

VU Workflow Modeling and Process Management

LVA-Nr: 188.924, SS2014

Group 10

MR1: Project Proposal v2

Team

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Project Description

The basic function of the system is, that it gives information about the TV- program to users. The user can subscribe for a program and then he receives information when and on which channel it is broadcasted. When subscribed for a program, the system also informs the consumer about changes in the schedule.

In addition it provides news about the program and informs the users about new program releases.

The user has the opportunity to add a comment to a TV program via e-mail. The comments are then added to the weekly news and are published on twitter.

If a channel introduces new series, it will also be posted on Twitter and added to the weekly news.

Recommendations will be sent to users based on their subscriptions. These recommendations are added to the weekly news.

The used data will be provided by <http://webgrabplus.com>.

Processflow

Build/Update DB-Process: Every day at 0:00 o'clock the data is fetched using Webgrabplus. Then the generated guide.xml file is transformed to messages and wrong/unnecessary/duplicate messages are filtered out. Those messages are enriched with ratings from other sites (e.g. IMDb). The following activities are executed parallel:

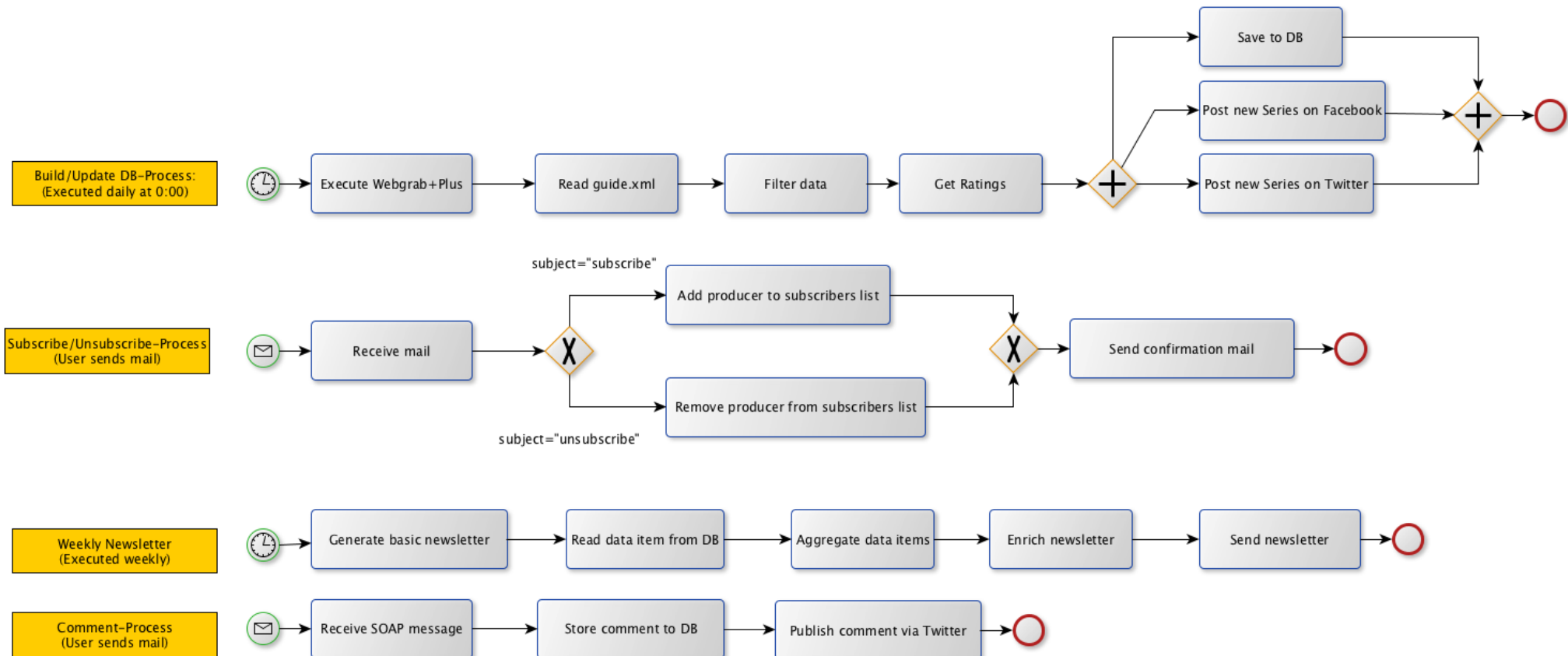
- The information is saved to the database
- If some new series/movies are available they are published in different social medias.

Subscribe/Unsubscribe-Process: We fetch emails from our mail server and based on the subject we either add or remove the the producer from the mailing list. Afterwards we send him a confirmation mail.

Weekly Newsletter: Newsletters are generated regularly, so this process is executed weekly. First the basic newsletter is generated (this part of the message is the same for every subscriber). Afterwards subscribers are loaded, messages enriched (with individual information) and send to all subscribers.

Comment-Process: We receive SOAP messages which are interpreted as comments, which are stored in our database. Afterwards comments are posted on Twitter.

Processflow (BPMN model)



EIP's

| | |
|-----------------------|--|
| Resequencer | Reorder series for newsletter depending on air time |
| Content Filter | Filter uninteresting data (eg. video/aspect from xml file) |
| Wire Tap | Backup series |
| Publish Subscribe | Newsletter |
| Polling Consumer | Fetch/Update series data every day at 00:00 |
| Content Enricher | Attach official ratings to series (eg. from imdb.com) |
| Normalizer | Normalize ratings from different sources |
| Recipient List | Updates: Twitter, Facebook, Database |
| Message Filter | Discard duplicate records |
| Dead Letter Channel | If exceptions occur, send message to dead letter channel |
| Aggregator | Aggregate series for newsletter |
| Message History | Backtrace messages |
| Event driven consumer | Process incoming mails (event-based) |

Components:

| | |
|--------------|--|
| file | Read Guide.xml file |
| sql | Read/Save from/to SQL Database |
| facebook | Post to Facebook |
| twitter | Post Twitter |
| rest | Request IMDb via REST |
| smtp | Receiving/Sending emails |
| mock OR test | mock or test component for Unit testing (depends on impl.) |
| cxf | Receiving SOAP messages |