Monitoring system
Software Requirements Specification

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Purpose of the document

The document describes the Monitoring System user and functional requirements. The following stakeholders should read this document:

- product owner;
- project manager;
- business analysts;
- developers;
- quality assurance engineers.

Changelog

Date	Version	Author	Description
27.07.2018	0.1.0	I.Belsky	First version

Contents

Overview

The aim of the application is to accept log messages from a third party application by REST, save them and provide these messages. Firstly, a administrator has to configure a project with submodules for the third party application and after that, the application can accept the log messages. Secondly, after saving log messages in the system, the administrator is able to search log messages by defined filters and review them.

Logs and projects management use cases

UC-LG-01: Log in to system

Goal: Authentication in system.
Actor: Project administrator.
Precondition: Actor is not authenticated.
Postcondition: Actor is authenticated.

Main flow:
1. Actor authenticates by form <u>FR-02</u> and pushes button <u>FR-02</u>(3).
2. The system tries to authenticate the actor.
3. The system grants user privileges.
4. The system shows list of projects <u>UI-02</u>.

Alternative flows:
2a. **If** the actor supplies invalid login or password <u>FR-02</u> **then** the system shows <u>M-01</u>.

UC-LG-02: Save log message to system

Goal: Accept log message from third party application.
Actor: Third party application.
Precondition: A project for saving of log file is configured by <u>UC-LG-04</u>.
Postcondition: The log message is saved in database of system.

Main flow:
1. Actor sends the log message to the system.
2. The system tries to authenticates the actor.
3. The system saves the log message in the system.
4. The system sends a response to actor <u>RS-01</u>.

Alternative flows:
2a. **If** the project of the actor is configured wrong **then** system sends error response <u>RS-02</u>.
2b. **If** a format message is wrong **then** system sends error response <u>RS-02</u>.

UC-LG-03: View log messages

Goal: View log messages of third party application.

Actor: Project administrator.
Precondition: The actor is authenticated. The message is saved by <u>UC-LG-02</u>.
Postcondition: The system shows list of log messages.

Main flow:
1. Actor fills some filters from <u>FR-01</u> (<u>UI-04</u>) and pushes button of <u>FR-01</u>(5).
2. The system displays found log messages <u>UI-04</u>.

Alternative flows:
2a. **If** the log messages were not found **then** system displays <u>M-02</u> message.

UC-LG-04: Configure project

Goal: Configure project for accepting the log messages.
Actor: Project administrator.
Precondition: The actor is authenticated.
Postcondition: New project is configured in the system.

Main flow:
1. Actor fills form <u>FR-03</u> and pushes button <u>FR-03</u>(4).
2. The system validates data and saves new project.

Alternative flows:
2a. **If** the new project exists **then** system displays <u>M-03</u> message .

UC-LG-05: View full log message

Goal: View full log message of third party application from <u>UC-LG-03</u>.
Actor: Project administrator.
Precondition: The systems shows list of log messages from <u>UC-LG-03</u>.
Postcondition: The system shows a full found log message.

Main flow:
1. Actor activates a log message from <u>FR-01(6)</u>.
2. The system displays log message <u>FR-04</u>.

Interface requirements

FR-01: Filter for UI-04

Id	Title	Type	Description
1	After	Text	Start of date of the filter.
2	Before	Text	End of date of the filter.
3	Severity	Text	Severity of search. Available values: - *High;* - *Low.*
4	Regexp	Text	Regexp of search.
5	Submit	Action	Apply the filters.
6	Message	Action	Log message.

FR-02: Form for UI-01

Id	Title	Type	Description
1	Username	Text	User name of administrator.
2	Password	Text	Password administrator.
3	Submit	Action	Authenticates the user.

FR-03: Form for UI-03

Id	Title	Type	Description
1	Name	Text	Name of the project.
2	Submodules	Text	Submodules of the project.
3	Description	Text	Description of the project.
4	Submit	Action	Creates the project.
5	Cancel	Action	Clothes the page.
6	Delete	Action	Deletes a module.
7	Ok/Exists	Text	Validates project/module name.

FR-04: Form for UI-05

Id	Title	Type	Description
1	Log message	Text	Full log message.
2	New search	Action	Go to UI-04.
3	Home	Action	Go to UI-02.

Messages

M-01: Wrong login or password.
Referenced from: **UC-LG-01**.
Message: Wrong login or password.

M-02: No messages for this project.
Referenced from: **UC-LG-03**.
Message: No messages for this project.

M-03: A project with the same name exists.
Referenced from: **UC-LG-04**.
Message: A project with the same name exists.

