

## ITEC 65 - OPEN-SOURCE TECHNOLOGY

### ASYNCHRONOUS ACTIVITY

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#### 1) WHAT IS BOOTSTRAP?

- ▶ BOOTSTRAP IS A FREE AND OPEN-SOURCE WEB DEVELOPMENT FRAMEWORK - IT'S DESIGNED TO EASE THE WEB DEVELOPMENT PROCESS OF RESPONSIVE, MOBILE-FIRST WEBSITES BY PROVIDING A COLLECTION OF SYNTAX FOR TEMPLATE DESIGNS. IN OTHER WORDS, BOOTSTRAP HELPS WEB DEVELOPERS BUILD WEBSITES FASTER AS THEY DON'T NEED TO WORRY ABOUT BASIC COMMANDS AND FUNCTIONS - IT CONSISTS OF HTML, CSS, AND JS-BASED SCRIPTS FOR VARIOUS WEB DESIGN-RELATED FUNCTIONS AND COMPONENTS.

#### 2.) ADVANTAGES AND IMPORTANCE OF BOOTSTRAP.

##### ▶ RESPONSIVE

↳ BOOTSTRAP IS USED TO AS A RESPONSIVE FRAMEWORK TO MAKE IT OPEN ON ALL TYPES OF DEVICES.

##### ▶ AUTOMATICALLY RESIZES

↳ WHEN YOU CREATE A WEBSITE BY USING BOOTSTRAP, THE IMAGE AND OTHER ELEMENTS ARE AUTOMATICALLY ADJUSTED, FOR THIS, YOU DO NOT NEED TO SET THE SIZE MANUALLY, THIS SAVES THE DEVELOPERS TIME.

##### ▶ EASY TO USE

↳ BOOTSTRAP IS VERY EASY TO USE, IF YOU WANT TO CREATE A WEBSITE FOR BUSINESS, THEN YOU CAN ALSO DEVELOP A RESPONSIVE WEBSITE BY YOURSELF USING THIS FRAMEWORK. HERE YOU CAN GET THE OPTION TO SET EVERYTHING UP EASILY.

##### ▶ INCLUDES MAJOR COMPONENTS

↳ MANY TYPES OF OPTIONS ARE REQUIRED TO BE INSTALLED IN ANY WEBSITE RELATED TO PROFESSIONAL BUSINESS BUT ON BOOTSTRAP YOU GET MANY TYPES OF MAJOR COMPONENTS EASILY INBUILT WHICH INCLUDE DROPDOWNS, FORMS, NAVIGATION BARS, PROGRESS BARS, ETC. TO CREATE A PROFESSIONAL WEBSITE.

##### ▶ SUPPORT JAVASCRIPT AND CSS

↳ GENERALLY, JAVASCRIPT AND CSS ARE USED IN CODING TO CREATE A WEBSITE - BOOTSTRAP SUPPORTS BOTH THESE PROGRAMMING LANGUAGES WELL, SO YOU WILL NOT HAVE ANY PROBLEMS IN CODING.

3) DRAW A TIMELINE THAT ILLUSTRATES THE KEY EVENTS IN THE HISTORY OF BOOTSTRAP

← 2010 →

TWITTER BLUEPRINT - BOOTSTRAP'S PREDECESSOR, TWITTER BLUEPRINT, WAS DEVELOPED BY MARK OTTO AND JACOB THORNTON AT TWITTER. IT WAS CREATED TO STREAMLINE AND STANDARDIZE THE DEVELOPMENT OF INTERNAL TOOLS AND PROJECTS AT TWITTER.

← JANUARY 2012 →

THE SECOND MAJOR VERSION OF BOOTSTRAP WAS RELEASED IN JANUARY 2012. IT INTRODUCED SEVERAL NEW FEATURES AND IMPROVEMENTS, INCLUDING RESPONSIVE DESIGN COMPONENTS AND A 12-COLUMN GRID SYSTEM.

← JANUARY 2018 →

BOOTSTRAP 4 WAS A MAJOR UPDATE RELEASED IN JANUARY 2018. IT INCLUDED NUMEROUS CHANGES AND IMPROVEMENTS, SUCH AS THE ADOPTION OF FLEXBOX, A REDESIGNED GRID SYSTEM, IMPROVED CUSTOMIZATION OPTIONS, AND ENHANCED SUPPORT FOR RESPONSIVE WEB DESIGN.

→ AUGUST 2011 →

OPEN SOURCED AS BOOTSTRAP - IN AUGUST 2011, TWITTER DECIDED TO RELEASE TWITTER BLUEPRINT AS AN OPEN-SOURCE PROJECT UNDER THE NAME "BOOTSTRAP". THIS MARKED THE OFFICIAL LAUNCH OF THE BOOTSTRAP FRAMEWORK.

→ AUGUST 2013 →

IN AUGUST 2013, BOOTSTRAP 3 WAS RELEASED, BRINGING A MOBILE-FIRST DESIGN APPROACH, A FLAT DESIGN AESTHETIC, AND A SIGNIFICANT REWRITE OF THE CODEBASE. IT ALSO FOCUSED ON IMPROVING COMPATIBILITY WITH MODERN WEB DEVELOPMENT TECHNIQUES.

→ MAY 2021 →

BOOTSTRAP 5 WAS OFFICIALLY RELEASED IN MAY 2021. IT AIMED TO STREAMLINE THE FRAMEWORK AND REMOVE JQUERY AS A DEPENDENCY. THIS VERSION FOCUSED ON MODERN WEB DEVELOPMENT PRACTICES, IMPROVED PERFORMANCE, AND ENHANCED CUSTOMIZABILITY.