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Week 14 Research

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Java Persistence API

Java Persistence API, or JPA for short, makes it easy to pull repositories into a Spring project. Rather than editing the POM.xml file manually, pulling in all the correct details for repositories you need to use, you can just select them in the Spring JPA site and it will build the POM file for you. Whenever something is done by hand, it opens up the possibility of errors. JPA removes that possibility, automating every step of the implementation.[1]

Logging

When you are developing software, it's easy to use the println() function to track how your application is coming along, but when it's time to push it out to the real world, this is no longer an option. Logging can accomplish the same thing and much more.

There are two benefits to logging, the first of which is issue diagnosis. If your application isn't acting the way it should be, you can turn to the logs to try to trace the issue. If it's running slowly, returning inconsistent results, the logs can help you pinpoint exactly what is causing these issues to happen. Another benefit to logging is to study usage stats for your application. Do users use it more in the morning than at night? Do they largely ignore this function but use this other one a lot? Logging can be a good way for you to get free feedback on your application or site to see ways in which you can improve upon your product.[2]

1 https://spring.io/projects/sprig-data-jpa

2 https://towardsdatascience.com/why-should-you-care-about-logging-442a195b80a1