TypeScript Type Inference

Scenario: Consider the following TypeScript function:

```
typescript

function getUserInfo(userId: number): Promise<{ name: string; age: number }> {
    // Simulate an async API call
    return fetch('/api/users/${userId}')
    .then(response => response.json());
}
```

- 1. What TypeScript feature is being used to specify the return type of the getUserInfo
 function?
- 2. How would you modify this function to handle cases where the API response might be missing the age property.

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- 1) The typescript feature that is being used here is to specify the return type of getUserInfo function is type inference. Type inference allows compiler to automatically detect the type of a variable or expression based on its usage and context.
 Here , the type of the function's return type is inferred from the type of the value returned by the then chain, which is a Promise<{ name: string; age: number }>
- 2) To handle the missing age property, we can make age property as optional.

Promise<{ name: string; age?: number }>

We can extend the then chain to include a callback which will check id age property is present in response data.

If the age is missing we can give a warning like message . SO here API will handle the missing Age propert and give response properly.

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