Patron notification system (under construction)

Modules description

**mod-notify**

Acts as a facade for sending patron notices. Uses **mod-template-engine** to generate messages and delegates sending to **mod-sender**.

Used by **mod-circulation** and **mod-feesfines** as an entry point to FOLIO's notifications delivery subsystem.

Relevant API documentation

**mod-sender**

Acts as an intermediary that sorts prepared messages and sends them through appropriate delivery channels. All technical complexity, sending queues, persistence of messages, available sending channels are regulated by this module. Used by **mod-notify** to redirect the message to the appropriate delivery channel (currently, only email channed is available, represented by **mod-email**).

Relevant API documentation

**mod-email**

Delivers messages using email delivery channel. Input data: message with delivery address. Relies on **mod-configuration** to get connection parameters. Used by **mod-sender** to send email messages.

Relevant API documentation

**mod-users**

Stores information about FOLIO users: name, status, address, contact information, patron group membership, etc. Used by **mod-sender** to get recipient's email address.

Relevant API documentation

**mod-configuration**

Stores configuration records. Used by **mod-template-engine** to get locale configuration, and by **mod-email** to get SMTP-server connection parameters.

Relevant API documentation

**mod-template-engine**

Module is responsible for storing message templates and generating the output in requested format (plain text, html, xml, doc, docx, etc.) from the template. Generated payload is described by meta information which contains info about format, size and date. Supports localization of templates. Used by **mod-notify** to generate messages from templates.

Relevant API documentation

Message delivery flowchart
(1) Delivery channel factory does not support `<channel>` delivery channel
(2) The `mod-config` module doesn't have a minimum config for SMTP server, the min config is: EMAIL_SMTP_HOST, EMAIL_SMTP_PORT, EMAIL_USERNAME, EMAIL_PASSWORD
(3) The message has been delivered to `<list_of_recipients>`
(4) Error in the `mod-email` module, the module didn't send email | message: `<message>`
(5) Template with id `<id>` does not exist
(6) Requested template does not support `'<format>'` output format
(7) Requested template does not have localized template for language `<language>`