

SPL: Assignment 6

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Task 4

- a)
 - **Static:** An example would be the colors that are linked to a certain user interface. In our case FXColour is linked to the GUI and ANSIColour is linked to the CLI, which is determined at compile time.
 - **Dynamic:** An example would be the authentication and encryption, as this behaviour changes upon the input which is given at runtime.
 - **Domain dependency:** Both the CLI and GUI depend on UI, because this is a abstract feature it depends on the ChatApp domain.
 - **Implementation dependency:** Because the colors directly depend on the platform its run on, we identify these as implementation dependent.
- b) We use the authentication and encryption. We can simply (but not securely) cut the functionality of encrypting the messages in the authentication stage.
- c) As mentioned above, removing the feature of encrypted passwords is not secure, and thus we have removed a feature. This gives us clean and thus more maintainable code.

We prefer the password communication to be secure and hope that software companies implement this as well for our authentication.