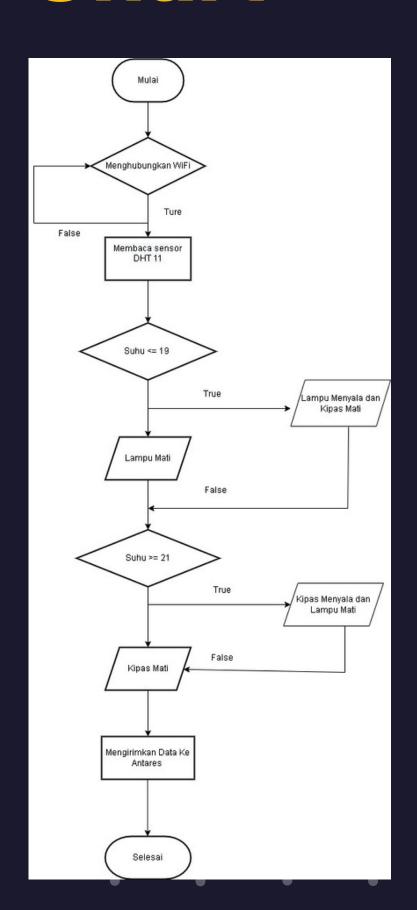
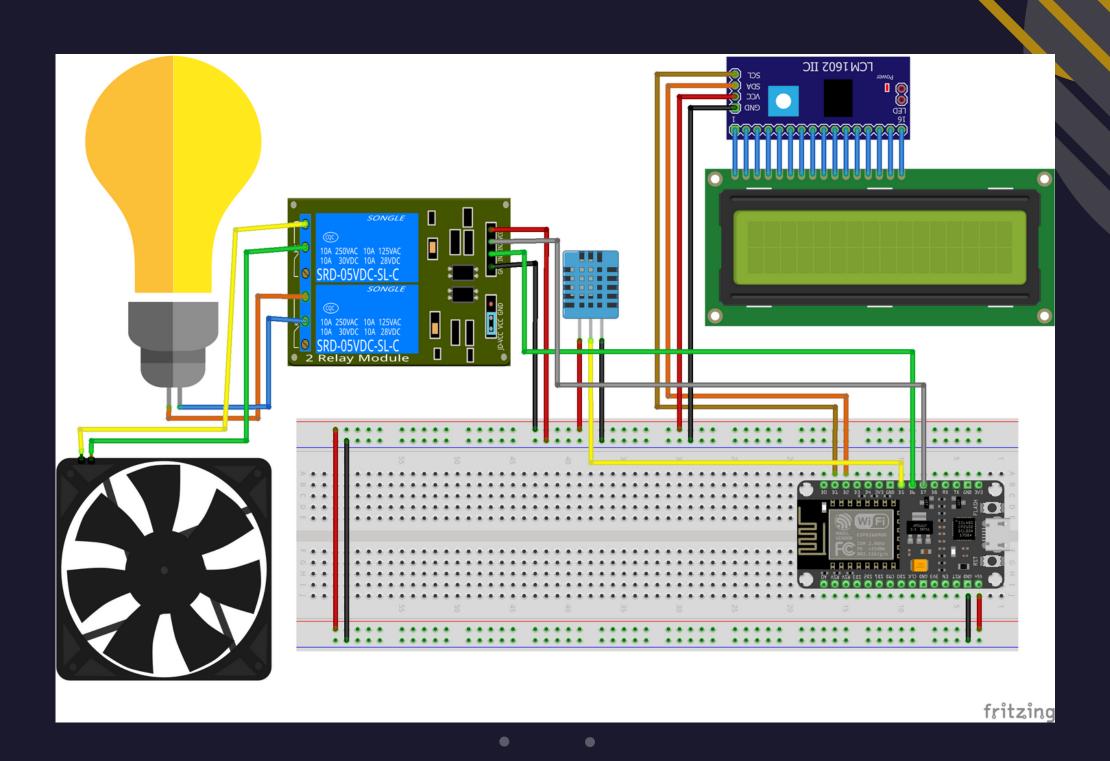


