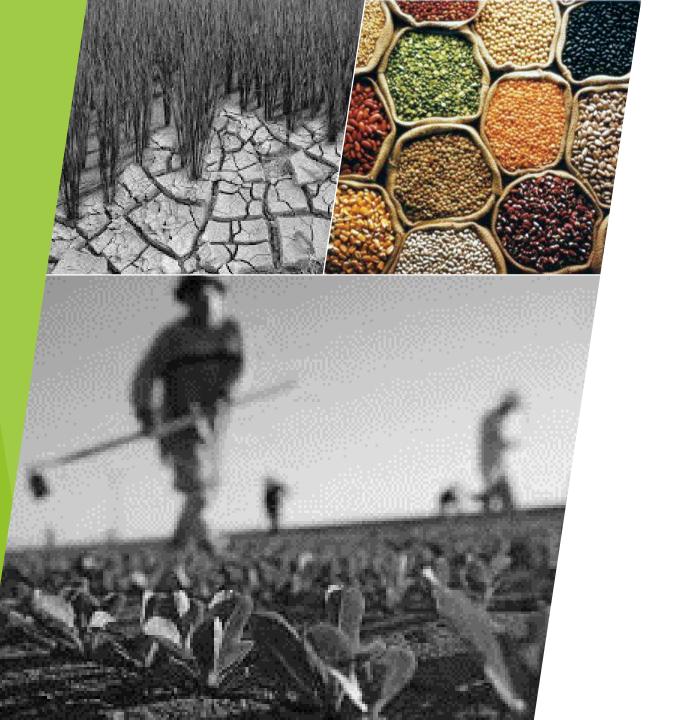


## The Project

Fresh View is a cloud-based plant monitoring system that provides numerical and visual data of plant growth to identify and automate the ideal growing conditions.









#### The Fresh View Solution



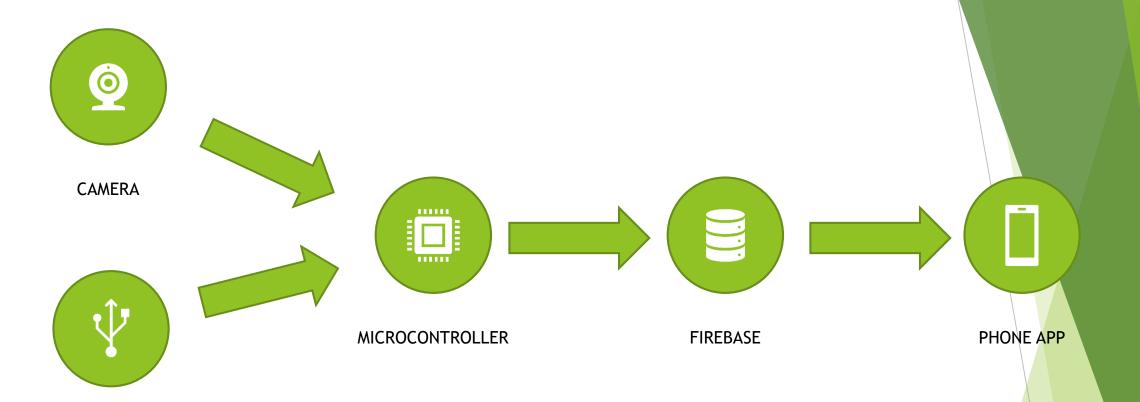
Wireless monitoring

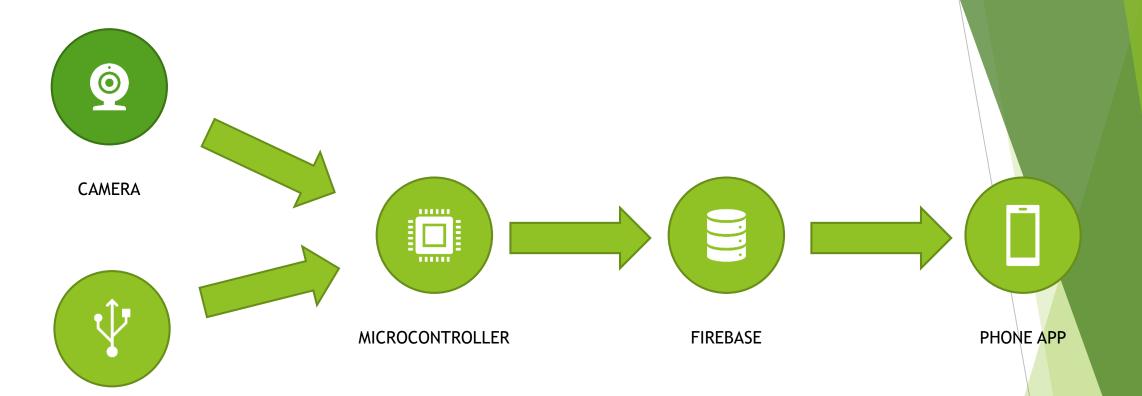


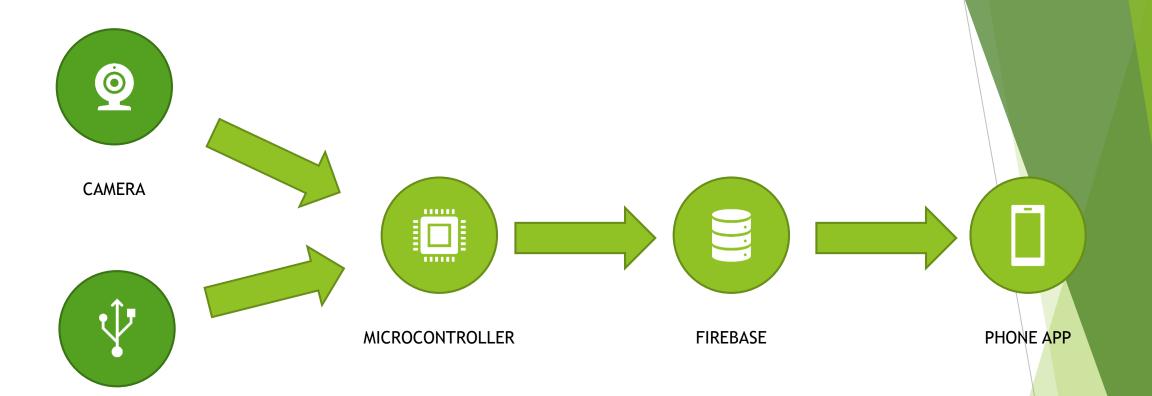
Plant history

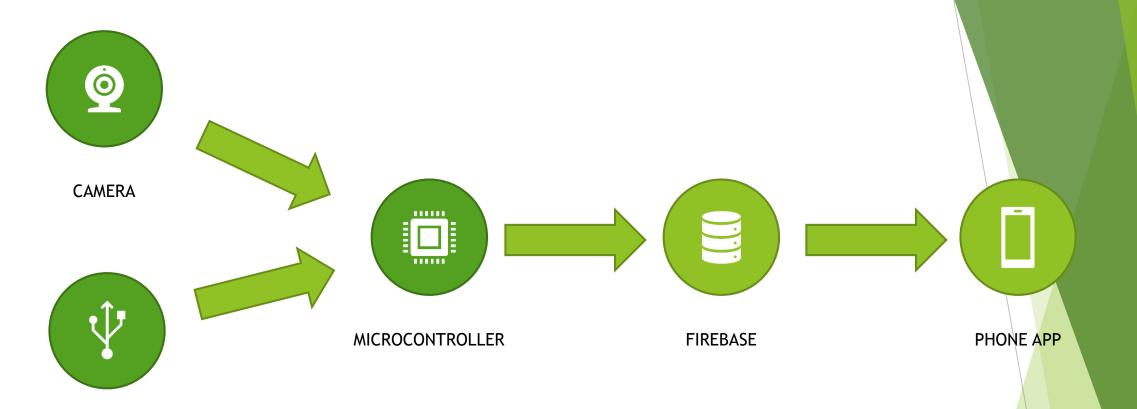


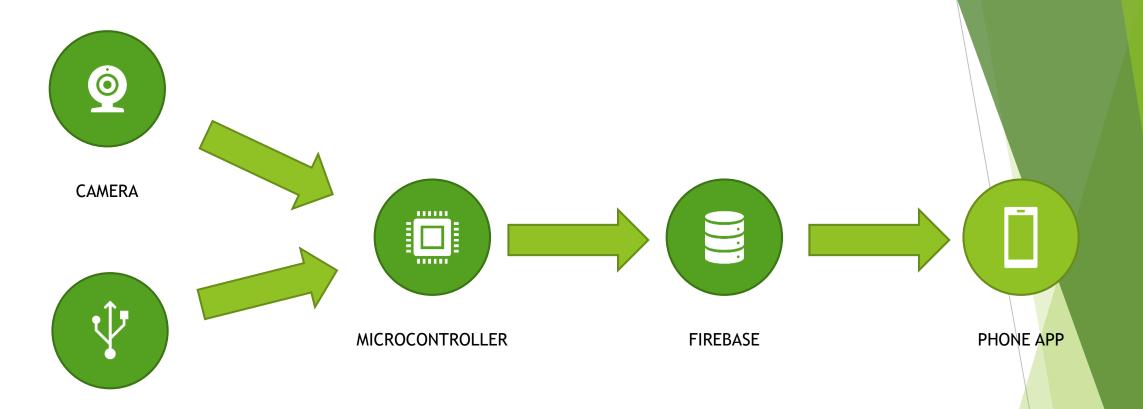
Automatic control

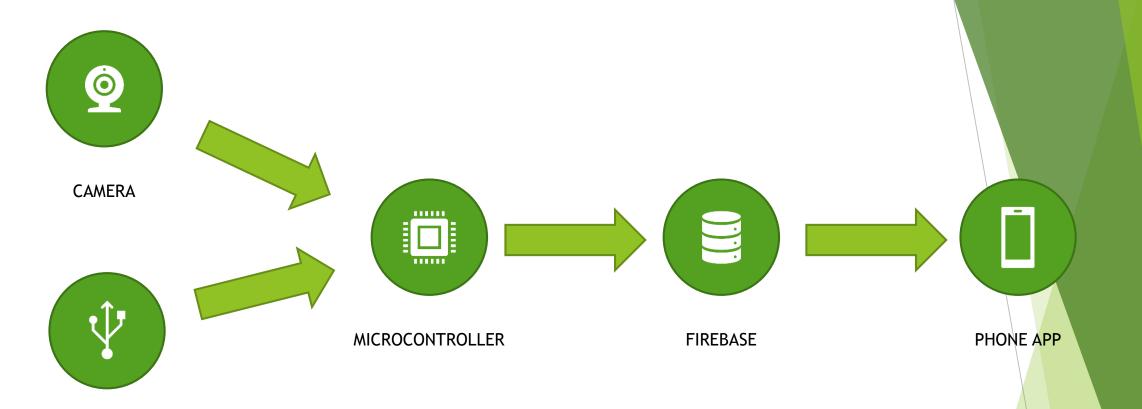


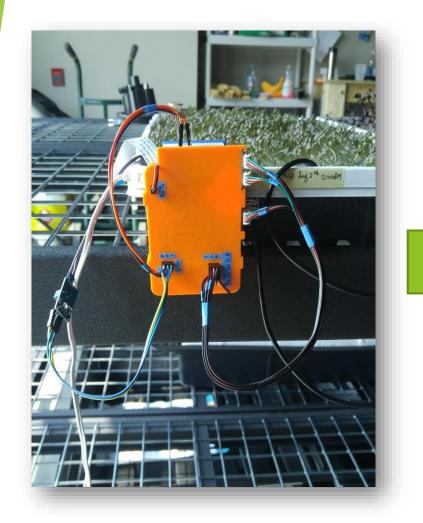


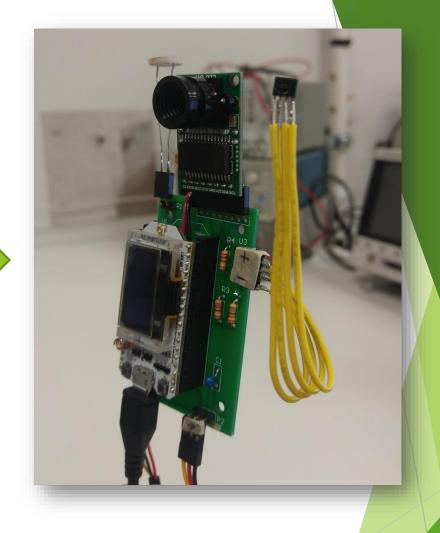






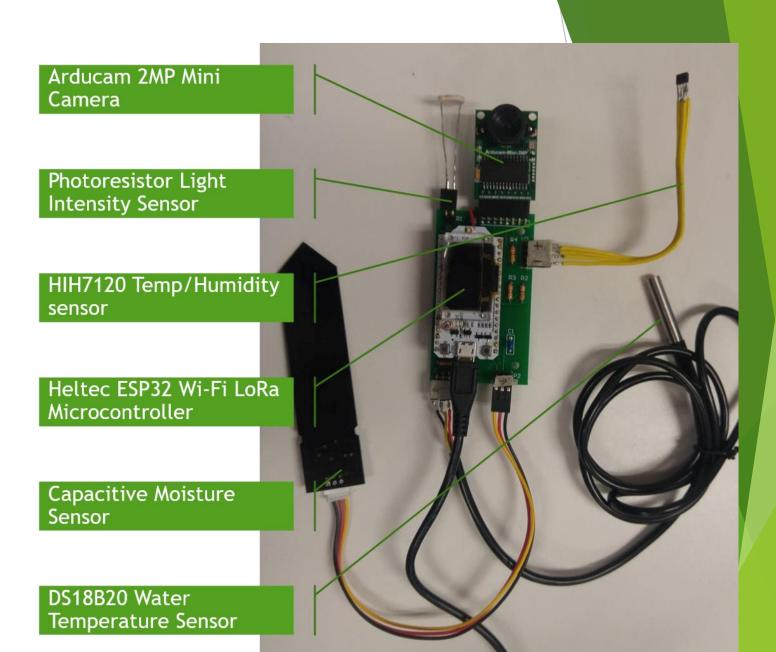


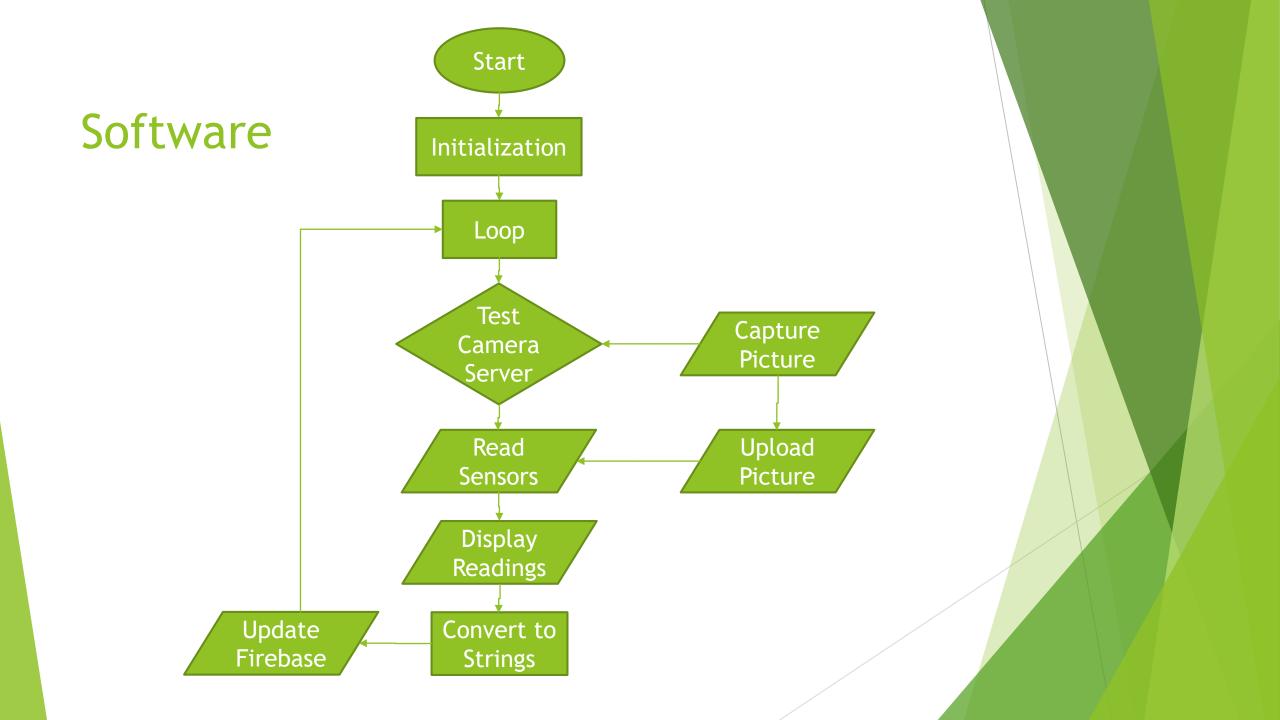




