

Authentication: The system can authenticate users. We send out initial emails with setup credentials and have a database containing all of the necessary information to authenticate users.

Authorization: The system does not currently differentiate between clients connected to the server in any way.

Audit: currently, none

Confidentiality: There is no confidentiality, but users can't see who sent responses at the moment.

Integrity: we don't have this either!

Note: For this sprint, we focused on getting the core functionality of the app working in an 'unsafe' (e.g. unencrypted) way. Now that this is done, in the next sprint we can focus on adding security features. Currently, we will have the server sign and distribute its certificate, and use that to securely share symmetric keys: an AES shared key for encryption, and MAC's for integrity (similarly to the second homework assignment)

Now that we have a database and can send multiple polls and responses between the clients and the server our next step is to secure the communications.