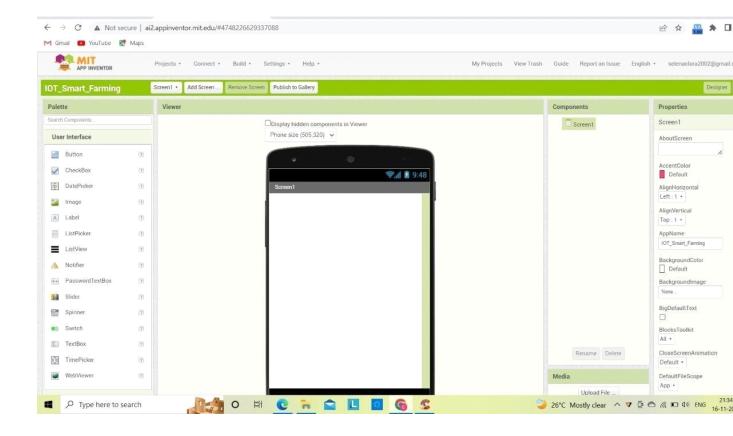
deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the
clouddeviceCli.disconnect()
```

OUTPUT:

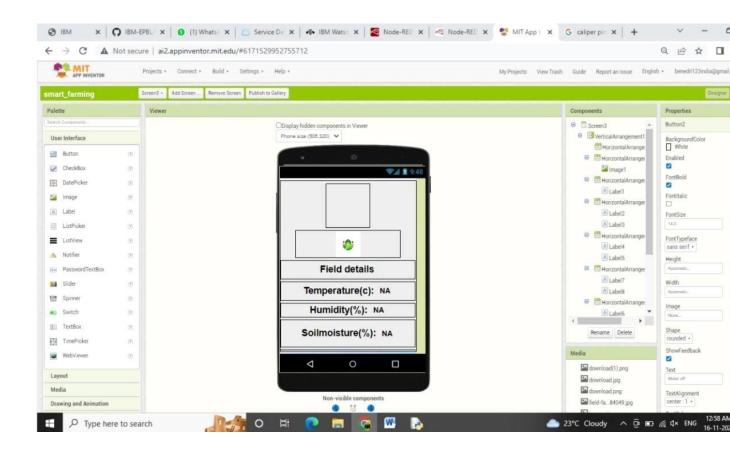


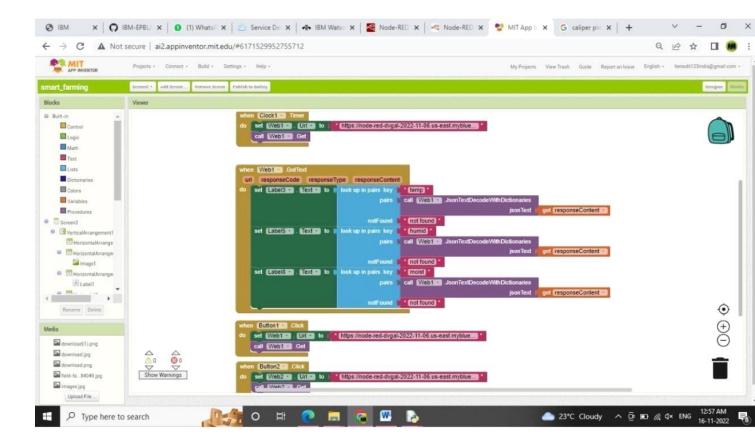
Develop an application with MIT APP

inventor: Mobile App opening page:



Mobile App Log in Page:





JIRA Software Sprint Planning:

