



**AQUATIC INSIGHTS:
COGNOS –POWERED WATER
PORTABILITY ANALYSIS**



Beyond Knowledge

IBM NAAN MUDHALVAN

PROJECT REPORT

Submitted By

SARAVANAPRIYA SV 611220104132

SILAMBARASAN TR 611220104140

SNEKHA J 611220104144

SOUNDARYA S 611220104146

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

KNOWLEDGE INSTITUTE OF TECHNOLOGY,

SALEM-637504

ANNA UNIVERSITY::CHENNAI 600 025

IBM
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BONAFIDE CERTIFICATE

Certified that this project report titled “**AQUATIC INSIGHTS: COGNOS – POWERED WATER PORTABILITY ANALYSIS** ” is the bonafide work of **“SARAVANAPRIYA SV (611220104132), SILAMBARASAN TR (611220104140), SNEKHA J (611220104144) and SOUNDARYA S (611220104146)** ” who carried out the project work under my supervision.

SIGNATURE

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IBM FACULTY MENTOR

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SPOC

HOD

ACKNOWLEDGEMENT

At the outset, we express our heartfelt gratitude to **GOD**, who has been our strength to bring this project to light.

At this pleasing moment of having successfully completed our project, we wish to convey our sincere thanks and gratitude to our beloved President **Mr. C. BALAKRISHNAN**, who has provided all the facilities to us.

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ABSTRACT

ABSTRACT

The "AQUATIC INSIGHTS" project aims to revolutionize water portability analysis through the integration of IBM Cognos, a powerful business intelligence and data analytics platform. Access to clean and safe drinking water is a fundamental human right, and ensuring water quality is essential to public health and environmental sustainability. Traditional methods for monitoring water quality are often time-consuming and require extensive manual labor. To address these challenges, our project leverages the advanced capabilities of IBM Cognos to create a data-driven solution for efficient and accurate water portability analysis.

The project encompasses the development of a comprehensive data management system that collects real-time water quality data from various sources, including sensors, laboratories, and remote monitoring stations. This data is stored, processed, and visualized using IBM Cognos, enabling stakeholders to gain deep insights into water quality, identify trends, and make decisions.

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LIST OF ABBREVIATIONS

ABBREVIATIONS

EXPANSION

CSV COMMA SEPARATED VALUE

CSS CASCADING STYLE SHEETS

LIST OF TABLES

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INTRODUCTION

CHAPTER –1

INTRODUCTION

1.1 INTRODUCTION

The project aims to establish an efficient and comprehensive system for monitoring water quality. Traditional methods of water quality monitoring can be time-consuming and manual. AQUATIC INSIGHTS uses technology to automate data collection and analysis, making the process more efficient. By using IBM Cognos, the project aims to perform in-depth data analysis, allowing for accurate and real-time assessment of water portability. This is crucial for ensuring that drinking water is safe for consumption and identifying potential issues promptly.

AQUATIC INSIGHTS seeks to integrate data from various sources, including sensors, labs, and remote monitoring stations. This integration enables a more holistic understanding of water quality by considering data from multiple points and sources. The project also intends to use predictive modeling to anticipate potential water quality issues. This proactive approach helps in preventing water contamination or degradation before it becomes a serious problem.

1.2 PURPOSE

The project helps ensure compliance with water quality regulations and standards by providing an advanced system for data management and reporting. This is particularly important for regulatory bodies and water management organizations.

AQUATIC INSIGHTS aligns with the United Nations Sustainable Development Goal 6 (Clean Water and Sanitation) by working toward the provision of clean and safe drinking water, a fundamental human right.

The purpose of AQUATIC INSIGHTS is to use IBM Cognos and data-driven techniques to improve water portability analysis, protect public health, enhance environmental sustainability, and contribute to the broader goal of ensuring access to clean water resources for communities worldwide.

LITERATURE SURVEY

CHAPTER -2

LITERATURE SURVEY

1) Water quality assessment of Ponds around two Cement Factories of Assam, India.

Water is one of the most indispensable resources and is the elixir of life. Water constitutes about 70% of the body weight of almost all living organism¹. Fresh water has a great role in sustenance of life of human beings, other organisms of the environment and maintaining the balance of nature. Water resources are being used by human being for various purposes like agriculture, industries, hydropower, fisheries and recreational uses². Freshwater is a very limited resource and makes up less than 2.8% of the water supply and water is a wonderful chemical medium which has unique properties of dissolving and carrying in suspension, huge varieties of chemicals. Thus it gets contaminated easily and if water is fecally polluted it spreads diseases in consumers to a great number of peoples³. Due to tremendous development of industry and agriculture, the water ecosystem has become perceptibly altered in several respects in recent years and as such they are exposed to all local disturbances regardless of where they occur⁴. The impurities may be suspended particles, colloidal materials and may also be dissolved cationic and anionic substances.

2) Visualization and Visual Analytics Applications in Water Insights

Recent advances in information, communication, and environmental monitoring technologies have increased the availability, spatiotemporal resolution, and quality of water-related data, thereby leading to the emergence of many innovative big data applications.

Among these applications, visualization and visual analytics, also known as the visual computing techniques, empower the synergy of computational methods (e.g., machine learning and statistical models) with human reasoning to improve the understanding and solution toward complex science and engineering problems. These approaches are frequently integrated with geographic information systems and cyber infrastructure to provide new opportunities and methods for enhancing water resources management.

3) Healthy catchments, quality water – always

Consultation during development of the plan highlighted community expectation that the government act to provide a secure supply of water. The NSW Government's aim is to ensure that reliable supplies remain available and affordable while populations grow and conditions change. In addition, the government aims for this supply to be delivered in the most cost efficient and sustainable way. Secure supplies of quality water are needed for drinking, farming, industry and residential use, and for sustaining the health of our rivers and wetlands.

IDEATION & PROPOSED SOLUTION

CHAPTER – 3

IDEATION & PROPOSED SOLUTION

3.1 PROBLEM STATEMENT DEFINITION

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	I am a customer	drinking water crisis that appears	It takes long time to solve	It took too much time to solve	Frustrated
PS-2	I am a Customer	drinking water crisis that appears	It takes long time to solve	It hard to buying drinking water	Annoying

Table No. 3.1.1 Problem Statement Definition

3.2 EMPATHY MAP CANVAS

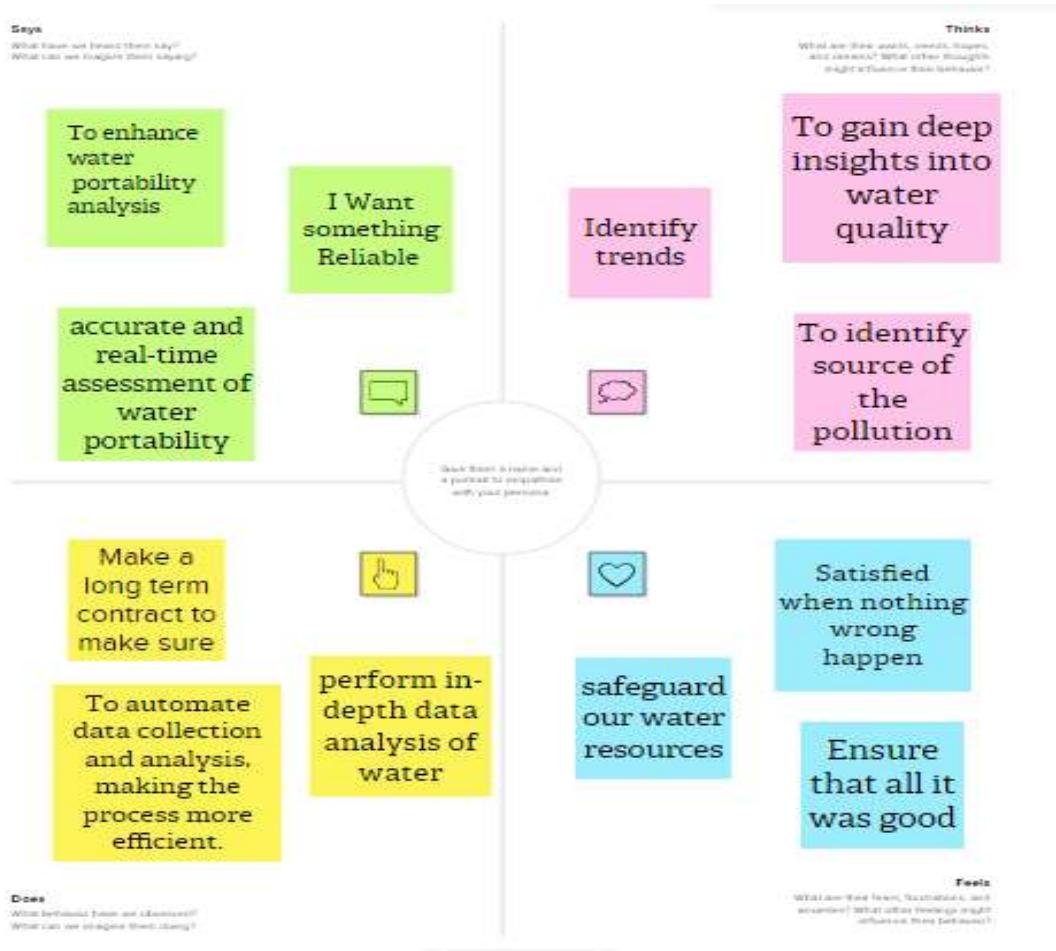


Fig. No. 3.2 Empathy Map

3.3 BRAIN STORMING & IDEA PRIORITIZATION

3.3.1 Team Gathering, Collaboration and Select the Problem Statement

The screenshot shows a template for 'Brainstorm & idea prioritization'. On the left, there's a sidebar with a blue vertical bar labeled 'Template' at the top. Inside the sidebar, there's a lightbulb icon with wavy lines, followed by the title 'Brainstorm & idea prioritization'. Below the title, a text block says: 'Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.' At the bottom of the sidebar, there are three time-related icons: a clock (10 minutes to prepare), a person (1 hour to collaborate), and a group (2-8 people recommended).

