Brooklyn Emerging Leaders Academy

U2.L2 - Using Online Search Tools to Locate & Evaluate Information Pt.2

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| Teacher(s) | Edwin Jaquez | Course | | Web Development | | Unit Title | [Unit 1- Career Exploration, Employability / Intro to Web Design](https://drive.google.com/open?id=1yGNRU0_k27j4bWIY5qFGA1uEiUT3ASwg8pCt3e6PChY) |
| Lesson # | 2 | Total Time | | 80 Minutes | | Dates | **B Days** |
| Objectives: | | | | | | | |
| * **describe various job opportunities, and the role information technology plays in these fields.** * **show knowledge of the education level, certification, and skills related to careers they are interested in.** | | | | | | | |
| Assessment—Exit Ticket Questions | | | | | Student Exemplar Responses to the Exit Ticket Questions | | |
| 1. What is a front end-developer? 2. What is a back-end developer? 3. What is a full-stack developer? 4. What is a website? 5. What questions do you have that were not answered in class? | | | | | 1. A front-end developer works to graphically display data or information to the user using HTML, CSS and JavaScript. 2. A back-end developer uses logic that the user can interact with via the front-end environment. 3. A full-stack developer is an engineer who can handle all the work of databases, servers, systems engineering, and clients. 4. A website is a location on the web that contains pages. 5. [responses will vary] | | |

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| Lesson Methods | |
| Activating Strategy/Hook | Time: 10 minutes |
| [**[Link to slides for this lesson]**](https://docs.google.com/presentation/d/1nD59SNpeDQVTmuuOuM_iDdKGVp9oC_wz7RE_COp4ixc/edit#slide=id.g33ee9db878_0_15)  [**[Link to worksheet]**](https://docs.google.com/document/d/1MzqwKG01ueEY_H_JOGod3R9OcgrTvoI8aZczWv7xwww/edit)  **Do Now: [Worksheet]**   * + What’s a website you often use, and why?   + What do you like about this website.   + What’s an application you use on your phone. Is that application available for other devices (computers, smartTV, tablets etc…) * **1 or 2 Students share out responses** | |
| Lesson Lecture | Time: 30 minutes |
| **Introduction to lesson:**   * + Show popular web applications and their cross compatibility. (Using Inspect tool to render responsiveness)     - Examples: Amazon, Youtube, CNN, have students provide another popular site.   + Roles available in these companies. (Career pages)   + Salaries for IT positions. * What is a web developer?   + A web developer is a programmer who specializes in, or is specifically engaged in the development of World Wide Web applications using a **client–server** model.   + **Client–server model** is a distributed application structure that partitions tasks or workloads between the providers of a resource or service, called servers, and service requesters, called clients.      * What is a full-stack developer?   + A **full stack developer** is an engineer who can handle all the work of databases, servers, systems engineering, and clients. Depending on the project, what customers need may be a mobile**stack**, a Web **stack**, or a native application **stack**.   + **Front-end:** Front-end web development is the practice of converting data to a graphical interface, through the use of HTML, CSS, and JavaScript, so that users can view and interact with that data.   + **Back-end:** A back-end developer is a type of programmer who creates the logical back-end and core computational logic of a website, software or information system. The developer creates components and features that are indirectly assessed by a user through a front-end application or system. * **Is a website an app?**   + **App | Application:** Application is any material, product or a program which is designed for end-user to use.   + **Website**: a location connected to the Internet that maintains one or more pages on the World Wide Web.   + **Web-App**: a web application or web app is a client–server computer program which the client runs in a web browser. Common web applications include webmail, online retail sales, and online auction. | |
| Work Period | Time: 30 minutes |
| * Talk about the previous activity where students searched tech jobs. Today, they should look for companies they would want to work for, and navigate their website for careers in technology. * **[Discussion]** What do you know about these companies? * **[Discussion]** What vocabulary words stand out, and/or are new to you?   **Research:**  [10 minutes independently]   * Based on the job descriptions on the websites you used, what are the different requirements or skills needed between the role of front-end, back-end and front-end developers?   [15 minutes in pairs]   * Create a venn-diagram comparing the differences and similarities between a front-end and back-end web developer.   [5 minutes group]   * Discuss what roles, companies and/or skills are of interest. | |
| Closing/Exit Ticket | Time: 10 minutes |
| Preview to next class.   * We will be working on setting up our computers for our very first basic website.   [Worksheet]   1. What is a front end-developer? 2. What is a back-end developer? 3. What is a full-stack developer? 4. What is a website? 5. What questions do you have that were not answered in class? | |