Project Development Phase

SPRINT-3

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Sprint Description :

       The Main WebUi of the Project This part consists of the main WebUI of the project, the page's flow goes as, Homepage -> Login Page -> Dashboard.

Homepage

The home page Explains about the project and has a button "Get Started", which brings us to the login page.

Login Page

Login Page consists User ID and Password Input box, where only one user is allowed to use the page, which is predefined in the code. These is no Create account option, because this is an Industry project where the Water Quality Monitoring authorities of Government can only access the Data and Control the motor.

Dashboard

Dashboard consists of three pages in Navigation bar, Where they have three option. They have have a look into The primary Parameters like pH, Turbidity and Stuffs. Second, They can access the secondary parameters, and atlast they have motor controls, where they can turn on and of the motors.

HOME PAGE CODING:

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Watermonitoring</title>
</head>
<style>
*{
box-sizing: border-box;
padding: 0%;
margin: 0%;
}
.content{
position: fixed;
bottom: 0;
background: rgba(0, 0, 0, 0.5);
color: #f1f1f1;
width: 100%;
padding: 50px;
font-size: 24px;
}
p{
padding-top: 10px;
font-size: 18px;
}
button{
width: 180px;
font-size: 18px;
padding: 10px;
background: lightgreen;
color: black;
cursor: pointer;
border: 2px solid green;
border-radius: 50px;
margin-top: 10px;
}
button:hover{
```

```
background-color: green;
color: black;
}
.content1{
background-image: url('./h1.png');
background-size: cover;
background-repeat: no-repeat;
height: 100vh;
}
</style>
<body>
<section class="home">
<div class="content1">
<div class="content">
<h1>Real-Time River Water Quality Monitoring and Control System </h1>
<p> Can be able to know if there are any dust particles present in the water.
The PH level of the water can be monitored.
Water temperature can be monitored.
Alerting the authorities if the water quality is not good so that they can go and announce the
localities not to drink that water.</p>
<a href="./ibmlogin.html"><button>Get Started</button></a>
</div>
</div>
</section>
</body>
</html>
```

LOGIN PAGE CODING:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>login</title>
<link rel="icon" href="./icon.png">
</head>
<style>
*{
padding: 0%;
margin: 0%;
```

```css
    box-sizing: border-box;
    font-family:'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
}
body{
height: 100vh;
background: url('./login1.jpg');
background-repeat: no-repeat;
background-size: cover;
}
.container{
background: rgba(16, 15, 15, 0.338);
backdrop-filter: blur(10px);
width: 25%;
min-width:285px;
padding:20px 10px 20px 8px;
transform: translate(-50%,-50%);
position: absolute;
left: 50%;
top: 50%;
align-items:center;
border-radius: 15px;
box-shadow: 20px 30px 25px rgba(0,0,0,0.5);
}
h1{
font-size: 30px;
text-align: center;
color: white;
}
form{
width: 80%;
position: relative;
margin: 30px ;
align-items: center;
}
.row{
width: 100%;
display: grid;
grid-template-rows: repeat(auto-fit,minmax(1fr));
grid-gap: 20px 30px;
margin-bottom: 20px;
}
```

```css
label{
color: white;
font-size: 18px;
}
input[type=text],input[type=password] {
width: 100%;
font-size: 14px;
font-weight: 400;
padding: 8px 10px;
border-radius: 5px;
border:1.2px solid #c4cae0;
margin-top: 5px;
}
input:focus{
outline: none;
border-color: #6f6df4;
}
button{
border: none;
padding: 10px 20px;
width: 150px;
background: linear-gradient(130deg,#6f6df4,#3e38d7);
color: white;
border-radius: 10px;
font-weight: bold;
font-size: 16px;
text-align: center;
cursor: pointer;
}
button:hover{
border: none;
padding: 10px 20px;
width: 150px;
background: linear-gradient(130deg,#3e38d7,#6f6df4,white);
color: white;
border-radius: 10px;
font-weight: bold;
font-size: 16px;
text-align: center;
cursor: pointer;
}
```

```
.button{
text-align: center;
}
.column{
color: whitesmoke;
}
</style>
<body>
<div class="container">
<h1>GET IN TOUCH</h1>
<form action="https://node-red-xiqgh.eu-
gb.mybluemix.net/ui/#!/0?socketid=6Cmd757eVn6rjFPEAAC8" onsubmit="return
validateuser()">
<div class="row">
<div class="column">
<label for="uname">Username</label>
<input type="text" id="uname" placeholder="Enter username here" required title="Please
enter valid username" oninvalid="this.setCustomValidity('username is reqired')"
oninput="this.setCustomValidity('')" >
</div>
<div class="column">
<label for="password">Password</label>
<input type="password" id="password" placeholder="Enter your password" required >
</div>
<div class="column">
<input type="checkbox" id="show" onclick="myFunction()"> Show Password</div>
<div class="button">
</div>
<div class="button">
<button>Submit</button>
</div>
</form>
</div>
</body>
<script>
function validateuser(){
var user=document.getElementById('uname').value;
var password=document.getElementById('password').value;
if(user=="PNT2022TMID30308" && password==="admin@water"){
alert('login successful')
}
else{
```

```
alert('login failed')
return false;
}
}
function myFunction() {
var show = document.getElementById("password");
if (show.type === "password") {
show.type = "text";
} else {
show.type = "password";
}
}
</script>
</html>

</script>
</html>
```

NODE RED DASHBOARD CODING:

<!DOCTYPE html> <!--
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--> <!-- <html> --> <html> <!-- manifest="dashboard.appcache"> --> <head> <meta charset="utf-8"> <meta name="viewport" content="width=device-width,initial-scale=1"> <meta name="apple-mobile-web-app-capable" content="yes"> <meta name="apple-mobile-web-app-status-bar-style" content="black-translucent"> <meta name="apple-mobile-web-app-title" content="Node-RED"> <meta name="mobile-web-app-capable" content="yes"> <meta name="theme-color" content="#097479"> <meta http-equiv="X-UA-Compatible" content="IE=edge"> <link rel="manifest" href="manifest.json" crossorigin="use-credentials"> <link rel="icon" sizes="192x192" href="icon192x192.png"> <link rel="shortcut icon" type="image/png" href="icon64x64.png"> <link rel="apple-touch-icon" href="icon120x120.png"> <link rel="stylesheet" href="css/app.min.css"> <link rel="stylesheet/less"

href="css/app.min.less"> <title></title> </head> <body id="nr-dashboard" ng-app="ui" ng-controller="MainController as main" ng-cloak layout="column" style="background: {{main.backgroundColor}}" class="nr-dashboard-theme" ng-swipe-right="onSwipeRight();" ng-swipe-left="onSwipeLeft();" ng-attr-ng-swipe-disable-mouse="{{main.allowSwipe !== 'mouse' ? '' : undefined}}"> <md-content ng-if="main.loaded" ng-include="'partials/main.html'" layout="column" flex></md-content> <div ng-if="!main.loaded && !main.nothing" ng-include="'loading.html'" class="node-red-ui--loading"></div> <div ng-if="main.nothing" class="node-red-ui--notabs"> <table><tr><td><center><img src="icon120x120.png"></center></td></tr> <tr><td><center><h2>Welcome to the Node-RED Dashboard</h2></center></td></tr> <tr><td><center>Please add some UI nodes to your flow and redeploy.</center></td></tr></table> </div> <script src="socket.io/socket.io.js"></script> <script src="js/app.min.js"></script> <script src="i18n.js"></script> </body> </html>

OUTPUT: