

**IOT ENABLED SMART
FARMING APPLICATION
SPRINT DELIVERY – 4**

PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <link rel="stylesheet" href="css/bootstrap.min.css">
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
  <link
href="https://fonts.googleapis.com/css2?family=Courgette&fam
ily=Inter:wght@100;200;300;400;500;531;600;700;800;900&fa
mily=Lobster&family=Montserrat:wght@1,500;600;700&famil
y=Oxygen:wght@300;400;700&family=Raleway:ital,wght@0,1
00;0,500;1,400;1,500&family=Roboto:ital,wght@0,400;1,700;1,
900&display=swap" rel="stylesheet">
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/animate.css/4.0.0/an
imate.min.css"/>
  <link href="css/ekko-lightbox.css">
  <link rel="stylesheet" href="css/style.css">
</head>
<title>Document</title>
```

```
<style>
  .bg-img {
    background-image: url('images/main picture.jpg');
    height: 100vh;
    width: 100vw;
    position: relative;
    background-position: center;
    background-repeat: no-repeat;
    background-size: cover;
  }
</style>
</head>
<body>

<!-- Navbar -->
<nav class="navbar navbar-expand-md navbar-light shadow-sm">
  <div class="container">
    <a class="navbar-brand" href="index.html">
      
    </a>
    <button class="navbar-toggler" type="button" data-
toggle="collapse" data-target="#collapsibleNavbar">
      <span class="navbar-toggler-icon"></span>
```



```
</div>

<!-- /container -->

</nav>
<!-- /Navbar -->
```

```
<!-- Main content -->
<!-- background image -->
<div class="bg-img">
  <div class="overlay">
    <!-- Home page content -->
    <div class="home-page-content">
      <h1 class="text-center home-page-text h1-responsive">Neo's
Agriculture</h1>
      <h5 class="text-center home-supporting-text">Bringing you
the freshest produce in the land</h5>
      <div class="home-buttons text-center fadeIn">
        <a href="services.html"> <div class="btn homepage-btn-1
btn-lg mt-2">Services</div></a>
      </div>
    </div>
  </div>
<!-- /Home page content -->
</div>
<!-- /bg-img -->
```

```
</div>
```

```
<!-- /view -->
```

```
<!-- /main content -->
```

```
<!-- Optional JavaScript -->
```

```
<!-- jQuery first, then Popper.js, then Bootstrap JS -->
```

```
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
```

```
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+Ib  
bVYUew+OrCXaRkfj" crossorigin="anonymous"></script>
```

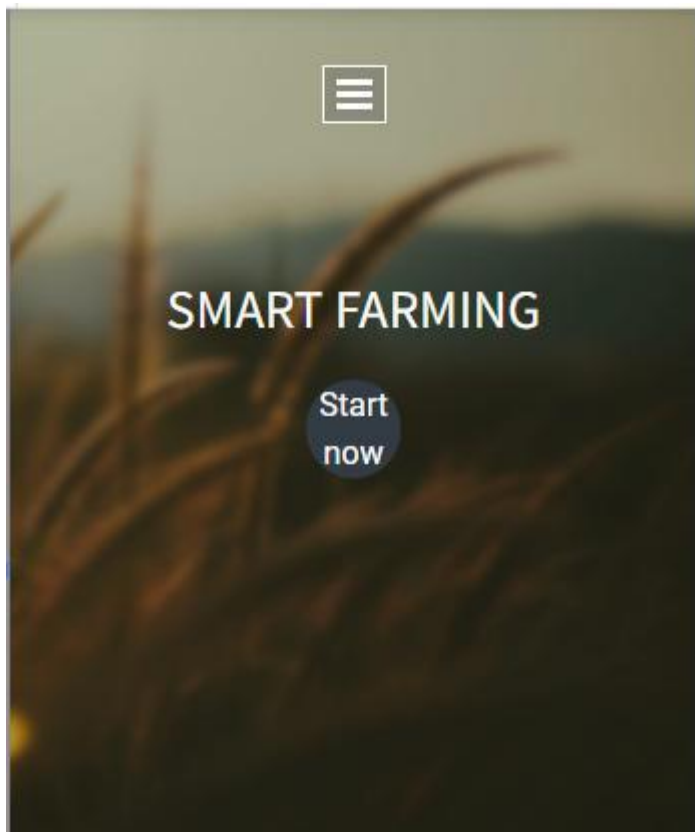
```
<script  
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/po  
pper.min.js" integrity="sha384-
```

```
Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3U  
ksdQRVvoxMfooAo" crossorigin="anonymous"></script>
```

```
<script src="js/bootstrap.min.js"></script>
```

```
<script src="js/ekko-lightbox.min.js"></script>
<script src="js/main.js"></script>
</body>
</html>
```

OUTPUT:



Advantages & Disadvantages Advantages:

- Farms can be monitored and controlled remotely.
- Increase in convenience to farmers.
- Less labor cost.

Disadvantages:

- Lack of internet/connectivity issues.

- Added cost of internet and internet gateway infrastructure.
- Farmers wanted to adapt the use of Mobile App.

Conclusion

Thus the objective of the project to implement an IoT system in order to help farmers to control and monitor their farms has been implemented successfully.

Bibliography

IBM cloud reference: <https://cloud.ibm.com/>

IoT simulator : <https://watson-iot-sensor-simulator.mybluemix.net/> OpenWeather : <https://openweathermap.org/>