Dr.ZAKIR HUSAIN COLLEGE , ILAYANGUDI PG DEPARTMENT OF MATHEMATICS

PROJECT TITLE: TRACING THE GROWTH OF GLOBAL COMMUNITY: A POPULATION FORECASTING ANALYSIS

SUBMITTED BY:

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DEPARTMENT OF MATHEMATICS

Dr. ZAKIR HUSAIN COLLEGE, ILAYANGUDI

1.INTRODUCTION:

1.1 OVERVIEW:

Population growth is one of the major concerns of the present world as the human population is not a static factor .Rather it is growing at a very alarming rate . Inspite of the increasing world population the resources of the earth remain constant. Thus, the ability to maintain sustainable development is becoming a major challenge to mankind today . In the last half – century, population growth has proceed at an unprecedented rate with the world population currently 6 billion people . The public health impact of this growth has been tremendous and the implications for the future are equally daunting .

1.2 PURPOSE:

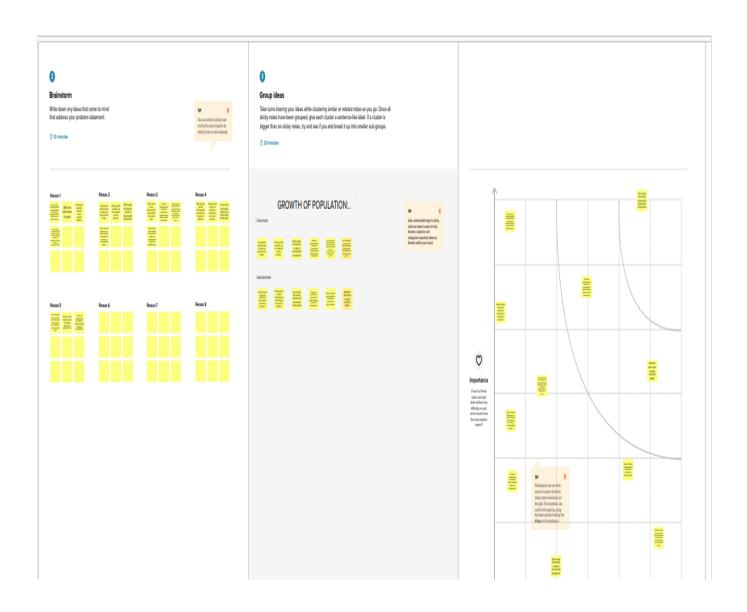
- $\mbox{*}$ Estimate the $\mbox{\bf basic need for human}$, such as demand for food , power ,water ,transportations .
 - * Plan constructions such as housing, highways etc.
 - * Estimate the **labour forces** in various places.
 - * Estimate the **potential consumption** in various regions .
- * Benefit **sociological research**, such as providing data about sex ratio or age ratio.
- * UN population fund started operations in 1969 to assume a leading role within UN system in promoting population and **programmes based on the human right of individuals couples to freely determine the size of the families**.

2.PROBLEM DEFINITION & DESIGN THINKING:

2.1 EMPATHY MAP:

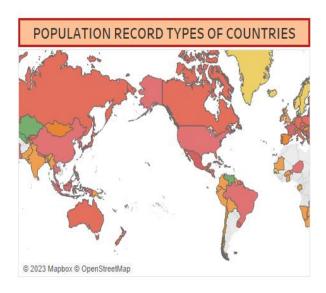


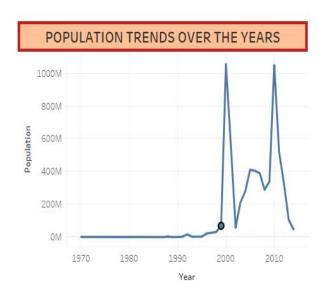
2.2 IDEATION & BRAINSTORMING MAP:

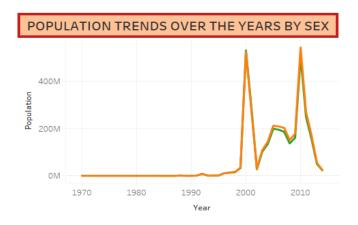


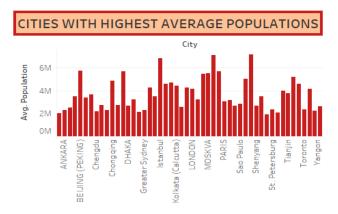
3. RESULT:

DASHBOARDS AND STORIES:





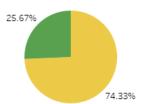




COUNTRIES WITH HIGHEST AVERAGE POPULATION FROM 2000 - 2014

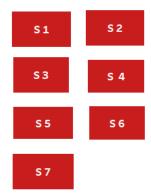
China, Hong Kong SAR	Republic of Korea	
	Uganda	
	Uruguay	Niger
Singapore	Australia	

POPULATION BY CITY TYPE



Dashboard 4





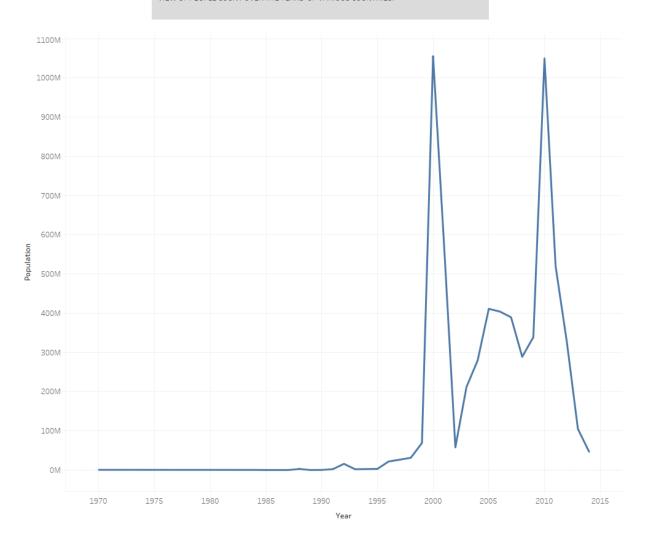
Story 1

THIS CHART DEMONSTRATES THE POPULATION RECORDS OF TYPES OF COUNTRIES. IT GIVES A CLEAR VIEW OF ESTIMATION OF POPULATION IN VARIOUS COUNTRIES.



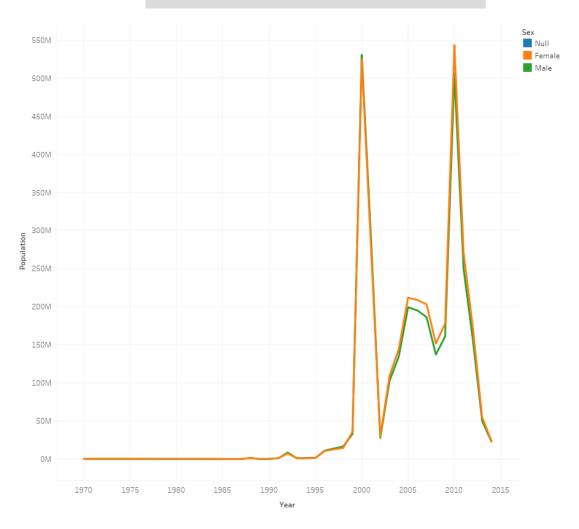
Story 2

THIS CHART DEMONSTRATES THE POPULATION TRENDS OVER THE YEARS. IT GIVES A CLEAR VIEW OF PEOPLE COUNT OVER THE YEARS OF VARIOUS COUNTRIES.



