STEM GIRLS UNIVERSITY CAREERS IN TECH

DISCOVERY PACKET OF :

_____

(YOUR NAME HERE)

WHAT DO YOU LIKE?

THINKING OF A CAREER THAT LETS YOU DO THINGS YOU LIKE

- WHAT IS YOUR FAVORITE SUBJECT IN SCHOOL RIGHT NOW?

- WHAT DO YOU LIKE TO DO FOR FUN?

- WHAT HOBBIES OR ACTIVITIES DO YOU LIKE TO SPEND TIME DOING?

- WHAT ARE SOME CAREERS YOU KNOW THAT SOUND INTERESTING TO YOU?

FRONTEND SOFTWARE ENGINEER

The 'frontend' of a website is sometimes called the presentation layer. This is the part of the website that you see when you visit the page. Frontend software engineers (also called developers, programmers or coders) mostly write code in HTML, CSS and Javascript to create the layout, style and design of the website.

- HAVE YOU EVER HAD TO LOOK AT A PICTURE OR OBJECT AND MADE YOUR OWN VERSION OF IT BY DRAWING, PAINTING OR WRITING ABOUT IT? WHAT DID YOU LIKE ABOUT IT?
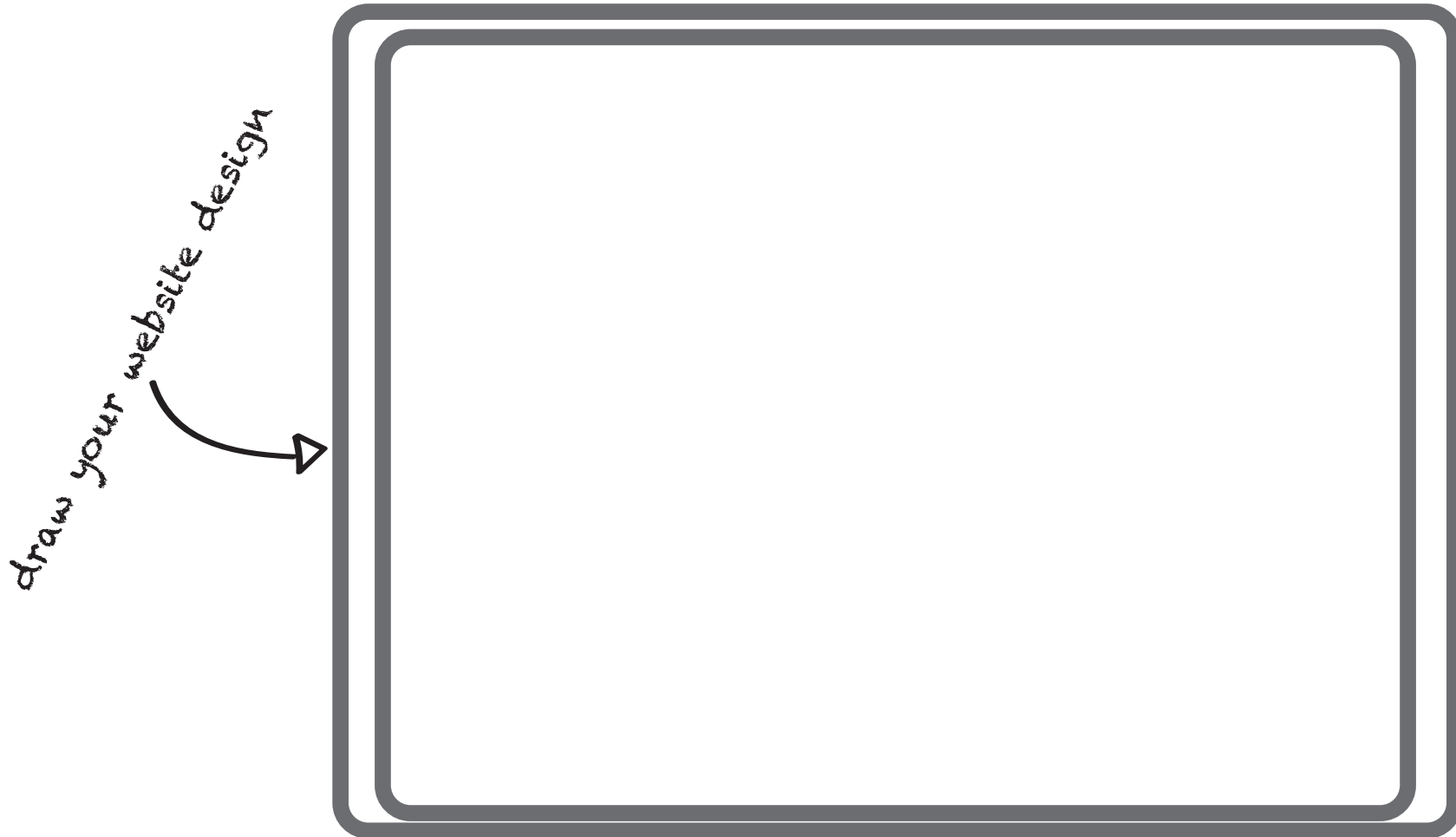
BACK-END
SOFTWARE ENGINEER

The 'backend' of a website is sometimes called the data access layer. This is the part of the website that you DO NOT see when you visit the page but it helps bring the words, items, images and more to the frontend. Backend software engineers (also called developers, programmers or coders) mostly write code in Node (Javascript), Ruby, Python, PHP and more.

- CAN YOU THINK OF ALL THE STEPS IT TAKES TO MAKE A PEANUT BUTTER & JELLY SANDWICH? SEE IF YOU CAN LIST EVERY SINGLE STEP, AS DETAILED AS POSSIBLE, SO THAT YOU COULD WALK A ROBOT THROUGH MAKING A PB&J SANDWICH

WEBSITE DESIGNER

A website designer is a both creative and technical. While most website designers know some of the skills that frontend software engineers use (HTML & CSS) they also are able to use creative programs like Photoshop and Illustrator (drawing, photo editing and layout design programs) to make design what a website will look like.

draw your website design

USER INTERFACE & EXPERIENCE DESIGNER (UI/UX)

A UI/UX designer may also know a little HTML & CSS but their focus is making sure that users of a website can use and go to different pages or sections of the site easily. They think about how people are using the items on their website, like buttons, menus and other interactive features.

How would you make a menu and buttons for people to use on your website?

MOBILE DEVELOPER

A mobile developer is a lot like a frontend and backend software engineer but creating for applications that work on a mobile phone or tablet. They write code for Android or iOS (that is the operating system on iPhones and iPads) using languages like JAVA and Swift, Apple's new programming language.

- WHAT KIND OF APPLICATION DO YOU THINK WOULD BE GREAT TO HAVE ON YOUR PHONE? WHY WOULD IT BE BETTER TO HAVE IT ON A PHONE INSTEAD OF A COMPUTER?

MOBILE DESIGNER

A mobile designer is like a web designer but they have to make their applications look nice on a lot of different devices, like all the different phones & all the different tablets. Their job is always changing because new devices come out every year!

Can you design an application that would look good on a phone AND on a tablet?