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

⌚ 10 minutes

1 Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

⌚ 5 minutes

PROBLEM

We all know the importance of water, and I do not find any reason to repeat what everybody has said about the benefits of drinking water (water equals life itself). We all certainly know that there is a drinking water crisis that appears in many countries, to the extent that many Countries buying drinking water and transport it through water tankers, and the crisis will be worsen in the future

Key rules of brainstorming

To run an smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

Fig. No. 3.3.1 a Collaboration and Select the Problem Statement

Step-2: Brainstorm, Idea Listing and Grouping

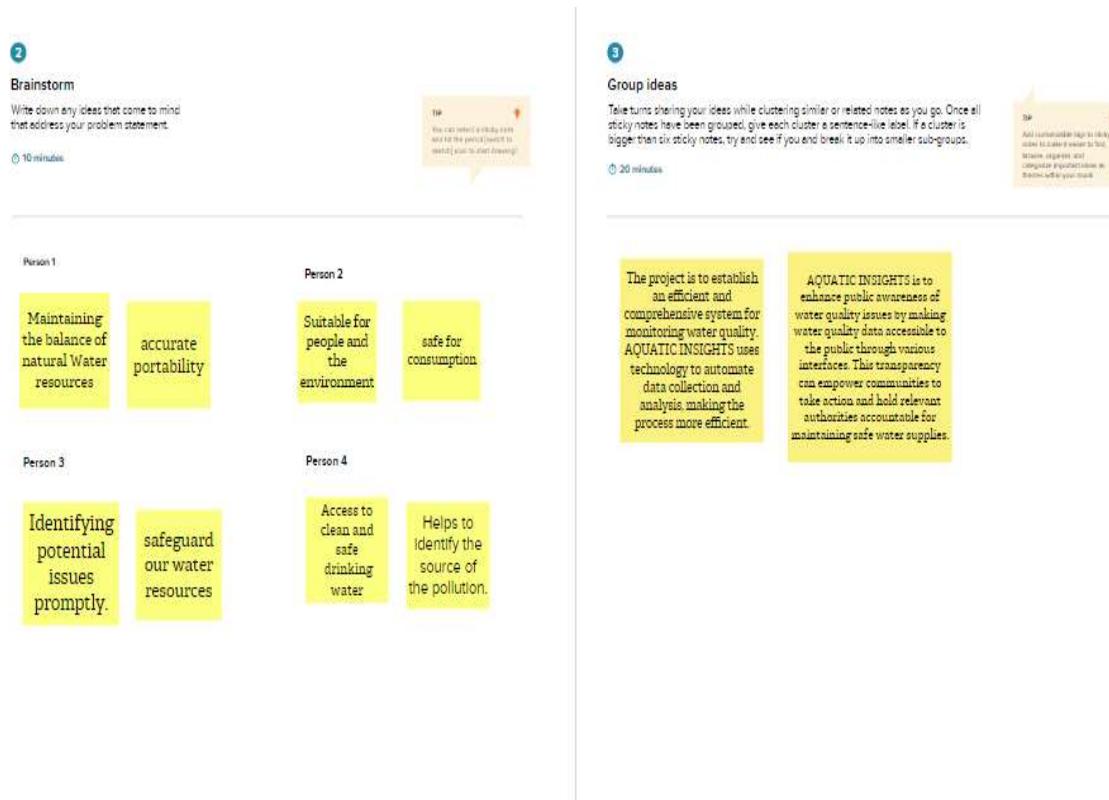


Fig. No. 3.3.1 b Brainstorm, Idea Listing and Grouping

Step-3: Idea Prioritization

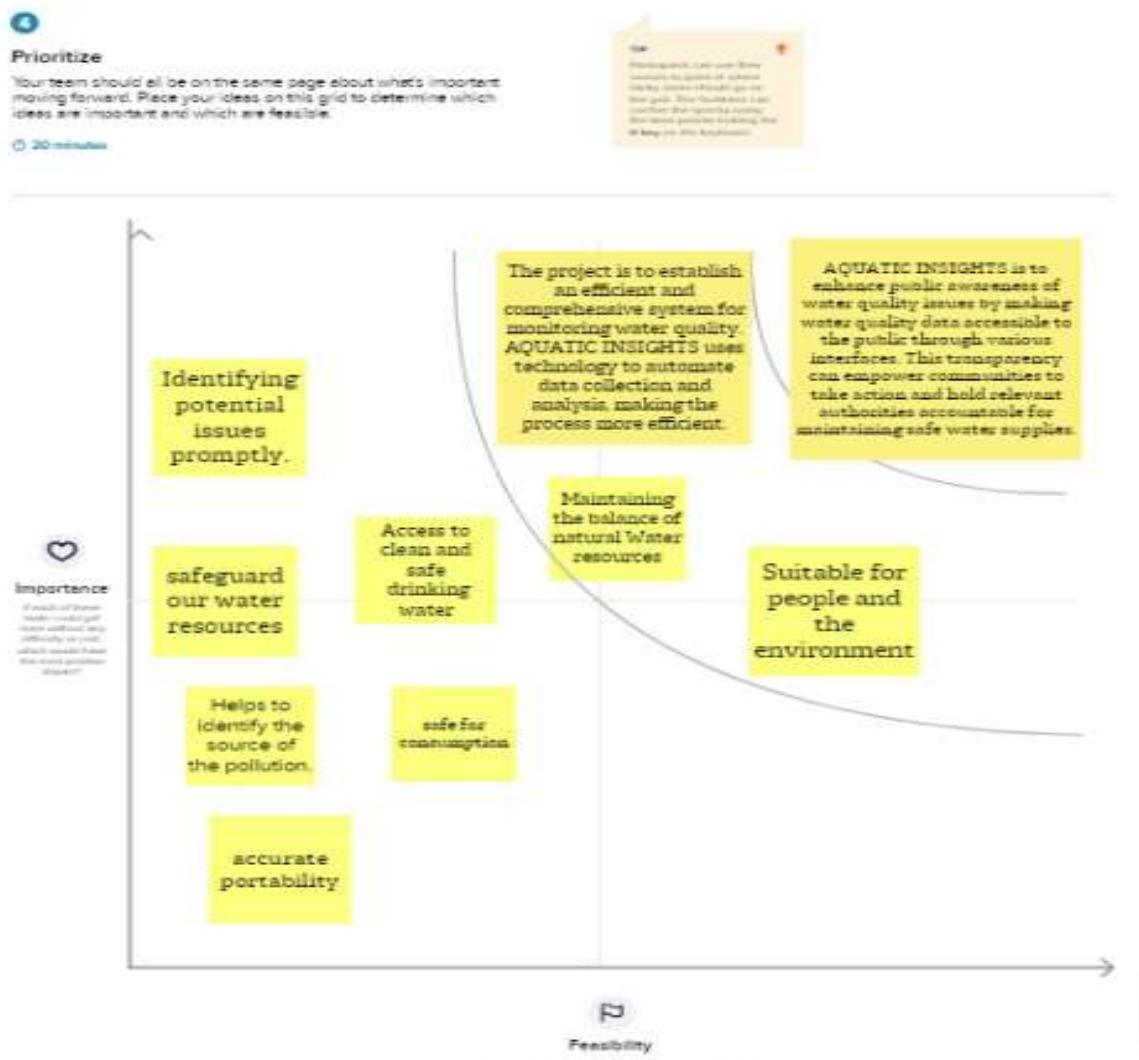


Fig. No. 3.3.1 c Idea Prioritization

3.4 PROPOSED SOLUTION

S. No.	Parameter	Description
1	Problem Statement (Problem to be solved)	We all certainly know that there is a drinking water crisis that appears in many countries to the extent that many Countries buying drinking water and transport it through water tankers, and the crisis will be worsen in the future
2	Idea / Solution description	To ensuring water quality is essential to public health and environmental sustainability
3	Novelty / Uniqueness	This project will be done by all sources and Supported by all Versions of Windows.
4	Social Impact / Customer Satisfaction	To perform in-depth data analysis, allowing for accurate and real-time assessment of water portability.
5	Business Model (Revenue Model)	The technology to automate data collection and analysis, making the process more efficient.
6	Scalability of the Solution	It working toward the provision of clean and safe drinking water, a fundamental human right.

Table. No. 3.4 Proposed Solution

REQUIREMENT ANALYSIS

CHAPTER - 4

REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

FR. No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User login	Login through website link
FR-2	login	The user should login to the website of our project
FR-3	Frames	Cognos used to analysis dataset.
FR-4	Dataset	Uploaded in cognos for analysis.
FR-5	Analysis	It involves gathering all the information, processing it and exploring the data, then analysis the dataset for user output.

Table. No. 4.1 Functional Requirements

4.2 NON - FUNCTIONAL REQUIREMENTS

FR. No.	Non-Functional Requirement	Description
NFR-1	Usability	It can provide valuable data on the condition of a particular body of water, and whether it may need special treatment before use.
NFR-2	Reliability	when each water source, each node, and each pipe carry the same amount of chlorine
NFR-3	Performance	It has high state of performance and efficiency
NFR-4	Availability	Availability of Secure, Efficient, Reliable system
NFR-5	Scalability	Satisfy customers and providing more benefits to the users

Table. No. 4.2 Non -Functional Requirements

PROJECT DESIGN

CHAPTER -5

PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS

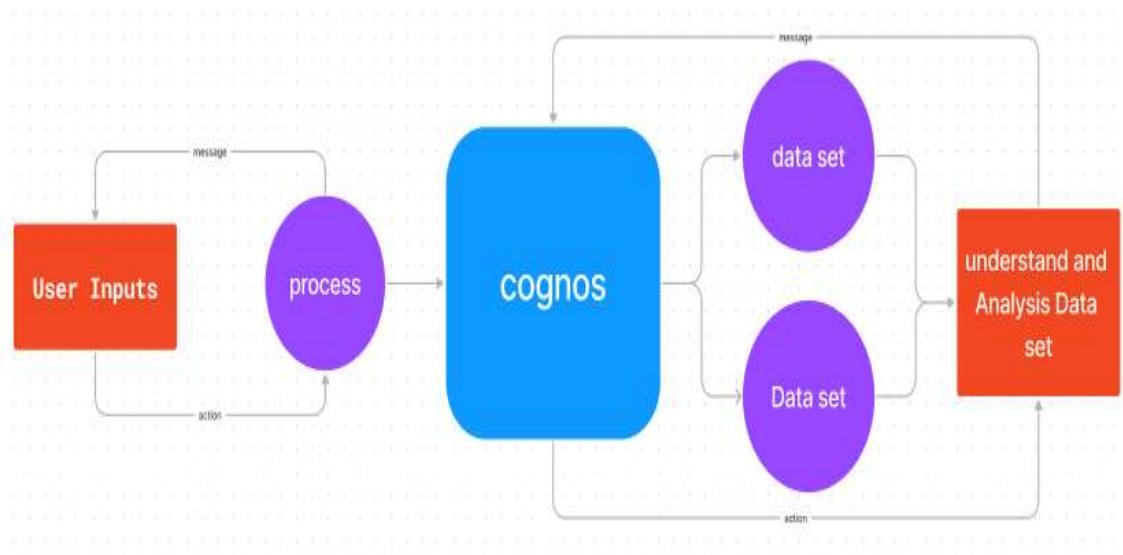


Fig. No. 5.1 Data Flow Diagrams

5.2 USER STORIES

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Customer (user)	login	USN-1	As a user, I can log into the application by entering my email & password	I can access my pass	High	Silambarasan
	Dashboard	USN-2	I can see and upload the dataset	Cognos analysis	High	Snekha
Admin		USN-3	If the user already used the Cognos analytics, we can able to see the previously uploaded dataset		High	Soundarya
Admin		USN-4	As an admin, I can access the dashboard other activities of the application	Access the dashboard	High	Saravanapriya