Flow Chart



WIRING DIAGRAM







FRONT-END & BACK-END

INDEX.HTML

```
<!DOCTYPE html>
                                                                                                                                                                                      <div class="margin-bottom">
<html lang="en">
                                                                                                                                                                                        <div class="card">
                                                                                                                                                                                          <div class="content">
   <meta charset="UTF-8" />
                                                                                                                                                                                             <div class="card-text">
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
                                                                                                                                                                                              <h4>Kipas</h4>
   <link rel="stylesheet" type="text/css" href="style.css" />
                                                                                                                                                                                              <!-- <i class="fa-brands fa-instagram"></i> -->
   <script src="https://kit.fontawesome.com/77fa727d74.js" crossorigin="anonymous"></script>
                                                                                                                                                                                              <div class="card-image">
    <script src="script.js" defer></script>
                                                                                                                                                                                                <div class="icon">
   <title>SMART PLANT TEMPERATURE CONTROL</title>
                                                                                                                                                                                                  <i class="fa-solid fa-fan"></i></i>
   <section class="sec">
     <div class="toggle" onclick="darkmode()"><span class="darklight">Dark</span></div>
                                                                                                                                                                                              <div class="value">
                                                                                                                                                                                                <h4 id="kipas">--</h4>
                                                                                              <div class="card">
      <h1><span class="auto-input">SMART PLANT TEMPERATURE CONTROL</span></h1>
                                                                                                <div class="content">
                                                                                                                                                                                              <div class="slide">
                                                                                                  <div class="card-text">
     <div class="margin-top">
                                                                                                    <h4>Kelembaban</h4>
                                                                                                                                                                                                <label class="switch">
       <div class="card">
                                                                                                    <div class="card-image">
                                                                                                                                                                                                  <input type="checkbox" id="switchkipas" onchange="nilaikipas(this.checked)" ,</pre>
         <div class="content">
                                                                                                      <div class="icon">
                                                                                                                                                                                                   <span class="slider round"></span>
           <div class="card-text">
                                                                                                       <i class="fa-solid fa-water"></i></i>
             <h4>Suhu</h4>
             <div class="card-image">
                                                                                                                                                                                              </div>
                                                                                                    </div>
               <div class="icon">
                                                                                                    <div class="value">
                <i class="fa-solid fa-temperature-half"></i></i>
                                                                                                                                                                                          </div>
                                                                                                     <h4 id="kelembaban">--</h4>
                                                                                                                                                                                        </div>
                                                                                                                                                                                      </div>
                                                                                                  </div>
             <div class="value">
                                                                                                                                                                                    </section>
              <h4 id="suhu">--</h4>
                                                                                                                                                                                 </body>
                                                                                              <div class="card">
                                                                                                <div class="content">
                                                                                                  <div class="card-text">
                                                                                                    <h4>Lampu</h4>
                                                                                                    <div class="card-image">
                                                                                                     <div class="icon">
                                                                                                       <i class="fa-regular fa-lightbulb"></i>
                                                                                                    </div>
                                                                                                    <div class="value">
                                                                                                     <h4 id="lampu">--</h4>
                                                                                                    <div class="slide">
```

<input type="checkbox" id="switchlampu" onchange="nilailampu(this.checked)"</pre>