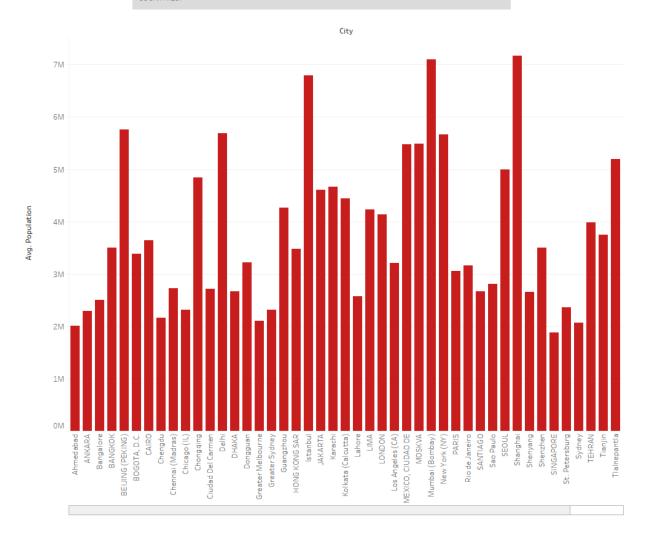
Story 3

THIS CHART DEMONSTRATES THE POPULATION TRENDS OVER THE YEARS BY SEX. IT GIVES A CLEAR VIEW OF MALE AND FEMALE COUNTS AMONG TOTAL POPULATION OF VARIOUS COUNTRIES OVER THE YEARS FROM 1970 TO 2014 .



Story 4

THIS CHART DEMONSTRATES CITIES WITH HIGHEST AVERAGE POPULATIONS. IT GIVES A CLEAR VIEW OF CITIES WHICH HAVING A HIGHEST AVERAGE POPULATION OF A TOTAL POPULATION AMONG VARIOUS COUNTRIES.



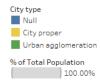
Story 5

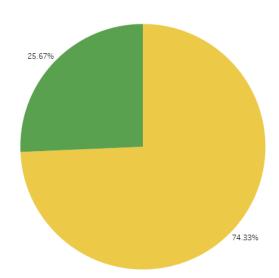
THIS CHART DEMONSTRATES THE COUNTRIES WITH HIGHEST AVERAGE POPULATION FROM 2000 TO 2014. IT GIVES A CLEAR VIEW OF COUNTRIES WHICH HAVING AN AVERAGE OF HIGHEST POPULATION AMONG VARIOUS COUNTRIES OVER THE YEARS. F..

China, Hong Kong SAR	Uganda			Nige	r		South Africa	Malawi	Canada	Avg. Populati 209,059	on 3,473,969
	Uruguay	Peru			Saudi Arabia				Kenya		
	Australia	Egypt	China, Maca								
Singapore	China	Turkey	Seneg	gal							
		Tajikistan	India		Ar	menia		TFYR of			
	Mexico Pakistan				В	Bolivia					
		Pakistan	Colom	nbia	Lesotho	Latvia	Chile				
Republic of Korea	Azerbaijan Ghana				Le	sotnö					
		Ghana	Bangl	ladesh	1		Ecuador Leb	Leban	on		

Story 6

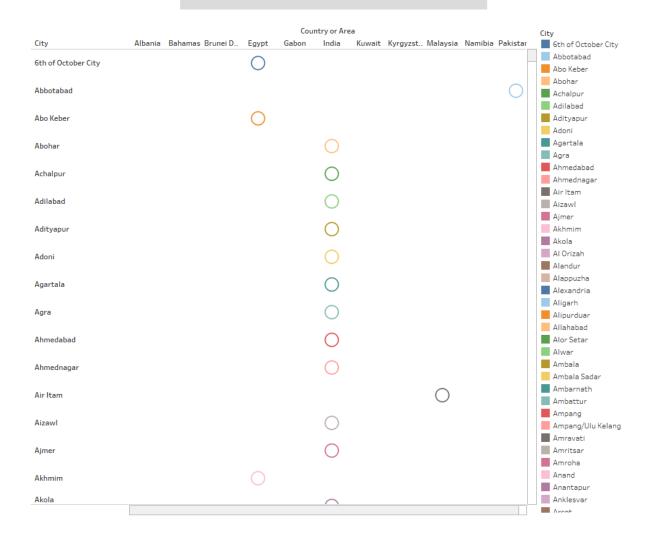
THIS CHART DEMONSTRATES POPULATION BY CITY TYPE. IT GIVES A CLEAR VIEW OF THE PERCENTAGE OF THE POPULATION OF THAT CITY TYPE OF VARIOUS COUNTRIES.





Story 7

THIS CHART DEMONSTRATES THE POPULATION OF CITIES BY YEAR. IT GIVES A CLEAR VIEW OF THE POPULATION OF THE CITIES OF VARIOUS COUNTRIES OVER THE YEARS.



WEB APPLICATION:



4. ADVANTAGE & DISADVANTAGE:

ADVANTAGE OF POPULATION:

- * Population growth will lead to **economic expansion** since more people can produce more goods .
- * One obvious advantage that a large population might offer is a large supply of **human** resources.
- * The demand for products and services will rise as the population grows, encouraging specialization.
- * More people means a greater demand for products and services, so **more jobs** are needed for production and helps in **nation growth**.
- * The government must spend a lot of money on necessities like housing, health care and education for the **modern updated lifetime.**
- * **High population density** locations are much more **efficient** than rural areas and regions with low populations in terms of the per capita carbon footprint.

DISADVANTAGE OF POPULATION:

- * **Demand** for resources **rises** as the population grows.
- * More people means more people to feed, which strains food availability.
- * We are now battling to **process the non-biodegradable waste** that we are producing.
 - * More people will produce more air, water and land pollution.
 - * Cities with a high population density frequently have **traffic problems**.

5. APPLICATIONS:

Field techniques refer to the standardized methods employed to select, count, measure, capture, mark and observe individuals sampled from the target population for the purpose to collecting data required to achieve study objectives. The terms also includes methods used to collect voucher specimens, tissue samples and habitat data.

The choice of field techniques to use for a particular species or population is influenced by five major factors:

- * Data need to achieve inventory and monitoring objectives.
- * Spatial **extent and duration** of the project.
- * Life history and population characteristics.
- * Terrain and vegetation in the study area.
- * Budget constraints.

6.CONCLUSION:

The world population is projected to reach 8.5 billion in 2030 and to increase further to 9.7 billion in 2050 and 10.4 billion by 2100 .As with any type of projection there is a degree of uncertainty surrounding these latest population projection .These figures are based on the medium projections variant ,which assumes a decline of fertility of countries where large families are still prevalent as well as a slight increase of fertility in several countries with fewer than two children per woman an average. Survival prospects are also projected to improving all countries .

7. FUTURE SCOPE:

Developing new methods like fertility regulation and implementing programs of voluntary family planning widely and rapidly throughout the world. Only few nations have made any concerted efforts in this direction, responsible groups in the social, economic and scientific communities of many countries have become increasingly aware of the problem and the need for intelligent and forthright action. Increased understanding of present procedures and development of new methods for regulating fertility will maximize the freedom of all parents to determine the size of their families even in those countries where population growth is not an urgent social problem but where fertility regulation can have personal significance. It should be

emphasized that the kinds of basic bio medical investigation that will contribute to the solutions of problems of human fertility will also provide information that can be applied to the development of methods for overcoming sterility , for influencing embryonic development in order to repair genetically determined bio chemical deficiencies , for avoiding harmful influences of drugs taken during pregnancy , and for assuring optimum conditions for embryonic and foetal development.

8.APPENDIX:

SOURCE CODE:

eNno Bootstrap Template - Index

```
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rel="stylesheet">
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  <link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">
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  <link href="assets/css/style.css" rel="stylesheet">
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  * Updated: Mar 10 2023 with Bootstrap v5.2.3
  * Template URL: https://bootstrapmade.com/enno-free-simple-bootstrap-template/
  * Author: BootstrapMade.com
  * License: https://bootstrapmade.com/license/
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<body>
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    <div class="container d-flex align-items-center justify-content-between">
     <h1 class="logo"><a href="index.html">BAAST</a></h1>
     <!-- Uncomment below if you prefer to use an image logo -->
     <!-- <a href="index.html" class="logo"><img src="assets/img/logo.png"
alt="" class="img-fluid"></a>-->
     <nav id="navbar" class="navbar">
       <u1>
         <a class="nav-link scrollto active" href="#hero">Home</a>
         <a class="nav-link scrollto" href="#Story">Story</a>
         <a class="nav-link scrollto" href="#Dashboard">Dashboard</a>
         <a class="getstarted scrollto" href="#about">Get Started</a>
        <i class="bi bi-list mobile-nav-toggle"></i></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>we demonstrate the trends of population over the years in cities
among various countries </h1>
          <div class="d-flex">
            <a href="#about" class="btn-get-started scrollto">Get Started</a>
            <a href="https://youtu.be/6vL1 kCX6qg" class="glightbox btn-watch-</pre>
video"><i class="bi bi-play-circle"></i><span>Watch Video</span></a>
          </div>
        </div>
        <div class="col-lg-6 order-1 order-lg-2 hero-img">
          <img src="https://www.shutterstock.com/image-illustration/overview-</pre>
growing-world-population-future-600w-1241904376.jpg" class="img-fluid animated"
alt="">
        </div>
     </div>
    </div>
  </section><!-- End Hero -->
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src='https://public.tableau.com/static/images/NE/NEW STOR
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class='tableauViz' style='display:none;'><param name='host url'</pre>
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value='3' /> <param name='site_root' value='' /><param name='name'</pre>
value='NEW STORY/Story1' /><param name='tabs' value='no' /><param</pre>
name='toolbar' value='yes' /><param name='static image'</pre>
value='https://public.tableau.com/static/images/NE/NEW ST
ORY/Story1/1.png' /> <param name='animate transition' value='yes'</pre>
/><param name='display_static_image' value='yes' /><param name='display_spinner'</pre>
value='ves' /><param name='display overlay' value='ves' /><param</pre>
```

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name='filter' value='publish=yes' /></object></div>
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.width='1016px';vizElement.style.height='991px';
                                                                    var
scriptElement =
document.createElement('script');
                                                     scriptElement.src =
'https://public.tableau.com/javascripts/api/viz v1.js';
                                                                           vizEle
ment.parentNode.insertBefore(scriptElement, vizElement);
                                                                       </script>
       <div class="row">
          <div class="col-lg-6">
    </section><!-- End Story Section -->
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purecounter-duration="1" class="purecounter"></span>
            Clients
          </div>
          <div class="col-lg-3 col-6 text-center">
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purecounter-duration="1" class="purecounter"></span>
            Projects
          </div>
          <div class="col-lg-3 col-6 text-center">
            <span data-purecounter-start="0" data-purecounter-end="1463" data-</pre>
purecounter-duration="1" class="purecounter"></span>
            Hours Of Support
          </div>
          <div class="col-lg-3 col-6 text-center">
            <span data-purecounter-start="0" data-purecounter-end="15" data-</pre>
purecounter-duration="1" class="purecounter"></span>
            Hard Workers
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```

```
</div>
      </div>
    </section><!-- End Counts Section -->
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src='https://public.tableau.com/static/images/NE/NEW_DASH
BOARD/Dashboard1/1_rss.png' style='border: none' /></a></noscript><object
class='tableauViz' style='display:none;'><param name='host url'</pre>
value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param name='embed_code_version'</pre>
value='3' /> <param name='site root' value='' /><param name='name'
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name='toolbar' value='yes' /><param name='static_image'</pre>
value='https://public.tableau.com/static/images/NE/NEW DA
SHBOARD/Dashboard1/1.png' /> <param name='animate transition' value='yes'
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name='filter' value='publish=yes' /></object></div>
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divElement.offsetWidth > 500 ) {
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vizElement.style.width='100%';vizElement.style.height='727px';}
  var scriptElement =
document.createElement('script');
                                                    scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
                                                                          vizEle
ment.parentNode.insertBefore(scriptElement, vizElement);
                                                                       </script>
       <div class="section-title">
          <span>Dashboard
    </section><!-- End Dashboard Section -->
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```
<div class="container">
        <div class="section-title">
          <span>Testimonials</span>
          <h2>Testimonials</h2>
          Sit sint consectetur velit quisquam cupiditate impedit suscipit
alias
        </div>
        <div class="testimonials-slider swiper" data-aos="fade-up" data-aos-</pre>
delay="100">
          <div class="swiper-wrapper">
            <div class="swiper-slide">
              <div class="testimonial-item">
                  <i class="bx bxs-quote-alt-left quote-icon-left"></i></i>
                  Proin iaculis purus consequat sem cure digni ssim donec
porttitora entum suscipit rhoncus. Accusantium quam, ultricies eget id, aliquam
eget nibh et. Maecen aliquam, risus at semper.
                  <i class="bx bxs-quote-alt-right quote-icon-right"></i></i>
                <img src="assets/img/testimonials/testimonials-1.jpg"</pre>
class="testimonial-img" alt="">
                <h3>Saul Goodman</h3>
                <h4>Ceo & amp; Founder</h4>
              </div>
            </div><!-- End testimonial item -->
            <div class="swiper-slide">
              <div class="testimonial-item">
                  <i class="bx bxs-quote-alt-left quote-icon-left"></i></i>
                  Export tempor illum tamen malis malis eram quae irure esse
labore quem cillum quid cillum eram malis quorum velit fore eram velit sunt
aliqua noster fugiat irure amet legam anim culpa.
                  <i class="bx bxs-quote-alt-right quote-icon-right"></i></i>
                <img src="assets/img/testimonials/testimonials-2.jpg"</pre>
class="testimonial-img" alt="">
                <h3>Sara Wilsson</h3>
                <h4>Designer</h4>
              </div>
```

```
<div class="swiper-slide">
              <div class="testimonial-item">
                  <i class="bx bxs-quote-alt-left quote-icon-left"></i></i>
                  Enim nisi quem export duis labore cillum quae magna enim sint
quorum nulla quem veniam duis minim tempor labore quem eram duis noster aute amet
eram fore quis sint minim.
                  <i class="bx bxs-quote-alt-right quote-icon-right"></i></i>
                <img src="assets/img/testimonials/testimonials-3.jpg"</pre>
class="testimonial-img" alt="">
                <h3>Jena Karlis</h3>
                <h4>Store Owner</h4>
              </div>
            </div><!-- End testimonial item -->
            <div class="swiper-slide">
              <div class="testimonial-item">
                  <i class="bx bxs-quote-alt-left quote-icon-left"></i></i>
                  Fugiat enim eram quae cillum dolore dolor amet nulla culpa
multos export minim fugiat minim velit minim dolor enim duis veniam ipsum anim
magna sunt elit fore quem dolore labore illum veniam.
                  <i class="bx bxs-quote-alt-right quote-icon-right"></i></i>
                <img src="assets/img/testimonials/testimonials-4.jpg"</pre>
class="testimonial-img" alt="">
                <h3>Matt Brandon</h3>
                <h4>Freelancer</h4>
              </div>
            </div><!-- End testimonial item -->
            <div class="swiper-slide">
              <div class="testimonial-item">
                  <i class="bx bxs-quote-alt-left quote-icon-left"></i></i>
                  Quis quorum aliqua sint quem legam fore sunt eram irure aliqua
veniam tempor noster veniam enim culpa labore duis sunt culpa nulla illum cillum
fugiat legam esse veniam culpa fore nisi cillum quid.
                  <i class="bx bxs-quote-alt-right quote-icon-right"></i></i>
                <img src="assets/img/testimonials/testimonials-5.jpg"</pre>
class="testimonial-img" alt="">
                <h3>John Larson</h3>
                <h4>Entrepreneur</h4>
```

```
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        </div>
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        <div class="text-center">
          <h3>Call To Action</h3>
          > Duis aute irure dolor in reprehenderit in voluptate velit esse
cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non
proident, sunt in culpa qui officia deserunt mollit anim id est laborum.
          <a class="cta-btn" href="#">Call To Action</a>
        </div>
      </div>
    </section><!-- End Cta Section -->
    <!-- ===== Contact Section ====== -->
    <section id="contact" class="contact">
      <div class="container">
        <div class="section-title">
         <span>Contact</span>
         <h2>Contact</h2>
          Sit sint consectetur velit quisquam cupiditate impedit suscipit
alias
       </div>
        <div class="row">
         <div class="col-lg-5 d-flex align-items-stretch">
            <div class="info">
              <div class="address">
               <i class="bi bi-geo-alt"></i></i>
               <h4>Location:</h4>
```

```
Dr.Zakir Husain College, Ilayangudi 
              </div>
              <div class="email">
                <i class="bi bi-envelope"></i></i>
                <h4>Email:</h4>
                info@example.com
              </div>
              <div class="phone">
                <i class="bi bi-phone"></i></i>
                <h4>Call:</h4>
                +91 5408 5442 5402 5404 5447 
              </div>
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3!2sDowntown+Conference+Center!5e0!3m2!1smk!2sbg!4v1539943755621" frameborder="0"
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class="php-email-form">
              <div class="row">
                <div class="form-group col-md-6">
                  <label for="name">Your Name</label>
                  <input type="text" name="name" class="form-control" id="name"</pre>
required>
                </div>
                <div class="form-group col-md-6 mt-3 mt-md-0">
                  <label for="name">Your Email</label>
                  <input type="email" class="form-control" name="email"</pre>
id="email" required>
                </div>
              </div>
              <div class="form-group mt-3">
                <label for="name">Subject</label>
                <input type="text" class="form-control" name="subject"</pre>
id="subject" required>
              </div>
              <div class="form-group mt-3">
```

```
<label for="name">Message</label>
                <textarea class="form-control" name="message" rows="10"</pre>
required></textarea>
              </div>
              <div class="my-3">
                <div class="loading">Loading</div>
                <div class="error-message"></div>
                <div class="sent-message">Your message has been sent. Thank
vou!</div>
              </div>
              <div class="text-center"><button type="submit">Send
Message</button></div>
            </form>
          </div>
        </div>
      </div>
    </section><!-- End Contact Section -->
  </main><!-- End #main -->
  <!-- ===== Footer ====== -->
  <footer id="footer">
    <div class="footer-top">
      <div class="container">
        <div class="row justify-content-center">
          <div class="col-lg-6">
            <h3>BAAST</h3>
            Welcome To The Real World
          </div>
        </div>
        <div class="row footer-newsletter justify-content-center">
          <div class="col-lg-6">
            <form action="" method="post">
              <input type="email" name="email" placeholder="Enter your</pre>
Email"><input type="submit" value="Subscribe">
            </form>
          </div>
        </div>
```

```
<div class="social-links">
          <a href="#" class="twitter"><i class="bx bxl-twitter"></i></a>
          <a href="#" class="facebook"></i class="bx bxl-facebook"></i></a>
          <a href="#" class="instagram"><i class="bx bxl-instagram"></i></a>
          <a href="#" class="google-plus"><i class="bx bxl-skype"></i></a>
          <a href="#" class="linkedin"><i class="bx bxl-linkedin"></i></a>
        </div>
     </div>
   </div>
   <div class="container footer-bottom clearfix">
     <div class="copyright">
       © Copyright <strong><span>BAAST</span></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/enno-free-simple-bootstrap-template/ -->
       Designed by <a href="https://bootstrapmade.com/">BootstrapMade</a>
     </div>
   </div>
 </footer><!-- End Footer -->
 <a href="#" class="back-to-top d-flex align-items-center justify-content-</pre>
center"><i class="bi bi-arrow-up-short"></i></a>
 <!-- Vendor JS Files -->
 <script src="assets/vendor/purecounter/purecounter vanilla.js"></script>
 <script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
 <script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
 <script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
 <script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
 <script src="assets/vendor/php-email-form/validate.js"></script>
 <!-- Template Main JS File -->
 <script src="assets/js/main.js"></script>
</body>
</html>
```