Table. No. 5.2 User Stories

5.3 SOLUTION & TECHNICAL ARCHITECTURE

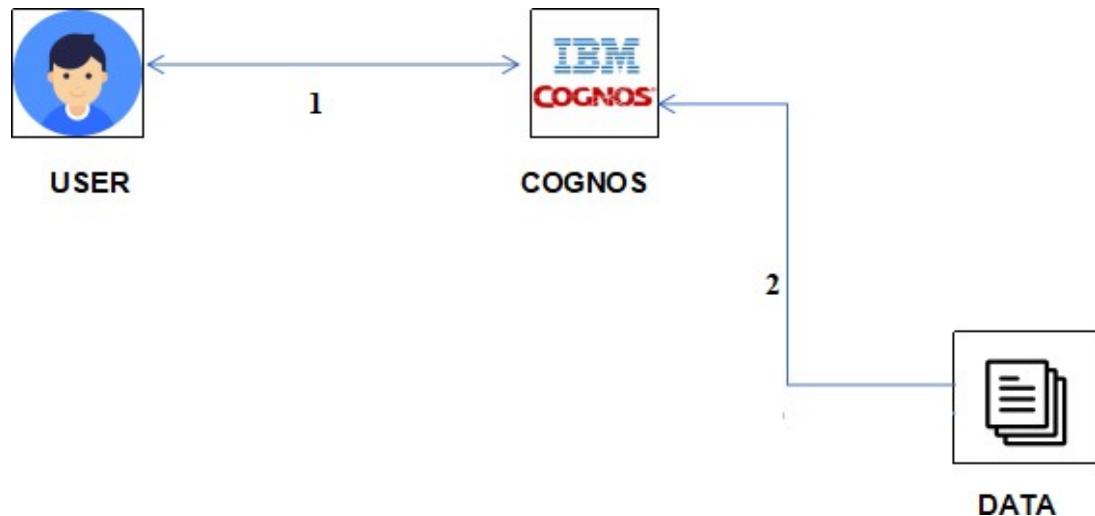


Fig. No. 5.3 Solution Architecture

5.3.1 Components & Technologies

S. No.	Component	Description	Technology
1.	User Interface	How user interacts with application	HTML, CSS
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	CSV
4.	Database	Data Type, Configurations etc.	MySQL
5.	File Storage	Dataset	Csv dataset file
6.	Outcome of analysis process	The user will see the visualization through display.	cognos

Table. No. 5.3.1 Components & Technologies

5.3.2 Application Characteristics

S. No.	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python, php, HTML, CSS
2.	Security Implementations	Secure storage and access of information	Database
3.	Scalable Architecture	It can access through all versions of Windows	Python
4.	Availability	Availability of Secure, Efficient, Reliable system	Cognos end by end visualization
5.	Performance	Those approaches are frequently integrated with geographic information systems provide new opportunities and methods for enhancing water resources management.	Data analysis

Table. No. 5.3.2 Application Characteristics

CODING & SOLUTIONING

CHAPTER -6

CODING & SOLUTIONING

6.1 FEATURE 1

Data visualizations

The forecasting feature provides time series data modeling and forecasts based on data presented in corresponding visualizations. IBM Cognos Analytics provides a number of recommended visualizations based on the data that you are working with.

6.2 FEATURE 2

Data Analytics

In Cognos Analytics, the numeric algorithms and procedures are designed to produce trustworthy results automatically. To get the best possible prediction, classification or analysis, a professional statistician analyzes the data by using IBM SPSS Statistics or IBM SPSS Modeler.

RESULTS

CHAPTER - 7

RESULTS

7.1 PERFORMANCE METRICS

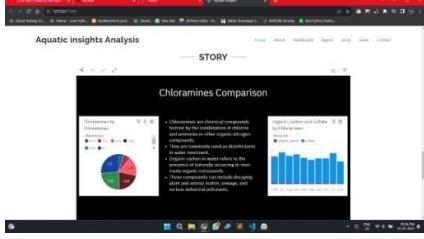
S.NO	Parameter	Values
1.	Dashboard design	<ol style="list-style-type: none">1. No of ph by sulphate2. No of ph by solids3. No of trihalomethanes by hardness4. No of chloramines by chloramines
2.	Data Responsiveness	

Table. No. 7.1 PERFORMANCE METRICS

ADVANTAGES AND DISADVANTAGES

CHAPTER – 8

ADVANTAGES AND DISADVANTAGES

ADVANTAGES

- These include dissolved oxygen, turbidity, bioindicators, nitrates, pH scale and water temperature. Let us consider the purpose of monitoring water quality in more detail. Monitoring water quality helps to identify specific pollutants, a certain chemical, and the source of the pollution.
- Help to ensure that water supplies meet relevant health and safety standards, protecting consumers from potential harm

DISADVANTAGES

- There will need to be testing at multiple locations if the area to be studied is large. Continual assessments of the water's quality will be difficult and time-consuming. Consequently, a real-time monitoring system is needed to safeguard the water and keep track of its condition in order to stop contamination.
- They are usually developed based on site-specific guidelines for a particular region, and are therefore not generic.

CONCLUSION

CHAPTER – 9

CONCLUSION

The project helps ensure compliance with water quality regulations and standards by providing an advanced system for data management and reporting. This is particularly important for regulatory bodies and water management organizations. And to enhance public awareness of water quality issues by making water quality data accessible to the public through various interfaces. This transparency can empower communities to take action and hold relevant authorities accountable for maintaining safe water supplies.

In summary, the purpose of AQUATIC INSIGHTS is to use IBM Cognos and data-driven techniques to improve water portability analysis, protect public health, enhance environmental sustainability, and contribute to the broader goal of ensuring access to clean water resources for communities worldwide.

FUTURE SCOPE

CHAPTER – 10

FUTURE SCOPE

The forecasting feature provides time series data modeling and forecasts based on data presented in corresponding visualizations. IBM Cognos Analytics provides a number of recommended visualizations based on the data that you are working with. And the numeric algorithms and procedures are designed to produce trustworthy results automatically.

The future scope of this project is monitoring environmental conditions, drinking water quality, treatment and disinfection of waste water etc. This system could also be implemented in various industrial processes. Colour, turbidity, total solids, dissolved solids, suspended solids, odour and taste are recorded. Colour in water may be caused by the presence of minerals such as iron and manganese or by substances of vegetable origin such as algae and weeds. Colour tests indicate the efficacy of the water treatment system.

APPENDIX

CHAPTER – 11

APPENDIX A.1

A.1 SOURCE CODE

Index.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="utf-8">
    <meta content="width=device-width, initial-scale=1.0" name="viewport">
    <script src="https://kit.fontawesome.com/949563e343.js"
    crossorigin="anonymous"></script>
    <title>Aquatic insights </title>
    <meta content="" name="description">
    <meta content="" name="keywords">

    <!-- Favicon -->
    <link href="/static/img/favicon.png" rel="icon">
    <link href="/static/img/apple-touch-icon.png" rel="apple-touch-icon">

    <!-- Google Fonts -->
    <link
        href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Raleway:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,300i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">
```

```

<!-- Vendor CSS Files -->
<link href="/static/vendor/aos/aos.css" rel="stylesheet">
<link href="/static/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
<link href="/static/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
<link href="/static/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="/static/vendor/glightbox/css/glightbox.min.css" rel="stylesheet">
<link href="/static/vendor/remixicon/remixicon.css" rel="stylesheet">
<link href="/static/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">

<!-- Template Main CSS File -->
<link href="/static/css/style.css" rel="stylesheet">
<link rel="stylesheet"
      href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-grid/5.2.3/css/bootstrap-grid.min.css" integrity="sha512-JQksK36WdRekVrvdxNyV3B0Q1huqbTkIQNbz1dlcFVgNynEMRl0F8OSqOGdVppLUDIvsOejhr/W5L3G/b3J+8w==" crossorigin="anonymous" referrerpolicy="no-referrer" />
<link rel="stylesheet"
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<link rel="stylesheet"
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```

S+syaR2oO3aXJGKaHv21Dspx0g== crossorigin="anonymous" referrerpolicy="no-referrer" />

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.2.3/css/bootstrap-reboot rtl.min.css" integrity="sha512-MWXegIfPaJ2ht1ccssKjDqUk4DDiTyoKQqb4zGNEAXqUfP8ukuEtxraKdo7nko3m+4mY+ZXlPOUX6y4SV0VXPA==" crossorigin="anonymous" referrerpolicy="no-referrer" />

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.2.3/css/bootstrap-utilities.min.css" integrity="sha512-DEGBrwaCF4lkKzMKNwt8Qe/V54bmJctk7I1HyfINGAIugDvsdBeuWzAWZmXAmM49P6EBfl/OeUM01U3r7cW4jg==" crossorigin="anonymous" referrerpolicy="no-referrer" />

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.2.3/css/bootstrap-utilities.rtl.min.css" integrity="sha512-1W/oJs3Mky37ftCexP/qGfEA5rEjkxtZb6dbxfqr2lGUSJzbrqYkIPZPrQdrsnZbH0Rj9Y6nsxyp4mgmvGbZew==" crossorigin="anonymous" referrerpolicy="no-referrer" />