# The Process

# Hardware





## Software: Firebase to App







#### Firebase:

A form of google cloud

Real time database

```
urban-fresh-sleep-mode-d8524
  ---- "DATE: ": "2018-10-22
 - FirebaseIOT
      ..... LightIntensity: "7.00'
      --- Moisture: "-300.00
      Temperature: "25.31"
    "HOUR: ": "13:31:05
     "DATE: "
     "HOUR: "
     ■ LightIntensity
     Moisture
     ■ Temperature
```



#### MIT App Inventor

#### MIT App Inventor

- User friendly app development
- Built in firebase connection

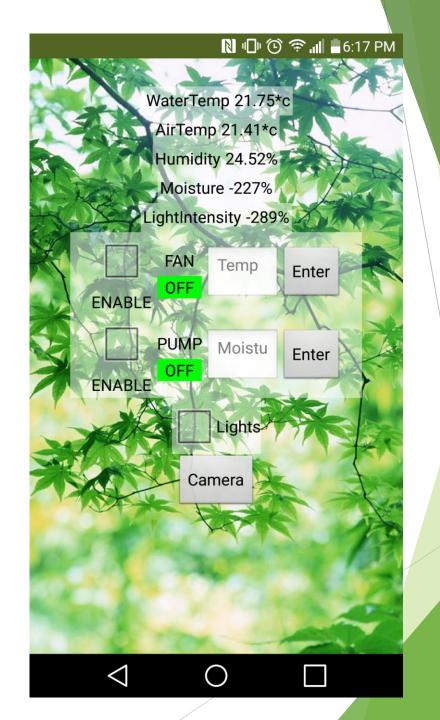
```
FirebaseDB1 . GotValue
       value
do 🛛 🔯 If
                get tag * = * // /WaterTemp *
          set Waterfemo Value . Text . to . . join . get value .
                get tag * = * /Moisture *
          set (Moisture Value . Text . to | 0 join |
                                                      get value *
    (a) II
                get tag " = " " /LightIntensity "
          set LightIntensity Value . Text to ( ) join |
                                                          get value *
    (i) II
                get tag * | = * | * /AirTemp *
          set (Africano Value . Text . to | 0 join ( get value .

    □ □

                get tag * = * |
                                " (Humidity)
          set (Humidity Value * . Text * to ( 6 join ) get value *
```

## App Interface

- User Friendly
- Regular information updates
- Pump, lights, and fan control
- Download as .apk for easy use



# Conclusion

A project with potential

# Thanks for Listening



#### **Fresh View**



AUTOMATED PLANT MONITORING SYSTEM