



BABU BANARASI DAS

INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(Formerly Known as Babu Banarsi Das National Institute of Technology and Management)
(Recognized by AICTE, Govt. of India, affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow)

AKTU COLLEGE CODE - 054

Approved by AICTE, Government of India & affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow

Department of Computer Science & Engineering

Artificial Intelligence & Machine Learning

A Project Report

On

Utility Toolkit

Bachelor of Technology

in

Department of Computer Science

(2022-2023)

Submitted by

SHIV SINGH(2100541530041)

Under the Guidance of

Ms. Shailja Pandey
(Assistant Professor)



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Department of Computer Science & Engineering

Artificial Intelligence & Machine Learning

INSTITUTION VISION

“To become a leading institute of providing professionally competent and socially responsive technocrats with high moral values”

INSTITUTION MISSION

M1. To create an eco-system for dissemination of technical knowledge, to achieve academic excellence.

M2. To develop technocrats with creative skills and leadership qualities, to solve local and global challenges.

M3. To impart human values and ethics in students, to make them socially and eco-friendly responsible.



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Department of Computer Science & Engineering Artificial Intelligence & Machine Learning

DEPARTMENT OF INFORMATION TECHNOLOGY

VISION

“To transform the students to be skilled IT professionals, Innovative leaders, and environmentally receptive citizens.”

MISSION

M1. To develop and deliver quality academic programs in emerging & innovative fields of engineering to empower the students to meet industry standards.

M2. To build students community with ethical standards to undertake R&D in thrust areas of national & international needs.

M3. To inculcate professional behaviour, positive attitude and communication skills.



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Department of Computer Science & Engineering Artificial Intelligence & Machine Learning

PROGRAM EDUCATIONAL OBJECTIVES(PEOs)

- To develop the ability among students to understand the concept of core Information Technology subjects that will facilitate understanding of new technology.
- To embed a strong foundation in the engineering fundamentals to solve, analyze and design real time engineering products.
- To give exposures to emerging edge technologies, adequate training and opportunities to work as team on multidisciplinary projects with effective communication skills and leadership qualities.

WY



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PROGRAM SPECIFIC OUTCOMES(PSOs)

- Use and apply current technical concepts and practices in the core Information Technologies of Human Machine Learning, Information Management, Programming, Cloud Computing.
- Design, develop and test software systems for worldwide network of computers to provide solutions to real word problems.



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PROGRAM OUTCOMES

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and



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interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.



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9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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Artificial Intelligence & Machine Learning

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ACKNOWLEDGEMENT

I would like to express my sincere thanks to **Ms Shailja Pandey** for her valuable guidance and support in completing our Project.

I would also like to express my gratitude towards **Prof. Dr. Navin Prakash**, HEAD of Information Technology Department for giving us the great opportunity to do a project on “**Utility Toolkit**” using html , css and java script.

At last, I would also like to thank my teammates Saksham and Priyanshu without their guidance, support and suggestions, this project would not have been completed.



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INTRODUCTION

The project utility toolkit is a collection of authoritative and adaptable resources for front-line staff that enables them to learn about an issue and identify approaches for addressing them. In our toolkit we are providing four basic utilities that are weather app , calculator , unit converter and world clock. These all utilities that we are providing are used by everyone atleast once a day so you can do that with our toolkit. The main purpose of our toolkit is to consume minimum required memory , resources and time to provide effective and efficient results to an individual.Utility toolkit is toolkit designed to help analyze, configure, optimize or maintain a computer. It is used to support the computer infrastructure - in contrast to application software, which is aimed at directly performing tasks that benefit ordinary users.



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TECHNOLOGY USED

LANGUAGE: - HTML,CSS & JAVA SCRIPT

- **HTML** - The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. HTML consists of a series of elements. HTML elements tell the browser how to display the content.
- **CSS** - Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.
- **JS** - JavaScript, often abbreviated as JS, is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. As of 2022, 98% of websites use JavaScript on the client side for webpage behavior, often incorporating third-party libraries.



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SOFTWARE AND HARDWARE REQUIREMENTS

1. Software Requirements -

- HTML
- JavaScript
- Ms Word 2021.
- Web Browser :-Microsoft internet explorer, google chrome.
- Rapid API.
- Operating system: Windows 11/ Windows 10.