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<link rel="stylesheet"

```
href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.2.3/css/bootstrap rtl.min.css"
    integrity="sha512-
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udwipXfqEhsKMMgRZGCDw==" crossorigin="anonymous" referrerpolicy="no-
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referrer"></script>

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referrerpolicy="no-referrer"></script>

<script
    src="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.2.3/js/bootstrap.esm.min.js"
    integrity="sha512-
ruQ4xi8Jfep9W+qJQ8FLbxsjPVR0WvEt31XNw0mZxri2Nya9eQr7VTFsi+S7Ov
W0bIUI7vxF8zoaPNSq/PsvxA==" crossorigin="anonymous" referrerpolicy="no-
referrer"></script>

<!-- =====
* Template Name: Vesperr
* Updated: Mar 10 2023 with Bootstrap v5.2.3
* Template URL: https://bootstrapmade.com/vesperr-free-bootstrap-template/
* Author: BootstrapMade.com
```

```

* License: https://bootstrapmade.com/license/
=====
-->

</head>

<body>
<!-- ===== Header ===== -->
<header id="header" class="fixed-top d-flex align-items-center">
  <div class="container d-flex align-items-center justify-content-between">

    <div class="logo">
      <h1><a href="index.html">Aquatic insights <span>Analysis</span></a></h1>
      <!-- Uncomment below if you prefer to use an image logo -->
    </div>

    <nav id="navbar" class="navbar" aria-label="navigation">
      <ul>
        <li><a class="nav-link scrollto active" href="#hero">Home</a></li>
        <li><a class="nav-link scrollto" href="#about">About</a></li>
        <li><a class="nav-link scrollto" href="#Dashboard">Dashboard</a></li>
        <li><a class="nav-link scrollto" href="#Report">Report</a></li>
        <li><a class="nav-link scrollto" href="#Story">Story</a></li>
        <li><a class="nav-link scrollto" href="#team">Team</a></li>
        <li><a class="nav-link scrollto" href="#contact">Contact</a></li>
      </ul>
      <i class="bi bi-list mobile-nav-toggle"></i>
    </nav><!-- .navbar -->

```

```
</div>

</header><!-- End Header -->

<!-- ===== Hero Section ===== -->
<section id="hero" class="d-flex align-items-center">

    <div class="container">
        <div class="row">
            <div class="col-lg-6 pt-5 pt-lg-0 order-2 order-lg-1 d-flex flex-column justify-content-center">
                <h1 data-aos="fade-up">WELCOME TO Aquatic insights
                <span>Analysis</span></h1>
                <h2 data-aos="fade-up" data-aos-delay="400">Discover the hidden wonders of
                the aquatic world with us! Aquatic Insights is your gateway to a world teeming with
                life beneath the waves. Whether you're a seasoned marine enthusiast or just dipping
                your toes into the world of aquatics, our mission is to inspire, educate, and empower
                you on your journey to explore the mysteries of our planet's oceans, rivers, and
                lakes.</h2>
                <div data-aos="fade-up" data-aos-delay="800">
                    <a href="#Dashboard" class="btn-get-started scrollto">Get Started</a>
                </div>
            </div>
            <div class="col-lg-6 order-1 order-lg-2 hero-img" data-aos="fade-left" data-aos-delay="200">
                
            </div>
        </div>
    </div>
</section>
```

```

</div>
</div>

</section><!-- End Hero -->

<!-- ===== About Us Section ===== -->
<section id="about" class="about">
<div class="container">

<div class="section-title" data-aos="fade-up">
<h2>About Us</h2>
</div>

<!-- ===== Counts Section ===== -->
<section id="counts" class="counts">
<div class="container">

<div class="row">
<div class="image col-xl-5 d-flex align-items-stretch justify-content-center
justify-content-xl-start" data-aos="fade-right" data-aos-delay="150">

</div>

<div class="col-xl-7 d-flex align-items-stretch pt-4 pt-xl-0" data-aos="fade-
left" data-aos-delay="300">
<div class="content d-flex flex-column justify-content-center">
<div class="row">

```

<p>

Our dedicated team of marine experts and educators are here to provide you with a wealth of knowledge, from marine life identification to aquarium setup and maintenance, scuba diving adventures, and conservation efforts. Dive into our blog for the latest insights, tips, and stories from the deep.

</p>

Learn More

</div>

<div class="col">

<div class="col-md-6 d-md-flex align-items-md-stretch">

<div class="count-box">

<i class="bi bi-journal-richtext"></i>

<h5>BETTER AQUATIC INSIGHTS ANALYTICS

</h5>

<p> Get ready to dive in, and let the aquatic adventures begin. We're excited to have you as part of our community!</p>

</div>

</div>

<div class="col-md-6 d-md-flex align-items-md-stretch">

<div class="count-box">

<i class="bi bi-award"></i>

<h5>ANALYTICS TOOL </h5>

<p>This is a great analytics tool to analyze Aquatic Insights data, you get insightful Dashboard, Report, Story.</p>

</div>

```

</div>

</div>
</div><!-- End .content-->
</div>
</div>
</div>

</div>
</section><!-- End Counts Section -->

<!-- ===== Services Section ===== -->
<section id="Dashboard" class="services">
<div class="container">

<div class="section-title" data-aos="fade-up">
<h2>Dashboard</h2>
<iframe
src="https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.m
y_folders%2Ffinancial%2Bdashboard&closeWindowOnLastView=true&ui_
appbar=false&ui_navbar=false&shareMode=embedded&action=v
iew&mode=dashboard&subView=model00000188259c0f90_00000002"
width="1000" height="700" frameborder="0" gesture="media" allow="encrypted-
media" allowfullscreen=""></iframe>
</div>

</div>

```

```

</section>
<!-- End Services Section -->

<!-- ===== Portfolio Section ===== -->
<section id="Report" class="portfolio">
  <div class="container">

    <div class="section-title" data-aos="fade-up">
      <h2>Report</h2>
      <iframe
        src="https://us1.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2FAquatic%2Binsights%2Breport&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embedded&action=edit" width="1000"
        height="700" frameborder="0" gesture="media" allow="encrypted-media"
        allowfullscreen=""></iframe>
    </div>

  </div>
</section><!-- End Portfolio Section -->
<!-- ===== Portfolio Section ===== -->
<section id="Story" class="portfolio">
  <div class="container">

    <div class="section-title" data-aos="fade-up">
      <h2>Story</h2>
      <iframe
        src="https://us1.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_fol

```

```

ders%2FAquatic%2Binsights%2Bstory&closeWindowOnLastView=true&
ui_appbar=false&ui_navbar=false&shareMode=embedded&action=v
iew&sceneId=model0000018b47380c9c_00000000&sceneTime=5000"
width="1000" height="700" frameborder="0" gesture="media" allow="encrypted-
media" allowfullscreen=""></iframe>

</div>

</div>
</section><!-- End Portfolio Section -->

<!-- ===== Contact Section ===== -->
<section id="contact" class="contact">
  <div class="container">

    <div class="section-title" data-aos="fade-up">
      <h2>Contact Us</h2>
    </div>

    <div class="row">

      <div class="col-lg-6 col-md-6" data-aos="fade-up" data-aos-delay="100">
        <div class="contact-about">
          <h3>Aquatic Insights<span>Development</span></h3>
        </div>
        <div class="info1"></div>
        <div class="info">
          <div>
            <a href="#" class="linkedin"><i class="fa-brands fa-linkedin"></i></a>

```

```
<p>SILAMBARASAN TR <span></span></p>
</div>

<div>
  <a href="#" class="linkedin"><i class="fa-brands fa-linkedin"></i></a>
  <p>SNEKHA J</p>
</div>
<div>
  <a href="#" class="linkedin"><i class="fa-brands fa-linkedin"></i></a>
  <p>SOUNDARYA S</p>
</div>
<div>
  <a href="#" class="linkedin"><i class="fa-brands fa-linkedin"></i></a>
  <p>SARAVANA PRIYA SVS</p>
</div>
</div>
</div>

<div class="col-lg-6 col-md-6 mt-4 mt-md-0" data-aos="fade-up" data-aos-delay="200">
  <div class="info">
    <div>
      <i class="fa-sharp fa-solid fa-location-dot"></i>
      <p>KNOWLEDGE INSTITUTE OF TECHNOLOGY<br>SALEM -
637504</p>
    </div>
    <div>
      <i class="fa-solid fa-envelope"></i>
      <p>2k20cse142@kiot.ac.in</p>
    
```

```

</div>

<div>
    <i class="fa-solid fa-phone"></i>
    <p>+91 9876543210</p>
</div>
</div>
</div>
</div>

</div>
</section><!-- End Contact Section -->

</main><!-- End #main -->

<!-- ===== Footer ===== -->
<footer id="footer">
    <div class="container">
        <div class="row d-flex align-items-center">
            <div class="col-lg-6 text-lg-left text-center">
                <div class="copyright">
                    &copy; Copyright <strong>Aquatic Insights</strong>. All Rights Reserved
                </div>
                <div class="credits">
                    <!-- All the links in the footer should remain intact. -->
                    <!-- You can delete the links only if you purchased the pro version. -->
                    <!-- Licensing information: https://bootstrapmade.com/license/ -->
                    <!-- Purchase the pro version with working PHP/AJAX contact form:
                        https://bootstrapmade.com/vesperr-free-bootstrap-template/ -->
                </div>
            </div>
        </div>
    </div>
</footer>

```

```

<p>Designed by Aquatic Insights<span>Sense</span> - Team</p>
</div>
</div>
<div class="col-lg-6">
  <nav class="footer-links text-lg-right text-center pt-2 pt-lg-0" aria-
label="navigation">
    <a href="#about" class="scrollto bjlv">About</a>
    <a href="#Dashboard" class="scrollto bjlv">Dashboard</a>
    <a href="#Report" class="scrollto bjlv">Report</a>
    <a href="#Story" class="scrollto bjlv">Story</a>
    <a href="#team" class="scrollto bjlv">Team</a>
  </nav>
</div>
</div>
</div>
</div><!-- End Footer -->

<a href="#hero" class="back-to-top d-flex align-items-center justify-content-
center"><i class="bi bi-arrow-up-short"></i></a>

<!-- Vendor JS Files -->
<script src="/static/vendor/purecounter/purecounter_vanilla.js"></script>
<script src="/static/vendor/aos-aos.js"></script>
<script src="/static/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="/static/vendor/glightbox/js/glightbox.min.js"></script>
<script src="/static/vendor/isotope-layout/isotope.pkgd.min.js"></script>
<script src="/static/vendor/swiper/swiper-bundle.min.js"></script>
<script src="/static/vendor/php-email-form/validate.js"></script>

