

# **Monitoring system**

## Software Requirements Specification

Contact person:  
Igor Belsky  
[igor.belsky@vrpconsulting.com](mailto:igor.belsky@vrpconsulting.com)

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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

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## 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 FR-02 and pushes button FR-02(3).
2. The system tries to authenticate the actor.
3. The system grants user privileges.
4. The system shows list of projects UI-02.

**Alternative flows:**

- 2a. **If** the actor supplies invalid login or password FR-02 **then** the system shows M-01.

### 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 UC-LG-04.

**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 RS-01.

**Alternative flows:**

- 2a. **If** the project of the actor is configured wrong **then** system sends error response RS-02.
- 2b. **If** a format message is wrong **then** system sends error response RS-02.

### 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 UC-LG-02.

**Postcondition:** The system shows list of log messages.

**Main flow:**

1. Actor fills some filters from FR-01 (UI-04) and pushes button of FR-01(5).
2. The system displays found log messages UI-04.

**Alternative flows:**

- 2a. **If** the log messages were not found **then** system displays M-02 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 FR-03 and pushes button FR-03(4).
2. The system validates data and saves new project.

**Alternative flows:**

- 2a. **If** the new project exists **then** system displays M-03 message .

### **UC-LG-05: View full log message**

**Goal:** View full log message of third party application from UC-LG-03.

**Actor:** Project administrator.

**Precondition:** The systems shows list of log messages from UC-LG-03.

**Postcondition:** The system shows a full found log message.

**Main flow:**

1. Actor activates a log message from FR-01(6).
2. The system displays log message FR-04.

## Interface requirements

### FR-01: Filter for UI-04

<b>Id</b>	<b>Title</b>	<b>Type</b>	<b>Description</b>
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: - <i>High</i> ; - <i>Low</i> .
4	Regexp	Text	Regexp of search.
5	Submit	Action	Apply the filters.
6	Message	Action	Log message.

### FR-02: Form for UI-01

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

### FR-03: Form for UI-03

<b>Id</b>	<b>Title</b>	<b>Type</b>	<b>Description</b>
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	Closes the page.
6	Delete	Action	Deletes a module.
7	Ok/Exists	Text	Validates project/module name.

