IOT ENABLED SMART FARMINGAPPLICATION SPRINT DELIVERY – 4

PROGRAM

```html
<!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&family=Inter:wght@100;200;300;400;500;531;600;700;800;900&family=Lobster&family=Montserrat:wght@1,500;600;700&family=Oxygen:wght@300;400;700&family=Raleway:ital,wght@0,100;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/animate.min.css"/>
    <link href="css/ekko-lightbox.css">
    <link rel="stylesheet" href="css/style.css">
  <title>Document</title>
```

```html
  <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">
        <img class="img-responsive" src="images/Example logo.png" alt="Logo">
      </a>
      <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#collapsibleNavbar">
        <span class="navbar-toggler-icon"></span>
```

```html
    </button>
    <div class="collapse navbar-collapse" id="collapsibleNavbar">
      <ul class="navbar-nav ml-auto">
        <li class="nav-item">
          <a class="nav-link active" href="index.html">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="store.html">Store</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="factories.html">Factories</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="team.html">Team</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="partners.html">Partners</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="contact.html">Contact</a>
        </li>
      </ul>
    </div>
```

```html
    </div>
  <!-- /container -->


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

```html
  <!-- 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>
  <!-- /Home page content -->
  </div>
  <!-- /bg-img -->
```

```html
</div>
<!-- /view -->
```

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

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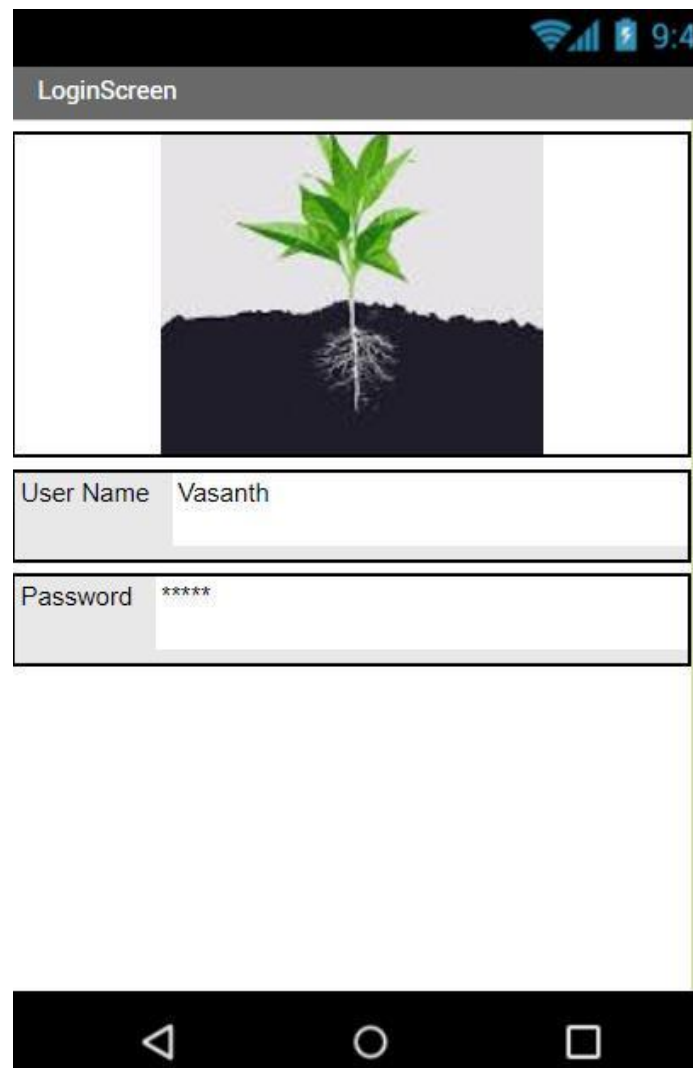
```
    <script src="js/ekko-lightbox.min.js"></script>

    <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.

Disadvantaes:

- 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 helpfarmers 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/