</label>
</div>
</div>

STYLE.CSSAM

```
@import url("https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;300;400;500;600;800;900&display=swap");
 margin: 0;
 padding: 0;
 box-sizing: border-box;
 font-family: "Poppins", sans-serif;
 background: linear-gradient(315deg, ■#ffffff, 0%, ■#d7e1ec 74%);
 min-height: 100vh;
 display: flex;
 justify-content: center;
 align-items: center;
 transition: background 0.5s;
section.dark {
 background: □#24292d;
section .card {
 display: flex;
 justify-content: center;
 align-items: center;
 position: relative;
 width: 300px;
 height: 410px;
 background: #fff;
 box-shadow: 0 15px 25px □rgba(0, 0, 0, 0.25);
 border-radius: 16px;
```

```
43 section .card .content,
44 v section .card .card-text {
       display: flex;
       justify-content: center;
       align-items: center;
       flex-direction: column;
51 v section .card .card-text .card-image {
       display: inline-block;
       width: 120px;
       height: 120px;
       border-radius: 50%;
       margin-bottom: 15px;
       background: linear-gradient(315deg, ■#ffffff, 0%, ■#d7e1ec 74%);
     section.dark .card .card-text .card-image {
       transition: all 0.3s ease-out;
       background: □#24292d;
65 v section .card .card-text .card-image .icon {
       display: inline-block;
       text-align: center;
       border-radius: 50%;
       box-sizing: border-box;
       height: 120px;
       width: 120px;
       line-height: 120px;
       font-size: 50px;
```

```
76 v section .card .card-text h4 {
        font-weight: 700;
 78
        width: 200px;
        height: 30px;
        font-size: 1.2em;
        text-align: center;
        margin-bottom: 20px;
        line-height: 30px;
 84
 86 ∨ section .card .card-text .value {
        margin-top: 30px;
        font-size: 30px;
 91 ∨ section .card .card-text ul {
        margin-bottom: 20px;
 95 ∨ section.dark .card .card-text {
        color: ■#ccc;
 99 ∨ section .card .button {
        align-items: center;
        justify-content: center;
        display: inline-block;
        height: 40px;
104
        width: 40px;
        margin: 0 5px;
        background: #fff;
        border-radius: 50px;
        cursor: pointer;
       box-shadow: 1px 10px 10px □rgba(0, 0, 0, 0.1)
```

STYLE.CSSAM

```
114 v section.dark .card .button {
        background: □#404852;
116
        color: □#fff;
118
119 ∨ section .card .button .icon {
        display: inline-block;
121
        height: 40px;
122
        width: 40px;
123
        border-radius: 50px;
124
        text-align: center;
125
        box-sizing: border-box;
126
        line-height: 40px;
127
128
129 v section .card .button:hover {
        width: 150px;
131 }
132
133 ∨ section .card .button:hover .icon {
        background: ■#e1306c;
135
        transition: all 0.3s ease-out;
136
        color: #fff;
137 }
138
139 ∨ section .card .content a {
        list-style-type: none;
        text-decoration: none;
        color: inherit;
145 ∨ section .card .button .icon i {
        font-size: 25px;
147 line-height: 40px;
```

```
section .card .button .icon i {
        font-size: 25px;
        line-height: 40px;
148
149
      section .card .button span {
        font-weight: 500;
        margin-left: 5px;
        transition: all 0.3s ease-out;
      section .toggle {
        position: absolute;
        top: 20px;
        right: 20px;
        background: ■#e9f5ff;
        width: 100px;
        height: 40px;
        border-radius: 50px;
        display: flex;
        justify-content: center;
        align-items: center;
        cursor: pointer;
      section.dark .toggle {
171
       background: □#404852;
172
        color: ■white;
173
174
175
      .toggle:before {
        content: "\f186";
        font-family: fontAwesome;
```

```
180 ∨ section.dark .toggle:before {
        content: "\f185";
        color: #fff;
185 ∨ section .toggle .darklight {
        margin-left: 10px;
        user-select: none;
190 ∨ section .head {
        position: absolute;
        top: 50px;
        width: 800px;
        height: 60px;
        font-size: 25px;
        text-align: center;
199 ∨ section.dark .head {
        color: ■#ccc;
203 ∨ @media screen and (max-width: 1020px) {
204 v section {
          align-content: space-between;
          justify-content: space-around;
          flex-direction: column;
210 🗸
        section .margin-top {
211
          margin-top: 300px;
212
```

```
section .margin-bottom {
215
          margin-bottom: 100px;
216
217
218 🗸
        section .toggle {
219
          position: absolute;
220
          top: 240px;
221
          bottom: 0;
222
          right: auto;
223
224
225 🗸
        section .head {
226
          width: 300px;
          height: 150px;
228
229
230
      /* The switch - the box around the slider */
232 ∨ .switch {
233
        position: relative;
234
        display: inline-block;
        width: 60px;
236
        height: 34px;
237
238
      /* Hide default HTML checkbox */
240 ∨ .switch input {
241
        opacity: 0;
242
        width: 0;
        height: 0;
244 }
245
```

