

## DIY 12 – COLLINS MAKUI

### Task 1: Advantages of Bootstrap

Bootstrap enables creating responsive websites – hence make it easier to build websites that look great in all device sizes.

Building professional websites with bootstrap will require lesser time as it has pre-designed components and CSS styles.

### Task 2: The basic structure of a Bootstrap-based web page.

Bootstrap uses HTML elements and CSS properties. A basic Bootstrap-based webpage will use HTML 5.

Inside the head section, include the links to the bootstrap files.

You may link the bootstrap file using CDN, where you don't need to download the bootstrap file. Another way is to download the bootstrap files and include them inside your project folder.

All that you need to do next is using the bootstrap classes, and the effects will be applied to your various elements.

### Task 3: How to use Bootstrap

A simple webpage that uses bootstrap

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Basic bootstrap page</title>
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH"
crossorigin="anonymous">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min
.js" integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDz0xhy9GkcIdslK1eN7N6jIeHz"
crossorigin="anonymous"></script>

</head>
<body>
  <div class="container">
    <h1>A Basic Bootstrap web page</h1>
    <p>Its cool using Bootstrap</p>
  </div>

</body>
</html>
```

## Task 4: Bootstrap Vs Media Queries

Bootstrap has pre-built CSS styles; you don't need to create new styles hence saving time. For media query you have to write CSS styles and define for each screen size in order to build a responsive page hence more time will be need.

It's easier to work with bootstrap than media query as you don't need to be proficient in CSS. Only need to understand bootstrap classes and components.

Working with media queries allows flexibility and uniqueness in design which is not the case with bootstrap where you depend only on the pre-designed components.

Media queries can be used within the existing stylesheet as no external dependencies are required for one to use them. With Bootstrap you are required to add the Bootstrap CC and JavaScript files to your project.

## Task 5: Bootstrap Breakpoints

We use breakpoints when we want to organize our components differently on the different devices in order to provide a better user experience and when we want to apply different styling based on the screen sizes. The example below illustrates how and when this can be done.

[illegible]