Error Tracking and Debugging are essential aspects of PHP development to ensure smooth and reliable application behavior.

1. Error Tracking in PHP

- Error tracking involves monitoring and capturing errors, warnings, and notices that occur during the execution of a PHP application.
- Common types of errors include syntax errors, runtime errors, and logical errors.
- PHP provides error reporting settings in the php.ini file or at runtime using the error_reporting() function to control which errors are displayed or logged.
- For production environments, it's best to log errors to a file or a centralized logging service, rather than displaying them to end-users, to maintain security and privacy.
- Popular error tracking and monitoring tools like Sentry, Rollbar, and New Relic can be integrated with PHP applications.

2. Debugging in PHP

- Debugging is the process of finding and fixing issues in the code, such as logical errors or unexpected behavior.
- PHP provides several tools and techniques for debugging:
    - var_dump() and print_r(): These functions help inspect the contents and structure of variables during development.
    - error_log(): It allows you to log custom messages or variable values to a file or the system error log for debugging purposes.
- Integrated Development Environments (IDEs) like PhpStorm, Visual Studio Code, and NetBeans offer debugging support.
- PHP frameworks often provide their debugging and logging tools, helping developers

identify and fix issues specific to their application architecture.

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