



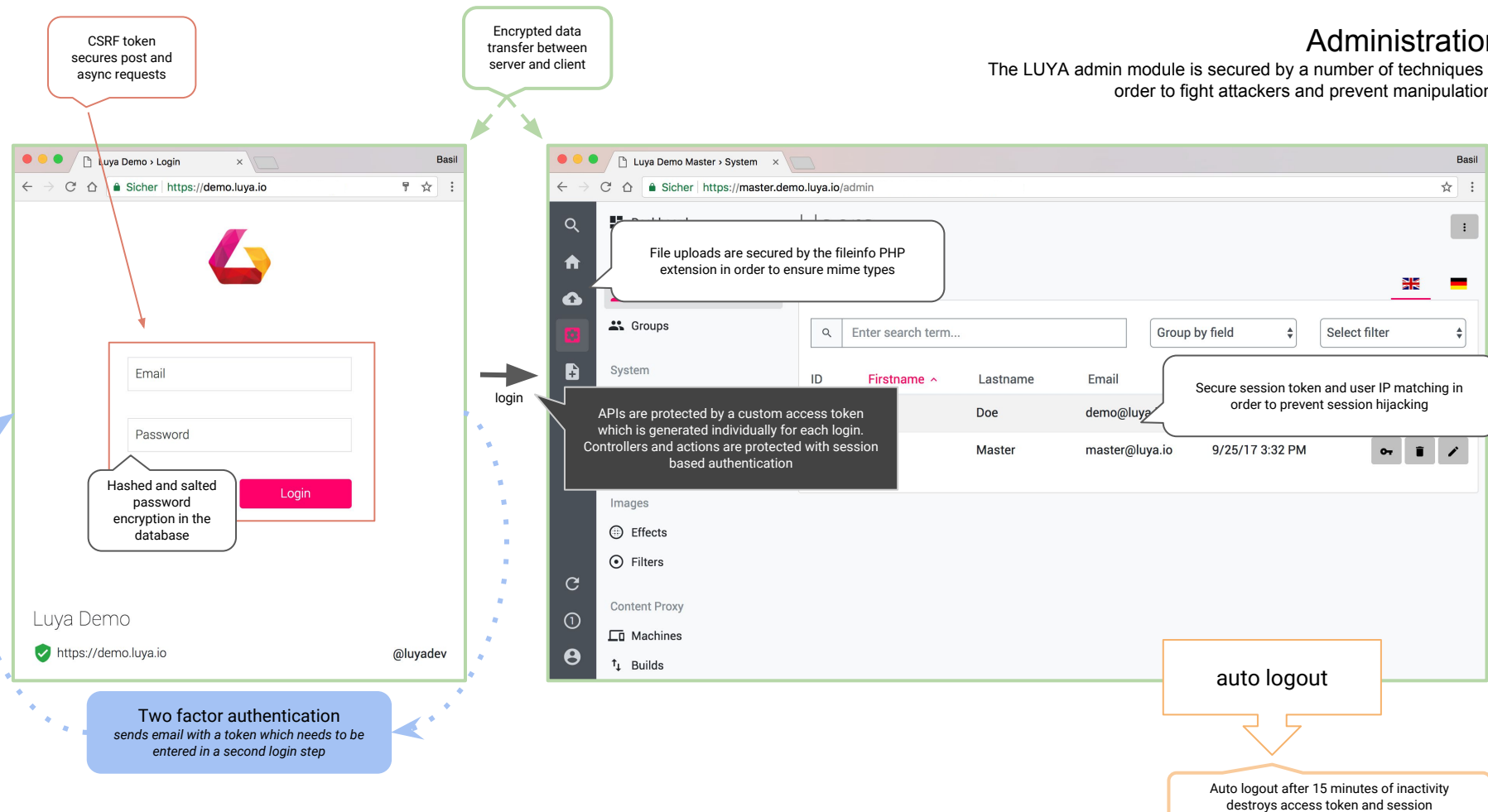
LUYA SECURITY

A brief visual overview of what we do in order to
secure your web application



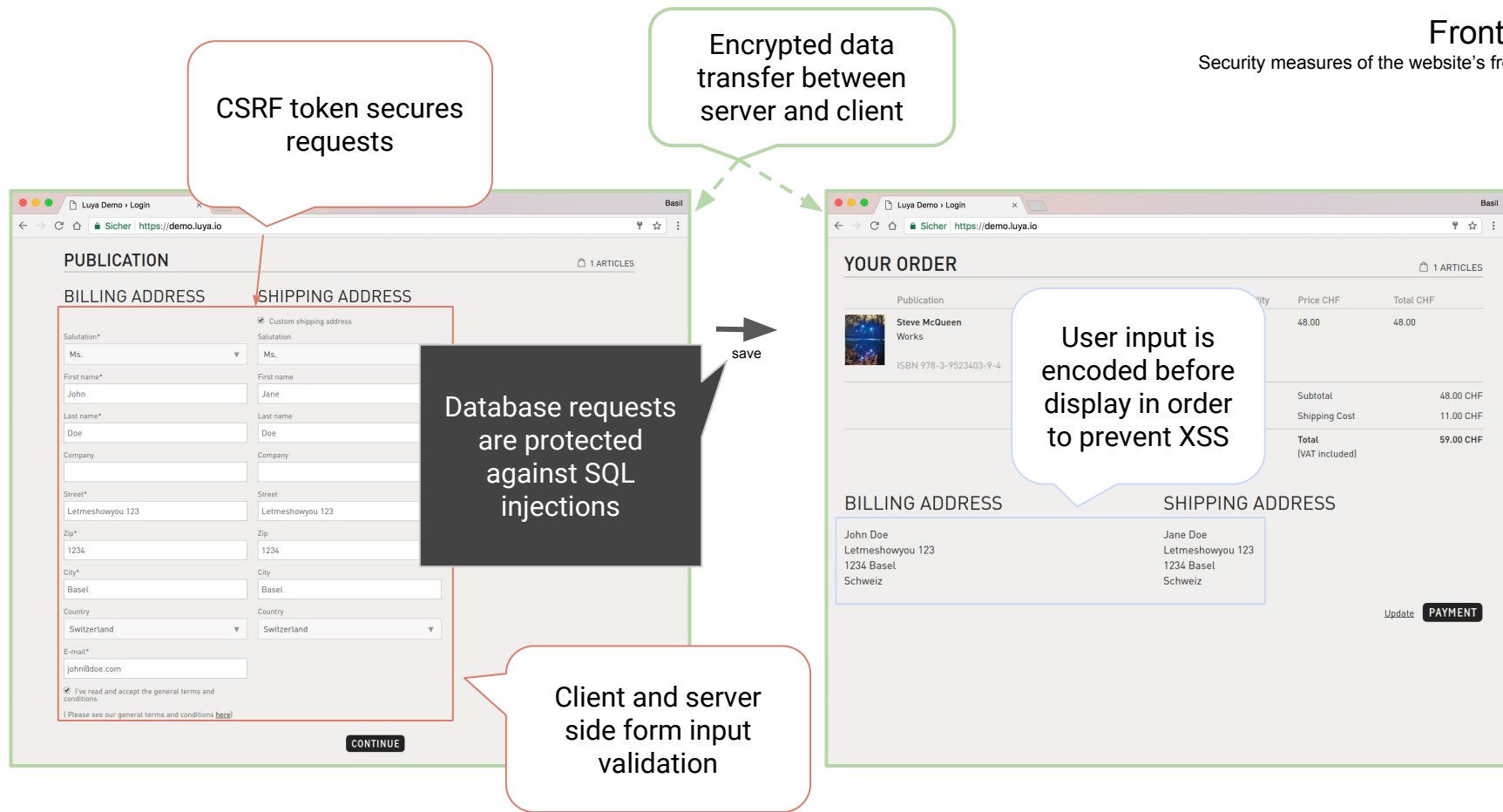
Administration

The LUYA admin module is secured by a number of techniques in order to fight attackers and prevent manipulations



- Any data change in the administration is logged with information about who changed what and when.
- Any user login is documented, with the user's IP address and access token.
- A user can only be logged in once. Concurrent logins by the same user are avoided by terminating the previous session.
- The two-way factor authentication sends a custom token to the user's email which has to be entered to complete login, therefore brute forcing is hindered and insecure passwords become less of a risk.
- We do not provide extension installation via a web interface – all extensions and modules are implemented via composer, therefore versioning and bug fixing is enforced.
- LUYA stores configurations and data in files so they can be tracked via VCS systems like GIT and a full change history is provided.





- All database requests are protected against SQL injections by the Yii 2 database abstraction layer, **data binding (filtering out malicious inputs) is used for all SQL statements.**
- CSRF: Cross-site request forgery (CSRF) is a typical web application vulnerability. It is based on the assumption that a user is authenticated at a legitimate website. Then he's visiting an attacker's website which issues requests to the legitimate website using JavaScript code, a form, tag or other means. This way, attackers could, for example, reset a victim's password or transfer funds from his bank account (in case the bank's website isn't secure, of course). In order to prevent such request forgery, **we use an encrypted token which is stored on the server and client side and is compared on each request.**
- MITM: Man in the middle attacks are prevented by using encrypted data transfers between client and server as **we use SSL.**
- XSS: Cross site scripting is commonly a problem when user data is returned, therefore **we use an encoding and HTML purifying technique.**
- To prevent attackers from stealing the cookie used to authenticate the user on the remote server and create a false identity to take over the user's session, **we store the access token in combination with the IP address and compare those values on each request.**
- File uploads to the storage system can contain dangerous files which then expose system informations. **We prevent this with a secure file upload which uses the PHP fileinfo extension to deep check mime types.**

