

Webmails are indispensable interfaces for working with the e-mail on the current Internet, mostly because of the simplicity of their deployment in browsers and easy integration with many provider-specific features. The most important features that are partially or fully missing in current open-source webmail implementations include directory-less mail organization by tags, navigation driven by a high-performance fulltext search, and integration of time-management capabilities. This thesis describes a new open-source alternative to advanced commercial webmails that possesses these features. The software integrates full-text search capabilities of the ElasticSearch database with current e-mail processing infrastructure on UNIX systems to create a back-end server application, which is used by a Javascript-based browser front-end. The performance of the solution is tested on a large e-mail dataset.