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WK 6 Homework Questions

1. What is the fetch API?
   The fetch API is a promise-based application programming Interface, aka API.

   a. What does it replace the functionalities of?
   It replaces the functionality of the XMLHttpRequest(XHR).

   b. What does it provide an interface for?
   It provides an interface for fetching resources from around the Web or your own project if that's something you want to do. It has more power than XHR (AJAX) and is way more flexible too.

2. What is a JavaScript Promise?
   Completion or failure of an asynchronous operation and its resulting value.

3. Why do developers like to use the fetch API? And especially in conjunction with what? Give two reasons.
   Because is simple to use with promise chaining. It's also faster and more powerful then XHR. Developers also like to use fetch API because it retrieves data from a URL without refreshing the full page.

4. What is the fetch API completely based on?
   Fetch API is completely promise based.

5. What is the function declaration syntax of a regular named function?
   function nameOfFunction(red) {
   }

6. What is the first thing the declaration of regular named function begins with?
   The functions keyword

7. What is that first thing followed by?
   The function keyword is followed by the name of the function.

8. What rules do function names follow?

   Function names follow the same rules as variables, they can contain letters, numbers, underscores, and dollar signs $. If there is more than one part to the name, the convention is to use camelCase to make it easier to read.

9. What is promise chaining represented by in our Free IP Geolocation API project?

   Promise chaining is represented by the ".then ( )" blocks. It is indicated by the "." which is before "then ( )".

10. Why do we use arrow functions inside of the .then() blocks?

    We use arrow functions inside of .then() blocks so that our objects are passed smoothly from one .then() block into another.

11. What is the GoeLocation API?

    GeoLocation API is a web API that allows people to give their location to web applications with their permission. Like when you're phone maps app asks you if you will allow it to use your location, or when a website shows you an interactive map to find a store near you.

12. What must applications add to their application code in order to be able to use the Geolocation API? There are two pieces involved. Explain what each piece represents.

    Geolocation.getCurrentPosition(): Gets the device's current location.

    Geolocation.watchPosition(): Registers a handler function that will be called automatically each time the position of the device changes, returning the updated location.

13. How does the user allow the application to access their location? Use the application that you build to find out how.

    When clicking to get your location, there's a popup in your browser that asks for your permission to allow or block this action by the current domain. The

application only shows your coordinates(location) if you allowed it to, otherwise it says it cant retrieve your location at this time.

14. If the Geolocation API is available in the active browser window, what built-in Geolocation method do we use to get the location of the user by longitude and latitude coordinates?

    If the Geolocation API is available in the browser window, then we can set the .getCurrentPosition() method on navigator.geolocation. This retrieves the user's current location by longitude and latitude. Hence the coordinate!