2. Hardware Requirements-

- Processor : AMD Ryzen 5 5500U with Radeon
- RAM : 16 GB
- Graphics (2.10 GHz)
- System type : 64-bit operating system, x64-based processor

3. Objectives-

- To consume minimum required memory , resources and time to provide effective and efficient elucidation to an individual.



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- To provide effective daily use utility software for better performance and productivity.

4. Install new version software's & Required materials-

- HTML5.
- ECMAScript.
- Rapid api extension.
- vs code (version 1.75)
- Live server.
- Web Browser.

5. Assign task to teammate's -

- SHIV - Created weather app and unit converter using html, css and java script.
- SAKSHAM - Created a world clock and joined all utilities in a webpage.
- PRIYANSHU - Created a calculator and made a presentation.

6. Planning Schedule: -

- First we decided the topic for mini project as utility toolkit in the first week of November.
- Then we gathered resources, material, information and data for our project.



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- Then we divided the different-different tasks among all three teammates.
- After this each of the teammates started to work on their particular allotted task and started to type the code on html , css and java script using vs code.
- Till the last week of December we typed the code and then proceeded to link web pages of the weather app , world clock , unit converter , calculator all together.
- At last we created the main webpage i.e the front page of our project and linked that with all the basic utilities.
- Till the end of January we completed our final project and made the presentation.
- Then we gave a presentation of our final project.

7. Current Status: -

- Completed



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IDEA OF THE PROJECT

Our project's main idea is to provide basic software utilities for better user experience. During the project, this documentation helps the project team remain focused and on task. Provides the team with guidelines for making decisions about change requests during the project. Our project's scope should not be confused with its charter; a project's charter simply documents that the project exists. Utility toolkit is toolkit designed to help analyze, configure, optimize or maintain a computer. These all utilities that we are providing is used by everyone atleast once a day so you can do that with our toolkit. The main purpose of our toolkit is to consume minimum required memory , resources and time to provide effective and efficient result to an individual.



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OBJECTIVE AND SCOPE

The main purpose of our toolkit is to consume minimum required memory , resources and time to provide effective and efficient result to an individual . Utility toolkit is toolkit designed to help analyze, configure, optimize or maintain a computer. Our project provide basic software utilities for better user experience. During the project, this documentation helps the project team remain focused and on task. Automate the task of assigning complaints to specific technical staff based on the nature of the problem. users. In our toolkit we are providing four basic utilities that is weather app , calculator , unit converter and world clock. These all utilities that we are providing is used by everyone atleast once a day so you can do that with our toolkit.



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CODE

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

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Unit Converter</title>
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link href="https://fonts.googleapis.com/css2?family=Roboto&display=swap" rel="stylesheet">
    <link rel="stylesheet" href="./style.css">
</head>

<body>
    <div class="container">
        <h2 class="title">Unit Converter</h2>
        <div class="input-container">
            <label for="millimeter">Millimeter</label>
            <input type="number" id="millimeter" placeholder="Millimeter"
                   oninput="millimeter(parseFloat(this.value))" />
        </div>
        <div class="input-container">
            <label for="centimeter">Centimeter</label>
            <input type="number" id="centimeter" placeholder="Centimeter"
                   onchange="centimeter(parseFloat(this.value))" />
        </div>
        <div class="input-container">
            <label for="meter">Meter</label>
            <input type="number" id="meter" placeholder="Meter" onchange="meter(parseFloat(this.value))" />
        </div>
        <div class="input-container">
            <label for="kilometer">Kilometer</label>
            <input type="number" id="kilometer" placeholder="Kilometer" onchange="kilometer(parseFloat(this.value))" />
        </div>
    </div>
    <script src="script.js"></script>
</body>
</html>
```