```

```

<!-- Template Main JS File -->
<script src="/static/js/main.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js">
</script>
</body>
</html>

Style.css
/***
 * Template Name: Vesperr
 * Updated: Sep 18 2023 with Bootstrap v5.3.2
 * Template URL: https://bootstrapmade.com/vesperr-free-bootstrap-template/
 * Author: BootstrapMade.com
 * License: https://bootstrapmade.com/license/
 */

/*-----
# General
-----*/
body {
    font-family: "Open Sans", sans-serif;
    color: #444444;
}
a {
    color: #3498db;
    text-decoration: none;
}

```

```
a:hover {  
    color: #5faee3;  
    text-decoration: none;  
}  
  
h1,  
h2,  
h3,  
h4,  
h5,  
h6 {  
    font-family: "Raleway", sans-serif;  
}  
  
/*-----  
# Back to top button  
-----*/  
.back-to-top {  
    position: fixed;  
    visibility: hidden;  
    opacity: 0;  
    right: 15px;  
    bottom: 15px;  
    z-index: 996;  
    background: #3498db;  
    width: 40px;
```

```
height: 40px;  
border-radius: 4px;  
transition: all 0.4s;  
}
```

```
.back-to-top i {  
font-size: 28px;  
color: #fff;  
line-height: 0;  
}
```

```
.back-to-top:hover {  
background: #57aae1;  
color: #fff;  
}
```

```
.back-to-top.active {  
visibility: visible;  
opacity: 1;  
}
```

```
/*-----  
# Disable AOS delay on mobile  
-----*/  
@media screen and (max-width: 768px) {  
[data-aos-delay] {
```

```
    transition-delay: 0 !important;
}
}

/*
-----#
# Header
-----*/
#header {
    z-index: 997;
    transition: all 0.5s;
    padding: 22px 0;
    background: #fff;
}

#header.header-scrolled {
    box-shadow: 0px 2px 15px rgba(0, 0, 0, 0.1);
    padding: 12px 0;
}

#header .logo h1 {
    font-size: 30px;
    margin: 0;
    padding: 0;
    line-height: 1;
    font-weight: 700;
    letter-spacing: 1px;
}
```

```
#header .logo h1 a,  
#header .logo h1 a:hover {  
    color: #222222;  
    text-decoration: none;  
}  
  
#header .logo img {  
    padding: 0;  
    margin: 0;  
    max-height: 40px;  
}  
  
/*-----  
 * Navigation Menu  
-----*/  
/**  
 * Desktop Navigation  
 */  
.navbar {  
    padding: 0;  
}  
  
.navbar ul {  
    margin: 0;  
    padding: 0;  
    display: flex;
```

```
list-style: none;  
align-items: center;  
}  
  
}
```

```
.navbar li {  
position: relative;  
}  
  
.navbar a,  
.navbar a:focus {  
display: flex;  
align-items: center;  
justify-content: space-between;  
padding: 10px 0 10px 30px;  
font-size: 15px;  
font-weight: 400;  
color: #555555;  
white-space: nowrap;  
transition: 0.3s;  
}  
  
}
```

```
.navbar a i,  
.navbar a:focus i {  
font-size: 12px;  
line-height: 0;
```

```
margin-left: 5px;
```

```
}
```

```
.navbar a:hover,
```

```
.navbar .active,
```

```
.navbar .active:focus,
```

```
.navbar li:hover>a {
```

```
color: #3498db;
```

```
}
```

```
.navbar .getstarted,
```

```
.navbar .getstarted:focus {
```

```
background: #3498db;
```

```
padding: 8px 25px;
```

```
margin-left: 30px;
```

```
border-radius: 50px;
```

```
color: #fff;
```

```
}
```

```
.navbar .getstarted:hover,
```

```
.navbar .getstarted:focus:hover {
```

```
color: #fff;
```

```
background: #4aa3df;
```

```
}
```

```
.navbar .dropdown ul {
```

```
display: block;  
position: absolute;  
left: 30px;  
top: calc(100% + 30px);  
margin: 0;  
padding: 10px 0;  
z-index: 99;  
opacity: 0;  
visibility: hidden;  
background: #fff;  
box-shadow: 0px 0px 30px rgba(127, 137, 161, 0.25);  
transition: 0.3s;  
border-radius: 4px;  
}  
  
}
```

```
.navbar .dropdown ul li {  
min-width: 200px;  
}
```

```
.navbar .dropdown ul a {  
padding: 10px 20px;  
font-size: 14px;  
}
```

```
.navbar .dropdown ul a i {  
font-size: 12px;  
}
```

```
.navbar .dropdown ul a:hover,  
.navbar .dropdown ul .active:hover,  
.navbar .dropdown ul li:hover>a {  
    color: #3498db;  
}
```

```
.navbar .dropdown:hover>ul {  
    opacity: 1;  
    top: 100%;  
    visibility: visible;  
}
```

```
.navbar .dropdown .dropdown ul {  
    top: 0;  
    left: calc(100% - 30px);  
    visibility: hidden;  
}
```

```
.navbar .dropdown .dropdown:hover>ul {  
    opacity: 1;  
    top: 0;  
    left: 100%;  
    visibility: visible;  
}
```

```
@media (max-width: 1366px) {
```

```
.navbar .dropdown .dropdown ul {  
    left: -90%;  
}  
  
.navbar .dropdown .dropdown:hover>ul {  
    left: -100%;  
}  
}  
  
/**  
 * Mobile Navigation  
 */  
.mobile-nav-toggle {  
    color: #222222;  
    font-size: 28px;  
    cursor: pointer;  
    display: none;  
    line-height: 0;  
    transition: 0.5s;  
}  
  
.mobile-nav-toggle.bi-x {  
    color: #fff;  
}  
  
@media (max-width: 991px) {
```

```
.mobile-nav-toggle {  
    display: block;  
}  
  
.navbar ul {  
    display: none;  
}  
}  
  
.navbar-mobile {  
    position: fixed;  
    overflow: hidden;  
    top: 0;  
    right: 0;  
    left: 0;  
    bottom: 0;  
    background: rgba(9, 9, 9, 0.9);  
    transition: 0.3s;  
    z-index: 999;  
}  
  
.navbar-mobile .mobile-nav-toggle {  
    position: absolute;  
    top: 15px;  
    right: 15px;  
}
```

```
.navbar-mobile ul {  
    display: block;  
    position: absolute;  
    top: 55px;  
    right: 15px;  
    bottom: 15px;  
    left: 15px;  
    padding: 10px 0;  
    border-radius: 8px;  
    background-color: #fff;  
    overflow-y: auto;  
    transition: 0.3s;  
}  
  
.navbar-mobile a,  
.navbar-mobile a:focus {  
    padding: 10px 20px;  
    font-size: 15px;  
    color: #222222;  
}  
  
.navbar-mobile a:hover,  
.navbar-mobile .active,  
.navbar-mobile li:hover>a {  
    color: #3498db;  
}  
  
.navbar-mobile .getstarted,  
.navbar-mobile .getstarted:focus {
```

```
margin: 15px;  
}  
.navbar-mobile .dropdown ul {  
position: static;  
display: none;  
margin: 10px 20px;  
padding: 10px 0;  
z-index: 99;  
opacity: 1;  
visibility: visible;  
background: #fff;  
box-shadow: 0px 0px 30px rgba(127, 137, 161, 0.25);  
}  
.navbar-mobile .dropdown ul li {  
min-width: 200px;  
}  
.navbar-mobile .dropdown ul a {  
padding: 10px 20px;  
}  
.navbar-mobile .dropdown ul a i {  
font-size: 12px;  
}  
.navbar-mobile .dropdown ul a:hover,  
.navbar-mobile .dropdown ul .active:hover,  
.navbar-mobile .dropdown ul li:hover>a {
```

```
color: #3498db;  
}  
.navbar-mobile .dropdown>.dropdown-active {  
    display: block;  
}  
/*-----  
# Hero Section  
-----*/  
  
#hero {  
    width: 100%;  
    height: 70vh;  
    margin-top: 70px;  
}  
  
#hero h1 {  
    margin: 0 0 10px 0;  
    font-size: 48px;  
    font-weight: 700;  
    line-height: 56px;  
    color: black;  
}  
  
#hero h2 {  
    color: #484848;  
    margin-bottom: 50px;  
    font-size: 24px;  
}
```

```
#hero .btn-get-started {  
    font-family: "Raleway", sans-serif;  
    font-weight: 500;  
    font-size: 16px;  
    letter-spacing: 1px;  
    display: inline-block;  
    padding: 10px 30px;  
    border-radius: 50px;  
    transition: 0.5s;  
    color: #3498db;  
    border: 2px solid #3498db;  
}  
  
#hero .btn-get-started:hover {  
    background: #3498db;  
    color: #fff;  
}  
  
#hero .animated {  
    animation: up-down 2s ease-in-out infinite alternate-reverse both;  
}  
  
@media (min-width: 1024px) {  
    #hero {  
        background-attachment: fixed;  
    }  
}  
  
@media (max-width: 991px) {  
    #hero {
```

```
height: 100vh;  
}  
  
#hero .animated {  
    animation: none;  
}  
  
#hero .hero-img {  
    text-align: center;  
}  
  
#hero .hero-img img {  
    width: 50%;  
}  
}  
  
@media (max-width: 768px) {  
    #hero {  
        margin-top: 20px;  
    }  
  
    #hero h1 {  
        font-size: 28px;  
        line-height: 36px;  
    }  
  
    #hero h2 {  
        font-size: 18px;  
        line-height: 24px;  
        margin-bottom: 30px;  
    }  
  
    #hero .hero-img img {
```

```
width: 70%;  
}  
}  
  
@media (max-width: 575px) {  
    #hero .hero-img img {  
        width: 80%;  
    }  
}  
  
@keyframes up-down {  
    0% {  
        transform: translateY(10px);  
    }  
  
    100% {  
        transform: translateY(-10px);  
    }  
}  
  
/*-----  
# Sections General  
-----*/  
  
section {  
    padding: 60px 0;  
    overflow: hidden;  
}  
.section-bg {
```

```
background-color: #f7fbfe;  
}  
.section-title {  
text-align: center;  
padding-bottom: 30px;  
}  
.section-title h2 {  
font-size: 32px;  
font-weight: bold;  
text-transform: uppercase;  
position: relative;  
color: #222222;  
}  
.section-title h2::before,  
.section-title h2::after {  
content: "";  
width: 50px;  
height: 2px;  
background: #3498db;  
display: inline-block;  
}  
.section-title h2::before {  
margin: 0 15px 10px 0;  
}  
.section-title h2::after {  
margin: 0 0 10px 15px;
```

```
}

.section-title p {
    margin: 15px 0 0 0;
}

/*-----
# Clients
-----*/
.clients {
    background: #f3f9fd;
    padding: 10px 0;
    text-align: center;
}

.clients .col-lg-2 {
    display: flex;
    align-items: center;
    justify-content: center;
}

.clients img {
    width: 50%;
    filter: grayscale(100);
    transition: all 0.4s ease-in-out;
    display: inline-block;
    padding: 10px 0;
}

.clients img:hover {
    filter: none;
}
```

```
    transform: scale(1.1);  
}  
  
@media (max-width: 768px) {  
    .clients img {  
        width: 40%;  
    }  
}  
  
@media (max-width: 575px) {  
    .clients img {  
        width: 30%;  
    }  
}  
/*-----  
# About Us  
-----*/  
  
.about .content h3 {  
    font-weight: 600;  
    font-size: 26px;  
}  
  
.about .content ul {  
    list-style: none;  
    padding: 0;  
}  
  
.about .content ul li {  
    padding-left: 28px;
```

```
position: relative;  
}  
.btn-get-started,.btn-learn-more{  
    text-decoration: none;  
}  
.about .content ul li+li {  
    margin-top: 10px;  
}  
.about .content ul i {  
    position: absolute;  
    left: 0;  
    top: 2px;  
    font-size: 20px;  
