

BOOTSTRAP

**FRONT END FRAMEWORK FOR DEVELOPING
RESPONSIVE MOBILE-FIRST PROJECTS**

CONTAINS HTML AND CSS DESIGN TEMPLATES

CONTAINS OPTIONAL JAVASCRIPT EXTENSIONS

ORIGINALLY DEVELOPED AS AN INTERNAL TOOLKIT FOR TWITTER

RELEASED AS OPEN SOURCE IN 2010

HAS BECOME ONE OF THE MOST POPULAR FRONT END FRAMEWORKS

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WHAT IS FRONT END?

REFERS TO THE ELEMENTS OF A WEBSITE A PERSON SEES AND INTERACTS WITH

MOST OFTEN EMPLOYS HTML, CSS, AND JAVASCRIPT BUT CAN INCLUDE OTHERS

HTML DESCRIBES CONTENT (SEMANTIC HTML)

CSS DEFINES APPEARANCE

JAVASCRIPT FACILITATES INTERACTION

THIS HAPPENS ENTIRELY IN THE BROWSER

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WHAT IS BACK END?

REFERS TO THE FUNCTIONALITY OF A WEBSITE THAT IS NOT VISIBLE

EXAMPLE: IF YOU BUY SOMETHING ONLINE, YOU INTERACT WITH THE FRONT END: THE STORE

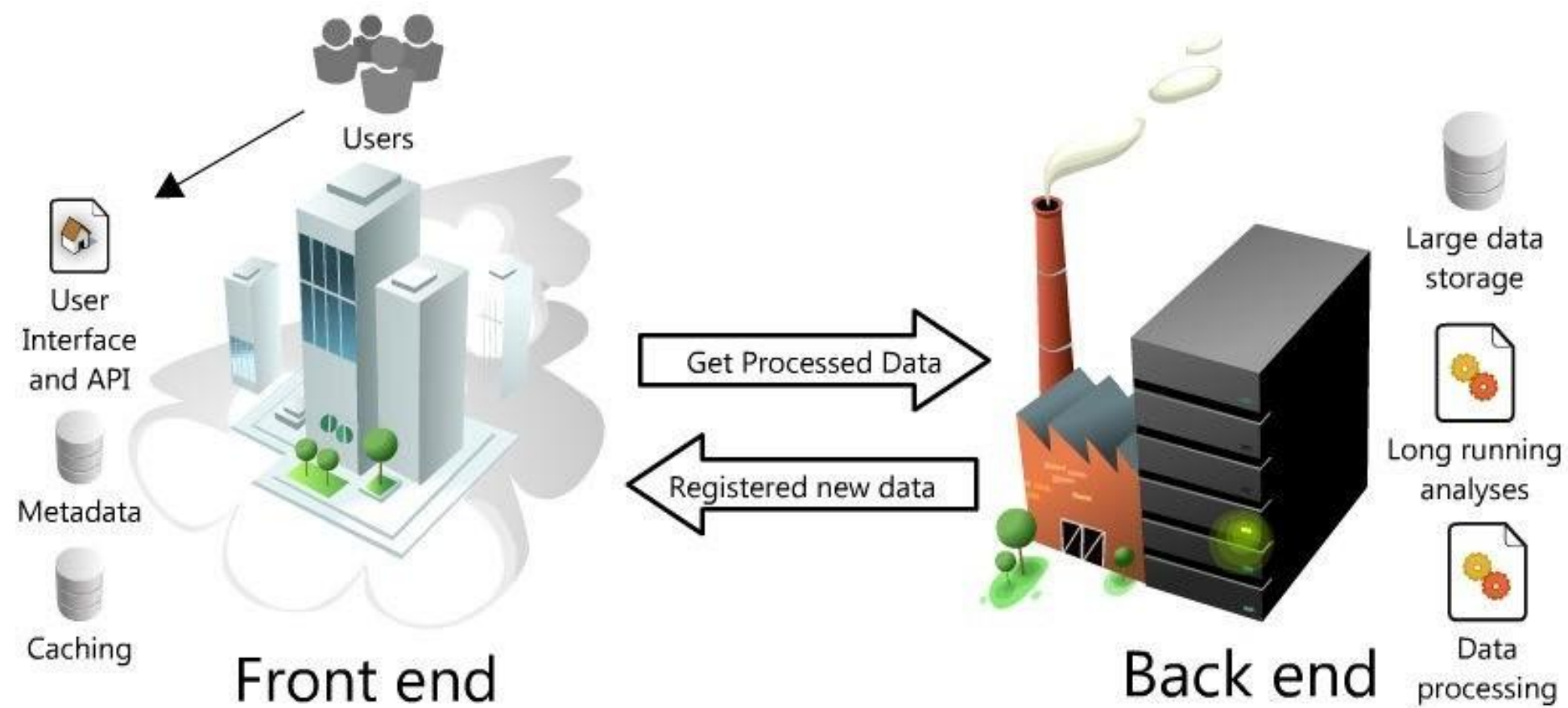
THE TRANSACTION TAKES PLACE HOWEVER, ON THE BACK END: A DATABASE ON A WEB SERVER

EXAMPLE: WHEN YOU SIGN UP FOR A WEBSITE'S NEWSLETTER, YOU ENTER IN YOUR EMAIL IN THE FRONT END MODULE/FORM.

YOUR EMAIL IS STORED IN THE BACKEND.

THE BACKEND USUALLY CONSISTS OF A DATABASE, AN APPLICATION, AND A SERVER

MOST OFTEN EMPLOYS PHP, RUBY, AND/OR PYTHON



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LAYOUT AND DESIGN

RESPONSIVE WITH MOBILE FIRST APPROACH

AS SUCH, STARTS WITH A BASELINE OF SHARED STYLES AND INTRODUCES MORE ADVANCED LAYOUT RULES AS SIZE PERMITS

THUS, USES MEDIA QUERIES

ALSO OFFERS A GRID SYSTEM IN ROWS AND COLUMNS

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INTERACTIVITY

INTERACTIVE COMPONENTS CALLED WIDGETS CAN EXTEND THE BEHAVIORAL ASPECT OF THE WEBSITE

THIS WOULD NORMALLY REQUIRE EXTENSIVE KNOWLEDGE IN JAVASCRIPT

THIS IS SIMPLIFIED IN BOOTSTRAP SO THAT THE DEVELOPER CAN ACTIVATE THESE WIDGETS WITH SIMPLE AND SPECIFIC HTML STRUCTURE AND CLASS NAMES.

WIDGETS INCLUDE GALLERIES, CAROUSELS, TABS, TOOLTIPS, RESPONSIVE NAVIGATION AND MORE.

WEB SITE VS. WEB APP

WHAT'S THE DIFFERENCE?

WEBSITES ARE PRIMARILY INFORMATIONAL.

IN THIS SENSE, CNN.COM IS A WEBSITE. MOST LIKELY WHAT YOU ARE BUILDING IS A WEBSITE

WEB APPLICATIONS PRIMARILY ALLOW THE USER TO PERFORM ACTIONS.

CODEPEN, GOOGLE ANALYTICS, GMAIL ARE WEB APPLICATIONS.

BUT THEY ARE NOT EXCLUSIVE!

IN GENERAL, NYU.EDU IS A WEBSITE BUT THE NYUCLASSES PORTION OF NYU.EDU IS A WEB APP!

HOMEWORK

ASSIGNMENT 7 - WEB FRAMEWORKS