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DaoAuthenticationProvider

[DaoAuthenticationProvider](#) is an [AuthenticationProvider](#) implementation that uses a [UserDetailsService](#) and [PasswordEncoder](#) to authenticate a username and password.

This section examines how `DaoAuthenticationProvider` works within Spring Security. The following figure explains the workings of the [AuthenticationManager](#) in figures from the [Reading the Username & Password](#) section.

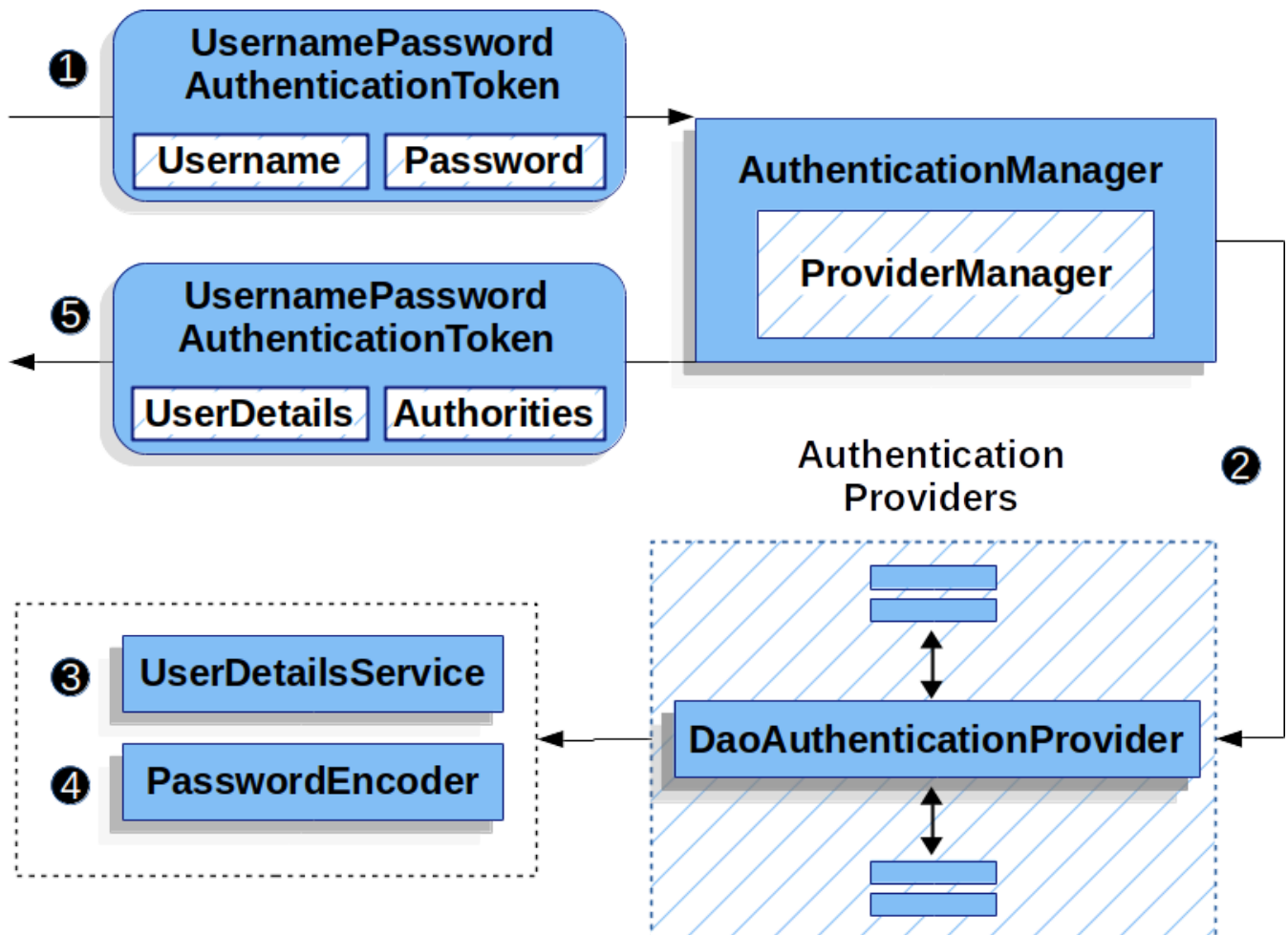


Figure 1. DaoAuthenticationProvider Usage

- ① The authentication Filter from the [Reading the Username & Password](#) section passes a `UsernamePasswordAuthenticationToken` to the `AuthenticationManager`, which is implemented by [ProviderManager](#).
- ② The `ProviderManager` is configured to use an `AuthenticationProvider` of type `DaoAuthenticationProvider`.

- 3 DaoAuthenticationProvider looks up the UserDetails from the UserDetailsService .
- 4 DaoAuthenticationProvider uses the [PasswordEncoder](#) to validate the password on the UserDetails returned in the previous step.
- 5 When authentication is successful, the [Authentication](#) that is returned is of type UsernamePasswordAuthenticationToken and has a principal that is the UserDetails returned by the configured UserDetailsService . Ultimately, the returned UsernamePasswordAuthenticationToken is set on the [SecurityContextHolder](#) by the authentication Filter .



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