



Face Flashing System Design

Such a system is fairly complex. When the user starts the process, parameters are first generated and sent to the client. The client uses these to initialise, and then fetches challenges based on this (either background, lighting or a mixture of both). Each challenge has its own processing, although both use a similar processing approach. Meanwhile, face verification is achieved to ensure the user actually has a legal face, and expressions are also checked to ensure they are natural expressions. All of these components would be fairly complicated to implement, but this is still a possibility for a big part of the project.

Testing wise, there aren't currently many datasets to test the entire system (aside from getting users to trial it). Therefore, one could test each subsystem individually (verification, expressions) but for the challenge manager only a subset of images could be used.