#### **FR-04:** Form for UI-05

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

### **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

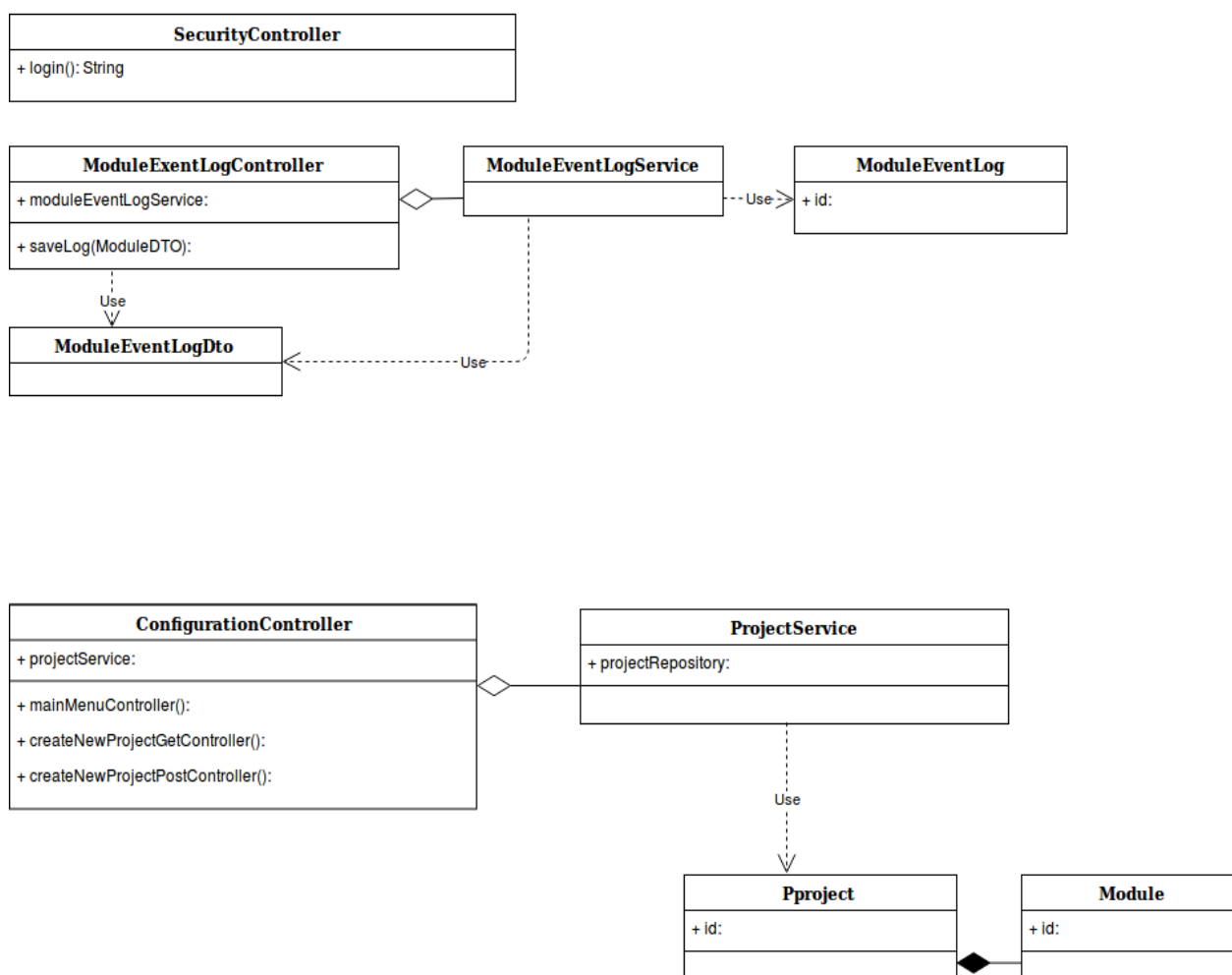
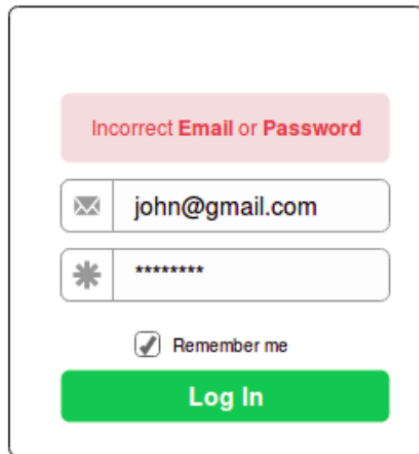


Figure 1: Classes diagram.

## Views



The login form UI-01 is a rectangular box with a light gray border. At the top, there is a red rectangular box with the text "Incorrect Email or Password" in white. Below this, there are two input fields: the first has an email icon and the text "john@gmail.com"; the second has a password icon (a star) and the text "\*\*\*\*\*". Below the input fields, there is a checkbox with the text "Remember me". At the bottom, there is a green rectangular button with the text "Log In" in white.

Figure 2: Login form UI-01.

Project name	Description	
Project 1	Hello! At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Name libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo.	<button>View</button> <button>Edit</button> <button>Delete</button>
Project 2	Hello, deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat.	<button>View</button> <button>Edit</button> <button>Delete</button>
Project 3	Hello! Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat	<button>View</button> <button>Edit</button> <button>Delete</button>

Figure 3: Projects form UI-02.

Project name

Ok

Project description

Modules

Module 1

Ok

Delete

Module 2

Exists

Delete

(N=4)

Cancel

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

Filters

Logs messages

Date

After

Before

Severity

Severity type

Regexp

Date	Type	Message
12-03-2018	Any type	Log information
12-03-2018	Any type	Log information
12-03-2018	Any type	Log information
12-03-2018	Any type	Log information

Search

Home

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.