```
style.css > 4s *
1      margin: 0;
2      padding: 0;
3      box-sizing: border-box;
4  }
5  body {
6      font-family: 'Roboto', sans-serif;
7      height: 100vh;
8      display: flex;
9      align-items: center;
10     justify-content: center;
11     background: #rgb(161, 196, 202);
12     padding: 20px;
13  }
14 .container {
15     padding: 32px;
16     border-radius: 20px;
17     max-width: 400px;
18     width: 100%;
19     background: #fff;
20     box-shadow: 20px 20px 40px #rgba(0,0,0,0.08), -8px -8px 16px #rgba(0,0,0,0.1) inset;
21  }
22 .title {
23     text-align: center;
24  }
25 .input-container {
26     margin-top: 12px;
27     display: flex;
28     flex-direction: column;
29  }
30 .input-container input {
31     padding: 8px;
32     border-radius: 4px;
33     margin-top: 4px;
34     border: 1px solid #rgb(190, 190, 190);
35     box-shadow: none !important;
36     outline: 0;
37 }
```



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```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>WORLD CLOCK</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="...>
  </head>
  <body>
    <nav class="navbar navbar-expand-lg bg-body-tertiary">
      <div class="container-fluid">
        <a class="navbar-brand" href="#">WELCOME TO WORLD CLOCK</a>
        <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarSupportedContent">
          <ul class="navbar-nav me-auto mb-2 mb-lg-0">
            <li class="nav-item">
              <a class="nav-link active" aria-current="page" href="#">Home</a>
            </li>
            <li class="nav-item">
              <a class="nav-link" href="#">Link</a>
            </li>
            <li class="nav-item dropdown">
              <a class="nav-link dropdown-toggle" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
                Dropdown
              </a>
              <ul class="dropdown-menu">
                <li><a class="dropdown-item" href="#">Action</a></li>
                <li><a class="dropdown-item" href="#">Another action</a></li>
                <li><hr class="dropdown-divider"></li>
                <li><a class="dropdown-item" href="#">Something else here</a></li>
              </ul>
            </li>
          </ul>
          <form class="d-flex" role="search">
            <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
          </form>
        </div>
      </div>
    </nav>
  </body>
</html>
```

```
</div>
</div>
<div class="col">
  <div class="card mb-4 rounded-3 shadow-sm ">
    <div class="card-header py-3 ">
      <h4 class="my-0 fw-normal">China</h4>
    </div>
    <div class="card-body">
      <h1 class="card-title pricing-card-title" id="china"></h1>
      <button type="button" class="w-100 btn btn-lg btn-outline-primary">more abot this zone</button>
    </div>
  </div>
</div>
</div>

</main>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkMBXo30j...>
</script>
<script>
  const updateTime= ()=>{
    let d=new Date()
    usa.innerHTML =d.toLocaleString('en-US', {
      timeZone: 'America/Los_Angeles',
    }).split(",")[1]
    china.innerHTML =d.toLocaleString('en-US', [
      {timeZone: 'Asia/Shanghai'},
    ]).split(",")[1]
    india.innerHTML =d.toLocaleString('en-US', [
      {timeZone: 'Asia/Kolkata'},
    ]).split(",")[1]
  }
  setInterval(updateTime,1000)
</script>
</body>
</html>
```



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```
JS script.js > ...
1  const millimeterEl = document.querySelector("#millimeter");
2  const centimeterEl = document.querySelector("#centimeter");
3  const meterEl = document.querySelector("#meter");
4  const kilometerEl = document.querySelector("#kilometer");
5
6  function millimeter(value) {
7      centimeterEl.value = value / 10;
8      meterEl.value = value / 1000;
9      kilometerEl.value = value / 1000000;
10 }
11
12 function centimeter(value) {
13     millimeterEl.value = value * 10;
14     meterEl.value = value / 100;
15     kilometerEl.value = value / 100000;
16 }
17
18 function meter(value) {
19     millimeterEl.value = value * 1000;
20     centimeterEl.value = value * 100;
21     kilometerEl.value = value / 1000;
22 }
23
24 function kilometer(value) {
25     millimeterEl.value = value * 1000000;
26     centimeterEl.value = value * 10000;
27     meterEl.value = value * 1000;
28 }
```

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

<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Weather App</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-GLhTQ8iRABdZLl6O3oVMWSktQOp6b7In1z13/Jr59b6EGGoI1aFkw7cmDA6j6gp" crossorigin="anonymous">
</head>

<body>
    <nav class="navbar navbar-expand-lg bg-body-tertiary">
        <div class="container-fluid">
            <a class="navbar-brand" href="#">Weather App</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
                data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false"
                aria-label="Toggle navigation">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarSupportedContent">
                <ul class="navbar-nav me-auto mb-2 mb-lg-0">
                    <li class="nav-item">
                        <a class="nav-link active" aria-current="page" href="#">Home</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="#">Link</a>
                    </li>
                    <li class="nav-item dropdown">
                        <a class="nav-link dropdown-toggle" href="#" role="button" data-bs-toggle="dropdown"
                            aria-expanded="false">
                            </a>
                        <ul class="dropdown-menu">
                            <li><a class="dropdown-item" href="#">Delhi</a></li>
                            <li><a class="dropdown-item" href="#">Seattle</a></li>
```