Responses

RS-01: Success status message.
Referenced from **UC-LG-02**
Message: {"status":"success"}

RS-02: Error status message.
Referenced from **UC-LG-02**
Message: {"status":"error"}

Technical requirements

Classes diagram
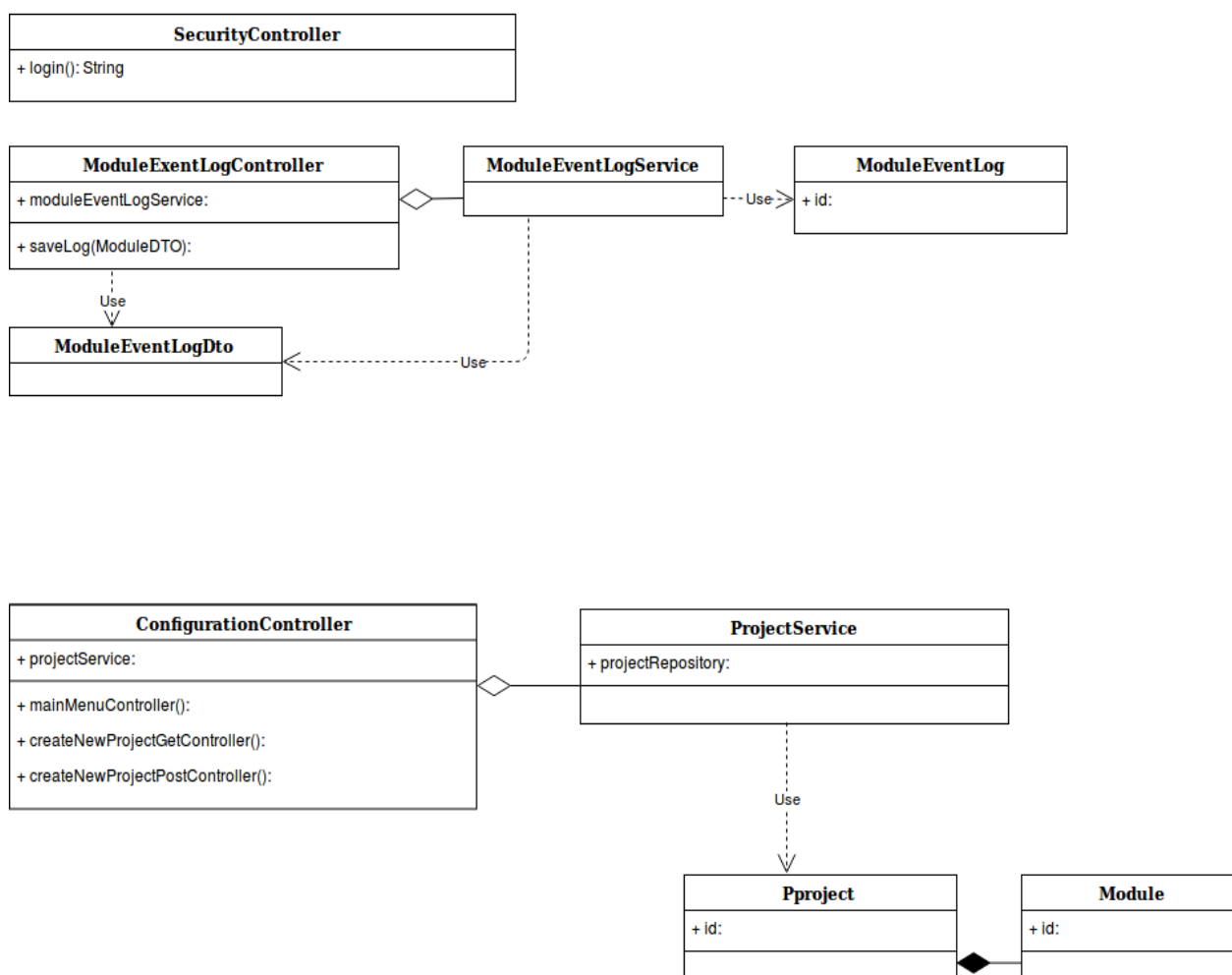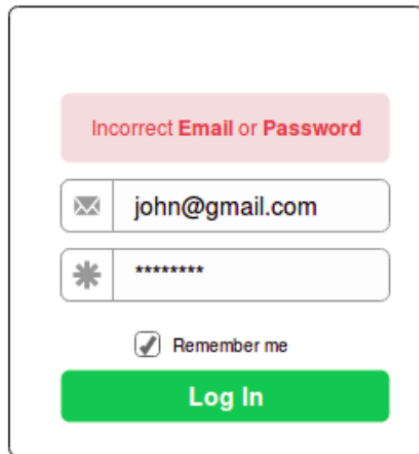
Figure 1: Classes diagram.

Views

Figure 2: Login form UI-01.

Figure 3: Projects form UI-02.

Figure 4: Create/update project form UI-03.

Figure 5: Search of logs UI-04.

Module name	Module type	Log typ

Log message.

Panel content

New search   Home

Figure 6: Review log UI-05.

Glossary

Third party system – application which sends logs information to the system.
Project administrator – a person who set third party system to send information to the system.