    color: #3498db;  
    line-height: 1;  
}
```

```
.about .content p:last-child {  
    margin-bottom: 0;  
}  
.about .content .btn-learn-more {  
    font-family: "Raleway", sans-serif;  
    font-weight: 600;  
    font-size: 14px;  
    letter-spacing: 1px;  
    display: inline-block;
```

```
padding: 12px 32px;  
border-radius: 50px;  
transition: 0.3s;  
line-height: 1;  
color: #3498db;  
animation-delay: 0.8s;  
margin-top: 6px;  
border: 2px solid #3498db;  
}  
.about .content .btn-learn-more:hover {  
background: #3498db;  
color: #fff;  
text-decoration: none;  
}  
/*-----  
# Counts  
-----*/  
.counts {  
padding-top: 0;  
display: flex;  
justify-content: flex-start;  
align-items: center;  
}  
.counts .content {  
padding: 0;  
}
```

```
.counts .content h3 {  
    font-weight: 700;  
    font-size: 34px;  
    color: #222222;  
}  
  
.counts .content p {  
    margin-bottom: 0;  
    position: relative;  
}  
.counts .content .count-box {  
    padding: 20px 0;  
    width: 100%;  
}  
.counts .content .count-box i {  
    display: block;  
    font-size: 36px;  
    color: #3498db;  
    float: left;  
    line-height: 0;  
}  
.counts .content .count-box span {  
    font-size: 36px;  
    line-height: 30px;  
    display: block;  
    font-weight: 700;
```

```
color: #222222;  
margin-left: 50px;  
}  
.counts .content .count-box p {  
padding: 15px 0 0 0;  
margin: 0 0 0 50px;  
font-family: "Raleway", sans-serif;  
font-size: 14px;  
color: #484848;  
}  
.counts .content .count-box a {  
font-weight: 600;  
display: block;  
margin-top: 20px;  
color: #484848;  
font-size: 15px;  
font-family: "Poppins", sans-serif;  
transition: ease-in-out 0.3s;  
}  
.counts .content .count-box a:hover {  
color: #6f6f6f;  
}  
 @media (max-width: 1024px) {  
.counts .image {  
text-align: center;  
}
```

```
.counts .image img {  
    max-width: 70%;  
}  
}  
  
@media (max-width: 667px) {  
    .counts .image img {  
        max-width: 100%;  
    }  
}  
/*-----  
# Services  
-----*/  
  
.services .icon-box {  
    padding: 30px;  
    position: relative;  
    overflow: hidden;  
    background: #fff;  
    box-shadow: 0 0 29px 0 rgba(68, 88, 144, 0.12);  
    transition: all 0.3s ease-in-out;  
    border-radius: 8px;  
    z-index: 1;  
}  
.services .icon-box::before {  
    content: "";  
    position: absolute;  
    background: #e1f0fa;
```

```
right: -60px;  
top: -40px;  
width: 100px;  
height: 100px;  
border-radius: 50px;  
transition: all 0.3s;  
z-index: -1;  
}  
.services .icon-box:hover::before {  
background: #3498db;  
right: 0;  
top: 0;  
width: 100%;  
height: 100%;  
border-radius: 0px;  
}  
.services .icon {  
margin: 0 auto 20px auto;  
padding-top: 10px;  
display: inline-block;  
text-align: center;  
border-radius: 50%;  
width: 60px;  
height: 60px;  
background: #3498db;
```

```
    transition: all 0.3s ease-in-out;  
}  
  
.services .icon i {  
    font-size: 36px;  
    line-height: 1;  
    color: #fff;  
}  
  
.services .title {  
    font-weight: 700;  
    margin-bottom: 15px;  
    font-size: 18px;  
}  
  
.services .title a {  
    color: #111;  
}  
  
.services .description {  
    font-size: 15px;  
    line-height: 28px;  
    margin-bottom: 0;  
}  
  
.services .icon-box:hover .title a,  
.services .icon-box:hover .description {  
    color: #fff;  
}  
  
.services .icon-box:hover .icon {
```

```
background: #fff;
}

.services .icon-box:hover .icon i {
  color: #3498db;
}

/*
# More Services
-----*/
.more-services {
  padding-top: 20px;
}

.more-services .card {
  border: 0;
  padding: 160px 20px 20px 20px;
  position: relative;
  width: 100%;
  background-size: cover;
  background-repeat: no-repeat;
  background-position: center center;
}

.more-services .card-body {
  z-index: 10;
  background: rgba(255, 255, 255, 0.9);
  padding: 15px 30px;
  box-shadow: 0px 2px 15px rgba(0, 0, 0, 0.1);
  transition: 0.3s;
```

```
transition: ease-in-out 0.4s;  
border-radius: 5px;  
}  
.more-services .card-title {  
font-weight: 700;  
text-align: center;  
margin-bottom: 15px;  
}  
.more-services .card-title a {  
color: #222222;  
}  
.more-services .card-text {  
color: #5e5e5e;  
}  
  
.more-services .read-more a {  
color: #777777;  
text-transform: uppercase;  
font-weight: 600;  
font-size: 12px;  
transition: 0.4s;  
}  
  
.more-services .read-more a:hover {  
text-decoration: underline;  
}
```

```
.more-services .card:hover .card-body {  
    background: #3498db;  
}  
.more-services .card:hover .read-more a,  
.more-services .card:hover .card-title,  
.more-services .card:hover .card-title a,  
.more-services .card:hover .card-text {  
    color: #fff;  
}  
/*-----  
# Features  
-----*/  
.features .icon-box {  
    display: flex;  
    align-items: center;  
    padding: 20px;  
    background: #f6f6f6;  
    transition: ease-in-out 0.3s;  
}  
.features .icon-box i {  
    font-size: 32px;  
    padding-right: 10px;  
    line-height: 1;  
}  
.features .icon-box h3 {  
    font-weight: 700;
```

```
margin: 0;  
padding: 0;  
line-height: 1;  
font-size: 16px;  
}  
.features .icon-box h3 a {  
color: #222222;  
transition: ease-in-out 0.3s;  
}  
.features .icon-box h3 a:hover {  
color: #3498db;  
}  
.features .icon-box:hover {  
background: #eef7fc;  
}  
/*-----  
# Testimonials  
-----*/  
.testimonials .testimonial-wrap {  
padding-left: 50px;  
}  
.testimonials .testimonials-carousel,  
.testimonials .testimonials-slider {  
overflow: hidden;  
}  
.testimonials .testimonial-item {
```

```
box-sizing: content-box;  
padding: 30px 30px 30px 60px;  
margin: 30px 15px;  
min-height: 200px;  
box-shadow: 0px 2px 12px rgba(0, 0, 0, 0.08);  
position: relative;  
background: #fff;  
}
```

```
.testimonials .testimonial-item .testimonial-img {  
width: 90px;  
border-radius: 10px;  
border: 6px solid #fff;  
position: absolute;  
left: -45px;  
}
```

```
.testimonials .testimonial-item h3 {  
font-size: 18px;  
font-weight: bold;  
margin: 10px 0 5px 0;  
color: #111;  
}
```

```
.testimonials .testimonial-item h4 {  
font-size: 14px;
```

```
color: #999;  
margin: 0;  
}  
  
.testimonials .testimonial-item .quote-icon-left,  
.testimonials .testimonial-item .quote-icon-right {  
color: #e1f0fa;  
font-size: 26px;  
}  
  
.testimonials .testimonial-item .quote-icon-left {  
display: inline-block;  
left: -5px;  
position: relative;  
}  
  
.testimonials .testimonial-item .quote-icon-right {  
display: inline-block;  
right: -5px;  
position: relative;  
top: 10px;  
}  
  
.testimonials .testimonial-item p {  
font-style: italic;  
margin: 15px auto 15px auto;  
}
```

```
.testimonials .swiper-pagination {  
    margin-top: 20px;  
    position: relative;  
}  
  
.testimonials .swiper-pagination .swiper-pagination-bullet {  
    width: 12px;  
    height: 12px;  
    background-color: #fff;  
    opacity: 1;  
    border: 1px solid #3498db;  
}  
  
.testimonials .swiper-pagination .swiper-pagination-bullet-active {  
    background-color: #3498db;  
}  
  
@media (max-width: 767px) {  
    .testimonials .testimonial-wrap {  
        padding-left: 0;  
    }  
  
.testimonials .testimonials-carousel,  
.testimonials .testimonials-slider {  
    overflow: hidden;  
}
```

```
.testimonials .testimonial-item {  
    padding: 30px;  
    margin: 15px;  
}  
  
.testimonials .testimonial-item .testimonial-img {  
    position: static;  
    left: auto;  
}  
}  
  
/*-----  
# Portfolio  
-----*/  
.portfolio .portfolio-item {  
    margin-bottom: 30px;  
}  
  
.portfolio #portfolio-filters {  
    padding: 0;  
    margin: 0 auto 20px auto;  
    list-style: none;  
    text-align: center;  
}  
  
.portfolio #portfolio-filters li {  
    cursor: pointer;
```

```
display: inline-block;  
padding: 8px 15px 10px 15px;  
font-size: 14px;  
font-weight: 600;  
line-height: 1;  
text-transform: uppercase;  
color: #222222;  
margin-bottom: 5px;  
transition: all 0.3s ease-in-out;  
border-radius: 3px;  
}
```

```
.portfolio #portfolio-filters li:hover,  
.portfolio #portfolio-filters li.filter-active {  
color: #fff;  
background: #3498db;  
}
```

```
.portfolio #portfolio-filters li:last-child {  
margin-right: 0;  
}
```

```
.portfolio .portfolio-wrap {  
transition: 0.3s;  
position: relative;  
overflow: hidden;  
z-index: 1;
```

```
background: rgba(34, 34, 34, 0.6);  
}
```

```
.portfolio .portfolio-wrap::before {  
    content: "";  
    background: rgba(34, 34, 34, 0.6);  
    position: absolute;  
    left: 0;  
    right: 0;  
    top: 0;  
    bottom: 0;  
    transition: all ease-in-out 0.3s;  
    z-index: 2;  
    opacity: 0;  
}
```

```
.portfolio .portfolio-wrap img {  
    transition: all ease-in-out 0.3s;  
}
```

```
.portfolio .portfolio-wrap .portfolio-info {  
    opacity: 0;  
    position: absolute;  
    top: 0;  
    left: 0;  
    right: 0;
```

```
bottom: 0;  
z-index: 3;  
transition: all ease-in-out 0.3s;  
display: flex;  
flex-direction: column;  
justify-content: flex-end;  
align-items: flex-start;  
padding: 20px;  
}
```

```
.portfolio .portfolio-wrap .portfolio-info h4 {  
font-size: 20px;  
color: #fff;  
font-weight: 600;  
}
```

```
.portfolio .portfolio-wrap .portfolio-info p {  
color: rgba(255, 255, 255, 0.7);  
font-size: 14px;  
text-transform: uppercase;  
padding: 0;  
margin: 0;  
font-style: italic;  
}
```

```
.portfolio .portfolio-wrap .portfolio-links {
```

```
text-align: center;
z-index: 4;
}

.portfolio .portfolio-wrap .portfolio-links a {
    color: #fff;
    margin: 0 5px 0 0;
    font-size: 28px;
    display: inline-block;
    transition: 0.3s;
}

.portfolio .portfolio-wrap .portfolio-links a:hover {
    color: #3498db;
}

.portfolio .portfolio-wrap:hover::before {
    opacity: 1;
}

.portfolio .portfolio-wrap:hover img {
    transform: scale(1.2);