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```
<div class="col">
  <div class="card mb-4 rounded-3 shadow-sm border-primary">
    <div class="card-header py-3 text-bg-primary border-primary">
      <h4 class="my-0 fw-normal">Humidity Info</h4>
    </div>
    <div class="card-body">
      <h1 class="card-title pricing-card-title"><span id="humidity2"></span><small class="text-muted fw-light">%</small></h1>
      <ul class="list-unstyled mt-3 mb-4">
        <li>Wind Degree is <span id="wind_degrees"></span></li>
        <li>Feels Like <span id="feels_like"></span></li>
        <li>Humidity is <span id="humidity"></span></li>
      </ul>
      <button type="button" class="w-100 btn btn-lg btn-primary"></button>
    </div>
  </div>
  <div class="col">
    <div class="card mb-4 rounded-3 shadow-sm border-primary">
      <div class="card-header py-3 text-bg-primary border-primary">
        <h4 class="my-0 fw-normal">Sun Info</h4>
      </div>
      <div class="card-body">
        <h1 class="card-title pricing-card-title"><span id="wind_speed2"></span><small class="text-muted fw-light">Km/hr</small></h1>
        <ul class="list-unstyled mt-3 mb-4">
          <li>Wind Speed is <span id="wind_speed"></span></li>
          <li>Sunrise Time is <span id="sunrise"></span></li>
          <li>Sunset Time is <span id="sunset"></span></li>
        </ul>
        <button type="button" class="w-100 btn btn-lg btn-primary"></button>
      </div>
    </div>
  </div>
</body>
</html>
```

```
const options = {
  method: 'GET',
  headers: {
    'X-RapidAPI-Key': '86c48699a7mshe90c738d0efb9ap17c137jsn8c68594d7ea7',
    'X-RapidAPI-Host': 'weather-by-api-ninjas.p.rapidapi.com'
  }
};
const getWeather = (city)=>{
  cityName.innerHTML = city
  fetch('https://weather-by-api-ninjas.p.rapidapi.com/v1/weather?city=' +city, options)
  .then(response => response.json())
  .then((response) => {
    console.log(response)
    //cloud_pct.innerHTML = response.cloud_pct
    temp.innerHTML = response.temp
    temp2.innerHTML = response.temp
    feels_like.innerHTML = response.feels_like
    humidity.innerHTML = response.humidity
    humidity2.innerHTML = response.humidity
    min_temp.innerHTML = response.min_temp
    max_temp.innerHTML = response.max_temp
    wind_speed.innerHTML = response.wind_speed
    wind_speed2.innerHTML = response.wind_speed
    wind_degrees.innerHTML = response.wind_degrees
    sunrise.innerHTML = response.sunrise
    sunset.innerHTML = response.sunset
  })
  .catch(err => console.error(err));
}

submit.addEventListener("click", (e)=>{
  e.preventDefault()
  getWeather(city.value)
})

getWeather("Delhi")
```



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CONCLUSION

The project utility toolkit is a collection of authoritative and adaptable resources for front-line staff that enables them to learn about an issue and identify approaches for addressing them. It eases the task of an ordinary user and provides each and every user a better user experience. In our toolkit we are providing four basic utilities that are weather app , calculator , unit converter and world clock. These all utilities that we are providing are used by everyone atleast once a day so you can do that with our toolkit. This toolkit facilitates users to do multiple tasks from a particular webpage.



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REFERENCES

BOOKS:

- MASTERING HTML, CSS & Java Script Web Publishing by Laura Lemay , Rafe Colburn , Jennifer Kyrnin.
- Web Designing and Development Training Guide by Satish Jain.

WEBSITES:

- <https://www.google.com>
- <https://www.simplilearn.com>
- <https://www.geeksforgeeks.org>
- <https://www.youtube.com>
- <https://www.javatpoint.com>



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