STYLE. CSSAN

```
.slider {
        position: absolute;
       cursor: pointer;
        top: 0;
       left: 0;
       right: 0;
       bottom: 0;
       background-color: ■#ccc;
        -webkit-transition: 0.4s;
       transition: 0.4s;
      .slider:before {
       position: absolute;
       content: "";
       height: 26px;
       width: 26px;
       left: 4px;
       bottom: 4px;
       background-color: ☐white;
        -webkit-transition: 0.4s;
        transition: 0.4s;
270
      input:checked + .slider {
       background-color: ■#2196f3;
274
      input:focus + .slider {
        box-shadow: 0 0 1px ■#2196f3;
278
      input:checked + .slider:before {
        -webkit-transform: translateX(26px);
```

```
271 vinput:checked + .slider {
        background-color: ■#2196f3;
272
273
274
275 vinput:focus + .slider {
        box-shadow: 0 0 1px ■#2196f3;
276
277
278
279 vinput:checked + .slider:before {
        -webkit-transform: translateX(26px);
280
        -ms-transform: translateX(26px);
281
        transform: translateX(26px);
282
283
284
      /* Rounded sliders */
285
286 v .slider.round {
        border-radius: 34px;
287
288
289
290 v .slider.round:before {
        border-radius: 50%;
291
292
293
```

SCRIPT.JS AM

```
function darkmode() {
 const element = document.querySelector(".darklight");
 const sec = document.querySelector(".sec");
 const toggle = document.querySelector(".toggle");
 sec.classList.toggle("dark");
 if (element.innerHTML === "Dark") {
   element.innerHTML = "Light";
   element.innerHTML = "Dark";
var lampu = 0;
var kipas = 0;
setInterval(function () {
 fetch("https://smart-temp.herokuapp.com/api")
    .then((hasil) => hasil.json())
    .then((res) => {
     console.log(res);
     document.getElementById("suhu").innerHTML = res.temperature.toString() + "°C";
     document.getElementById("kelembaban").innerHTML = res.humidity.toString() + "%";
      if (res.lampu == 1) {
       lampu = 1;
       document.getElementById("lampu").innerHTML = value = "ON";
       document.getElementById("switchlampu").checked = true;
      } else {
       lampu = 0;
       document.getElementById("lampu").innerHTML = value = "OFF";
       document.getElementById("switchlampu").checked = false;
      if (res.kipas == 1) {
       kipas = 1;
        document.getElementById("kipas").innerHTML = value = "ON";
```

```
if (res.kipas == 1) {
32 🗸
            kipas = 1;
             document.getElementById("kipas").innerHTML = value = "ON";
             document.getElementById("switchkipas").checked = true;
           } else {
            kipas = 0;
             document.getElementById("kipas").innerHTML = value = "OFF";
             document.getElementById("switchkipas").checked = false;
41
        });
42
     }, 1000);
44 ∨ function nilailampu(value) {
45 v if (value == true) {
        value = "ON";
47
        lampu == 1;
48 v } else {
49
         value = "OFF";
         lampu = 0;
51
       document.getElementById("lampu").innerHTML = value;
55 v function nilaikipas(value) {
       if (value == true) value = "ON";
57
       else value = "OFF";
       document.getElementById("kipas").innerHTML = value;
```

SERVER.JSAM

```
JS server.js
JS server.js > ...
  const express = require("express");
      const app = express();
      const path = require("path");
      const port = process.env.PORT | 80;
      const staticpath = path.join(__dirname, "/");
      var antares = require("antares-http");
       app.use(express.static(staticpath));
 11
      app.get("/", function (req, res) {
        res.sendFile(staticpath + "/index.html");
  12
 13
      });
  14
 15
       app.get("/api", function (req, res) {
        antares.setAccessKey("3b71941b4e3ba492:e952e7b073875cb5");
        antares.get("smart-plant-temprature-control", "sensor1").then(function (response) {
  17
          const data = response.content;
  18
          res.json(data);
  19
        });
 21
      });
  22
      app.listen(port);
```