}

.portfolio .portfolio-wrap:hover .portfolio-info {
    opacity: 1;
}

/*-----
# Portfolio Details
-----*/
.portfolio-details {
```

```
padding-top: 40px;  
}  
.portfolio-details .portfolio-details-slider img {  
width: 100%;  
}  
.portfolio-details .portfolio-details-slider .swiper-pagination {  
margin-top: 20px;  
position: relative;  
}  
.portfolio-details .portfolio-details-slider .swiper-pagination .swiper-  
pagination-bullet {  
width: 12px;  
height: 12px;  
background-color: #fff;  
opacity: 1;  
border: 1px solid #3498db;  
}  
  
.portfolio-details .portfolio-details-slider .swiper-pagination .swiper-  
pagination-bullet-active {  
background-color: #3498db;  
}  
.portfolio-details .portfolio-info {  
padding: 30px;  
box-shadow: 0px 0 30px rgba(34, 34, 34, 0.08);  
}
```

```
.portfolio-details .portfolio-info h3 {  
    font-size: 22px;  
    font-weight: 700;  
    margin-bottom: 20px;  
    padding-bottom: 20px;  
    border-bottom: 1px solid #eee;  
}  
}
```

```
.portfolio-details .portfolio-info ul {  
    list-style: none;  
    padding: 0;  
    font-size: 15px;  
}  
}
```

```
.portfolio-details .portfolio-info ul li+li {  
    margin-top: 10px;  
}  
}
```

```
.portfolio-details .portfolio-description {  
    padding-top: 30px;  
}  
}
```

```
.portfolio-details .portfolio-description h2 {  
    font-size: 26px;  
    font-weight: 700;  
    margin-bottom: 20px;  
}  
}
```

```
.portfolio-details .portfolio-description p {  
    padding: 0;  
}  
  
/*-----  
# Team  
-----*/  
  
.team .member {  
    margin-bottom: 20px;  
    overflow: hidden;  
    text-align: center;  
    border-radius: 5px;  
    background: #fff;  
    box-shadow: 0px 2px 15px rgba(0, 0, 0, 0.1);  
}  
  
.team .member .member-img {  
    position: relative;  
    overflow: hidden;  
}  
  
.team .member .social {  
    position: absolute;  
    left: 0;  
    bottom: 0;  
    right: 0;  
    height: 40px;
```

```
    opacity: 0;  
    transition: ease-in-out 0.3s;  
    background: rgba(255, 255, 255, 0.85);  
    display: inline-flex;  
    justify-content: center;  
    align-items: center;  
}
```

```
.team .member .social a {  
    transition: color 0.3s;  
    color: #222222;  
    margin: 0 10px;  
    display: inline-flex;  
    justify-content: center;  
    align-items: center;  
}
```

```
.team .member .social a i {  
    line-height: 0;  
}
```

```
.team .member .social a:hover {  
    color: #3498db;  
}
```

```
.team .member .social i {
```

```
    font-size: 18px;  
    margin: 0 2px;  
}
```

```
.team .member .member-info {  
    padding: 25px 15px;  
}
```

```
.team .member .member-info h4 {  
    font-weight: 700;  
    margin-bottom: 5px;  
    font-size: 18px;  
    color: #222222;  
}
```

```
.team .member .member-info span {  
    display: block;  
    font-size: 13px;  
    font-weight: 400;  
    color: #aaaaaa;  
}
```

```
.team .member .member-info p {  
    font-style: italic;  
    font-size: 14px;  
    line-height: 26px;
```

```
color: #777777;  
}
```

```
.team .member:hover .social {  
    opacity: 1;  
}
```

```
/*-----  
# Pricing  
-----*/
```

```
.pricing .box {  
    padding: 20px;  
    background: #f9f9f9;  
    text-align: center;  
    border-radius: 8px;  
    position: relative;  
    overflow: hidden;  
    border: 2px solid #f9f9f9;  
}
```

```
.pricing .box h3 {  
    font-weight: 400;  
    padding: 15px;  
    margin-top: 15px;  
    font-size: 18px;  
    font-weight: 600;
```

```
color: #222222;  
}  
.pricing .box h4 {  
    font-size: 42px;  
    color: #3498db;  
    font-weight: 500;  
    font-family: "Open Sans", sans-serif;  
    margin-bottom: 20px;  
}
```

```
.pricing .box h4 sup {  
    font-size: 20px;  
    top: -15px;  
    left: -3px;  
}
```

```
.pricing .box h4 span {  
    color: #bababa;  
    font-size: 16px;  
    font-weight: 300;  
}
```

```
.pricing .box ul {  
    padding: 0;  
    list-style: none;  
    color: #222222;
```

```
    text-align: center;  
    line-height: 20px;  
    font-size: 14px;  
}
```

```
.pricing .box ul li {  
    padding-bottom: 16px;  
}
```

```
.pricing .box ul i {  
    color: #3498db;  
    font-size: 18px;  
    padding-right: 4px;  
}
```

```
.pricing .box ul .na {  
    color: #ccc;  
    text-decoration: line-through;  
}
```

```
.pricing .box .btn-wrap {  
    padding: 15px;  
    text-align: center;  
}
```

```
.pricing .box .btn-buy {  
    display: inline-block;
```

```
padding: 10px 40px 12px 40px;  
border-radius: 50px;  
border: 2px solid #3498db;  
color: #3498db;  
font-size: 14px;  
font-weight: 400;  
font-family: "Raleway", sans-serif;  
font-weight: 600;  
transition: 0.3s;  
}
```

```
.pricing .box .btn-buy:hover {  
background: #3498db;  
color: #fff;  
}
```

```
.pricing .recommended {  
border-color: #3498db;  
}
```

```
.pricing .recommended .btn-buy {  
background: #3498db;  
color: #fff;  
}
```

```
.pricing .recommended .btn-buy:hover {
```

```
background: #2383c4;  
border-color: #2383c4;  
}  
  
/*-----  
# F.A.Q  
-----*/  
.faq .faq-item {  
margin: 20px 0;  
padding: 20px 0;  
border-bottom: 1px solid #eeeeee;  
}  
  
.faq .faq-item i {  
color: #8bc4ea;  
font-size: 24px;  
float: left;  
line-height: 0;  
padding: 13px 0 0 0;  
margin: 0;  
}  
  
.faq .faq-item h4 {  
font-size: 16px;  
line-height: 26px;  
font-weight: 500;
```

```
margin: 0 0 10px 32px;  
font-family: "Poppins", sans-serif;  
}
```

```
.faq .faq-item p {  
font-size: 15px;  
}
```

```
/*-----
```

```
# Contact
```

```
-----*/
```

```
.contact .contact-about h3 {  
font-size: 28px;  
margin: 0 0 10px 0;  
padding: 0;  
line-height: 1;  
font-weight: 700;  
letter-spacing: 1px;  
color: #222222;  
}
```

```
.contact .contact-about p {  
font-size: 14px;  
line-height: 24px;  
font-family: "Raleway", sans-serif;  
color: #888;  
}
```

```
.contact .social-links {  
    padding-bottom: 20px;  
}
```

```
.contact .social-links a {  
    font-size: 18px;  
    display: inline-block;  
    background: #fff;  
    color: #3498db;  
    line-height: 1;  
    padding: 8px 0;  
    margin-right: 4px;  
    border-radius: 50%;  
    text-align: center;  
    width: 36px;  
    height: 36px;  
    transition: 0.3s;  
    border: 1px solid #3498db;  
}
```

```
.contact .social-links a:hover {  
    background: #3498db;  
    color: #fff;  
}
```

```
.contact .info {  
    color: #444444;  
}
```

```
.contact .info i {  
    font-size: 32px;  
    color: #3498db;  
    float: left;  
    line-height: 1;  
}
```

```
.contact .info p {  
    padding: 0 0 10px 42px;  
    line-height: 28px;  
    font-size: 14px;  
}
```

```
.contact .php-email-form .error-message {  
    display: none;  
    color: #fff;  
    background: #ed3c0d;  
    text-align: left;  
    padding: 15px;  
    font-weight: 600;  
}
```

```
.contact .php-email-form .error-message br+br {  
    margin-top: 25px;  
}
```

```
.contact .php-email-form .sent-message {  
    display: none;
```

```
color: #fff;  
background: #18d26e;  
text-align: center;  
padding: 15px;  
font-weight: 600;  
}
```

```
.contact .php-email-form .loading {  
display: none;  
background: #fff;  
text-align: center;  
padding: 15px;  
}
```

```
.contact .php-email-form .loading:before {  
content: "";  
display: inline-block;  
border-radius: 50%;  
width: 24px;  
height: 24px;  
margin: 0 10px -6px 0;  
border: 3px solid #18d26e;  
border-top-color: #eee;  
animation: animate-loading 1s linear infinite;  
}
```

```
.contact .php-email-form .form-group {
```

```
margin-bottom: 20px;  
}  
  
.contact .php-email-form input,  
.contact .php-email-form textarea {  
    border-radius: 0;  
    box-shadow: none;  
    font-size: 14px;  
    padding: 10px 15px;  
}  
  
.contact .php-email-form input:focus,  
.contact .php-email-form textarea:focus {  
    border-color: #3498db;  
}  
  
.contact .php-email-form button[type=submit] {  
    background: #3498db;  
    border: 0;  
    padding: 10px 24px;  
    color: #fff;  
    transition: 0.4s;  
    border-radius: 50px;  
}  
  
.contact .php-email-form button[type=submit]:hover {
```

```
background: #2383c4;  
}  
  
@keyframes animate-loading {  
    0% {  
        transform: rotate(0deg);  
    }  
    100% {  
        transform: rotate(360deg);  
    }  
}  
  
/*-----  
# Breadcrumbs  
-----*/  
  
.breadcrumbs {  
    padding: 15px 0;  
    background: #f8f8f8;  
    min-height: 40px;  
    margin-top: 86px;  
}  
  
@media (max-width: 992px) {  
    .breadcrumbs {  
        margin-top: 72px;  
    }  
}  
  
.breadcrumbs h2 {
```

```
    font-size: 28px;  
    font-weight: 400;  
    margin: 0;  
}
```

```
.breadcrumbs ol {  
    display: flex;  
    flex-wrap: wrap;  
    list-style: none;  
    padding: 0;  
    margin: 0;  
    font-size: 14px;  
}
```

```
@media (max-width: 992px) {  
    .breadcrumbs ol {  
        margin-top: 10px;  
    }  
}
```

```
.breadcrumbs ol li+li {  
    padding-left: 10px;  
}
```

```
.breadcrumbs ol li+li::before {  
    display: inline-block;
```

```
padding-right: 10px;  
color: #3c3c3c;  
content: "/";  
}  
  
@media (max-width: 768px) {  
    .breadcrumbs .d-flex {  
        display: block !important;  
    }
}  
  
.breadcrumbs ol {  
    display: block;  
}  
  
.breadcrumbs ol li {  
    display: inline-block;  
}  
}  
  
/*-----  
# Footer  
-----*/  
  
#footer {  
    background: #fff;  
    box-shadow: 0px 0px 12px 0px rgba(0, 0, 0, 0.1);  
    padding: 30px 0;
```

```
color: #222222;  
font-size: 14px;  
}
```

```
#footer .credits {  
font-size: 13px;  
padding-top: 5px;  
color: #222222;  
}
```

```
#footer .footer-links a {  
color: #222222;  
padding-left: 15px;  
}
```

```
#footer .footer-links a:first-child {  
padding-left: 0;  
}
```

```
#footer .footer-links a:hover {  
color: #3498db;  
}
```