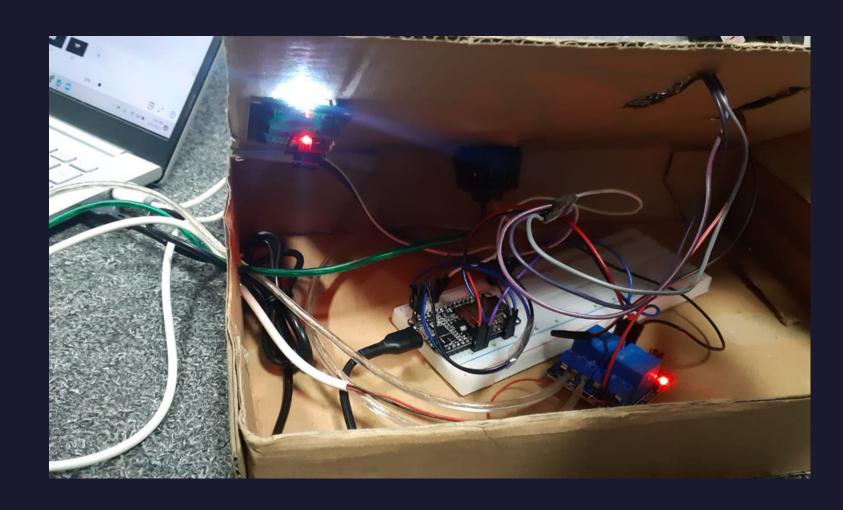


TAMPILAN

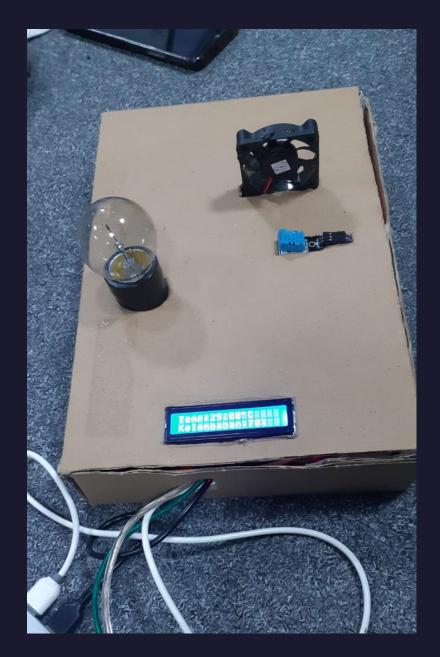
Prototype & Website



TAMPILAN PROTOTYPE

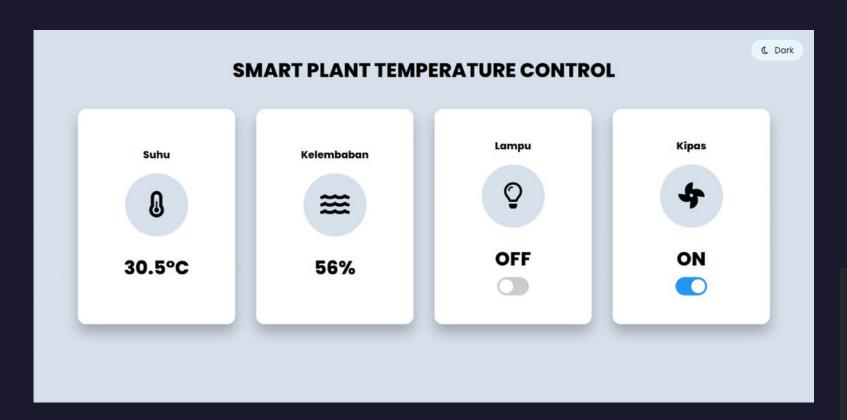


Bagian Dalam Alat



Bagian Luar Alat

TAMPILAN WEBSITE



Mode Light



Mode Dark

TERIMA KASIH