Python

```
from flask import Flask, render_template, redirect, url_for
```

```
app = Flask(__name__)
```

```
@app.route('/', methods=["GET", "POST"])

def index():
    return render_template('index.html')

@app.route('/dashboard', methods=["GET", "POST"])
def dashboard():
    return render_template('dashboard.html')

@app.route('/report', methods=["GET", "POST"])
def report():
    return render_template('report.html')

@app.route('/story', methods=["GET", "POST"])
def story():
    return render_template('story.html')

# run server
if __name__ == "__main__":
    app.run(debug=True)
```

APPENDIX A.2

A.2 SCREEN SHOT

The screenshot shows a presentation slide with a blue water droplet background. The title 'Aquatic Insights: Cognos-Powered water Portability Analysis' is displayed in white text. Below the title is a bar chart titled 'ph by Sulfate' showing sulfate levels across different samples. To the right of the chart is a bulleted list of facts about sulfate and solids. Next to the list is another bar chart titled 'ph by Solids' showing pH values for various solid samples.

ph by Sulfate

Sulfate	ph (Sum)
129	6.5
180.21	6.0
182.4	8.5
187.17	6.8
187.42	6.5
192.03	6.8
203.44	6.5
206.94	8.0
206.28	7.0

ph by Solids

Solids	ph (Sum)
320.94	7.2875
1,198.94	5.5
1,361.91	6.0
1,372.09	7.5
2,652.96	5.0
2,808.03	4.5
2,835.3	8.5
2,912.21	8.5

- Sulfate is a chemical ion (SO_4^{2-}) that is a common component of many dissolved salts and minerals in water.
- It is often measured in milligrams per liter (mg/L) or parts per million (ppm).
- Solids in water refer to the suspended or dissolved particles and matter present in the water.
- This can include both organic and inorganic substances.

IBM Cognos Analytics | Aquatic insights story | Press F11 to exit full screen | Analytics | Filters

Hardness Comparison

Trihalomethanes by Hardness

Hardness	THMs (ppb)
135	20
163.22	20
184.07	18
191.88	18
196.82	18
214.17	18
217.37	18
225.96	18
160.33	16
193.2	16
213.02	16
218.06	16
220.1	16
227.65	16

Chloramines by Chloramines

Chloramines	Percentage
2.1	2.1
1.92	1.92
1.68	1.68
1.39	1.39
0.63	0.63
0.38	0.38

- Trihalomethanes(THMs) are a group of chemical compounds that can form in water when disinfection agents, such as chlorine or chloramine, react with organic matter.
- The most common THMs include chloroform, bromodichloromethane, dibromochloromethane, and bromoform
- Turbidity is a measure of the cloudiness or haziness of a fluid, in this case, water.
- It is caused by the presence of suspended particles, such as silt, clay, microorganisms, and other solids, in the water.

Prev scene | < | > | Next scene | Scene 3 of 4 | 0:08.0 | 00:0.0

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Aquatic insights Analysis

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Maintenance: Cognos Analytics Maintenance: 21st of Oct, 9:00-17:00 UTC. Actions may be necessary and to subscribe to future events Dismiss

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REPORT

Insertable objects

Find

water_potability.csv - View (1)

WATER POTABLE	DESCRIPTION
pH	The pH level of water is a measure of its acidity or alkalinity. The pH scale ranges from 0 to 14, with 7 being considered neutral.
Hardness	Water hardness is a measure of the mineral content, primarily calcium and magnesium ions, in water.
Solids	Water solids can refer to dissolved or suspended particles in water, such as minerals, sediment, or pollutants.
Chloramines	Chloramines are chemical compounds formed by the combination of chlorine and ammonia in water treatment, often used as a disinfectant to maintain water quality.
Sulfate	Water sulfate refers to the presence of sulfate ions (SO_4^{2-}) dissolved in water, which can impact its chemistry and quality.
Conductivity	Water conductivity refers to its ability to conduct electrical current. It is determined by the presence of dissolved ions, such as salts, in the water.
Organic_carbon	Organic carbon in water refers to the presence of naturally occurring carbon-containing compounds, such as dissolved organic matter and organic pollutants, which can have implications for water quality and aquatic ecosystems.
Trihalomethanes	Water Trihalomethanes are chemical compounds formed when chlorine or other disinfectants react with organic matter in water, often found in treated drinking water and known for their potential health risks.
Turbidity	Water turbidity refers to the cloudiness or haziness of water caused by the presence of suspended particles, making it less clear and transparent.

No properties

Select an obj to see its properties

Aquatic insights Analysis

STORY

Chloramines Comparison

Chloramines by Chloramines

Chloramines

- 0.36
- 0.63
- 1.39
- 1.68
- 1.92
- 2.1

Organic_carbon and Sulfate by Chloramines

Measures

- Organic_carbon
- Sulfate

Measure	Value
Organic_carbon	1.92
Organic_carbon	2.5
Organic_carbon	2.56
Organic_carbon	2.62
Organic_carbon	2.65
Organic_carbon	2.86
Sulfate	3.12
Sulfate	3.27
Sulfate	3.3
Sulfate	3.33



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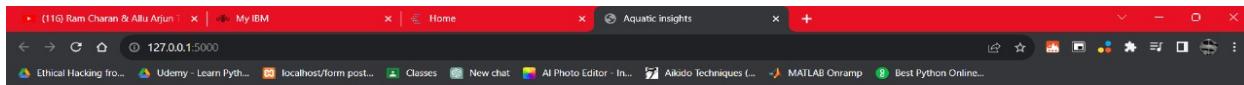
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APPENDIX A.3

A.3 Github

➤ **Github link-**

<https://github.com/SnekhaJ/naanmudhalvan-data-analytics-NM2023TMID01806>

APPENDIX A.4

A.4 Demo link

➤ **Demo link -**

<https://drive.google.com/file/d/1mwLQftIUKUVgDhICaEckMY1tYXXv7uyl/view?usp=drivesdk>

REFERENCES

CHAPTER – 12

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