



VOICESOM

ИНСТРУКЦИЯ ПО ДОСТУПУ К ЭКЗЕМПЛЯРУ ПО

**МАИКС (MAICS): Многофункциональная система
обработки входящих и выполнения исходящих
голосовых и текстовых сообщений**

ООО «ВОЙС КОММЬЮНИКЭЙШН»**2022 г.****ЛИСТ РЕГИСТРАЦИИ ИЗМЕНЕНИЙ**

| Дата | Версия | Описание изменений | ФИО |
|-------------|---------------|---------------------------|------------|
| 01.05.2022 | 1.0 | Создание документа | |
| | | | |
| | | | |

Оглавление

| | |
|---|---|
| 1 | 3 |
| 2 | 4 |
| 3 | 6 |
| 4 | 7 |
| 5 | 9 |

1 ТЕРМИНЫ И ОПРЕДЕЛЕНИЯ

| Термины/сокращения | Определение |
|---------------------|---|
| АТС | Автоматическая телефонная станция |
| Система (МАИКС, ИС) | Информационная система. Многофункциональная система обработки входящих и выполнения исходящих голосовых и текстовых сообщений |
| ПО | Программное обеспечение |
| Asterisk | ПО компьютерной телефонии |
| Дистрибутив | Набор файлов ПО, необходимый для установки и запуска |
| ЗПС | Замкнутая программная среда |
| БД | База данных |

2 ВВЕДЕНИЕ

Система предназначена для создания автоматизированных кампаний информирования и проведения опросов по каналам интернет-телефонии, а также с использованием иных доступных каналов связи, таких как email, sms.

Функции системы предоставляют пользователям возможности:

- Работа с пользователями системы:
 - Создание;
 - Редактирование;
 - Удаление.
- Работа со сценариями:
 - Создание;
 - Редактирование;
 - Удаление;
 - Доступен визуальный редактор для построения сценария;
 - Доступно табличное представление сценария;
 - Доступен функционал тестирования сценария. Проверка и устранение недостатков перед запуском кампании.
- Работа с кампаниями:
 - Создание;
 - Редактирование;
 - Удаление.

- Журнал изменений. Полное логирование работы системы;

Система устанавливается в ЗПС. Информация о местонахождении (фактические адреса):

Фактический адрес (адреса) размещения инфраструктуры разработки: 600016, Владимир, Добросельская, 4а.

Фактический адрес (адреса) размещения разработчиков: 600015, г.Владимир, ул.Разина, д. 21, офис 403

Фактический адрес (адреса) размещения службы поддержки: 600015, г.Владимир, ул.Разина, д. 21, офис 403

Фактический адрес (адреса) размещения серверов, на которых развернут Продукт: 600016, Владимир, Добросельская, 4а.

3 ДОСТУП К ЭКЗЕМПЛЯРУ СИСТЕМЫ

Для того, чтобы войти в систему, необходимо пройти процедуру аутентификации. Для этого необходимо подключиться к серверу под своей учетной записью по ssh с указанием ip или доменного имени:

- Команда `ssh sir@cabinet.maics.ru`

Далее, при необходимости, нужно повысить привилегии в системе:

- Команда `sudo -s.`

Правообладатель готов продемонстрировать работоспособность и функциональность , для чего просим связаться по контактам:

- Номер телефона: 89209118191
- ФИО: Тихомирова Евгения Юрьевна
- Email. e.tikhomirova@voice-technology.ru

4 СТРУКТУРА СИСТЕМЫ

Структурная схема системы отображена ниже на рисунке.

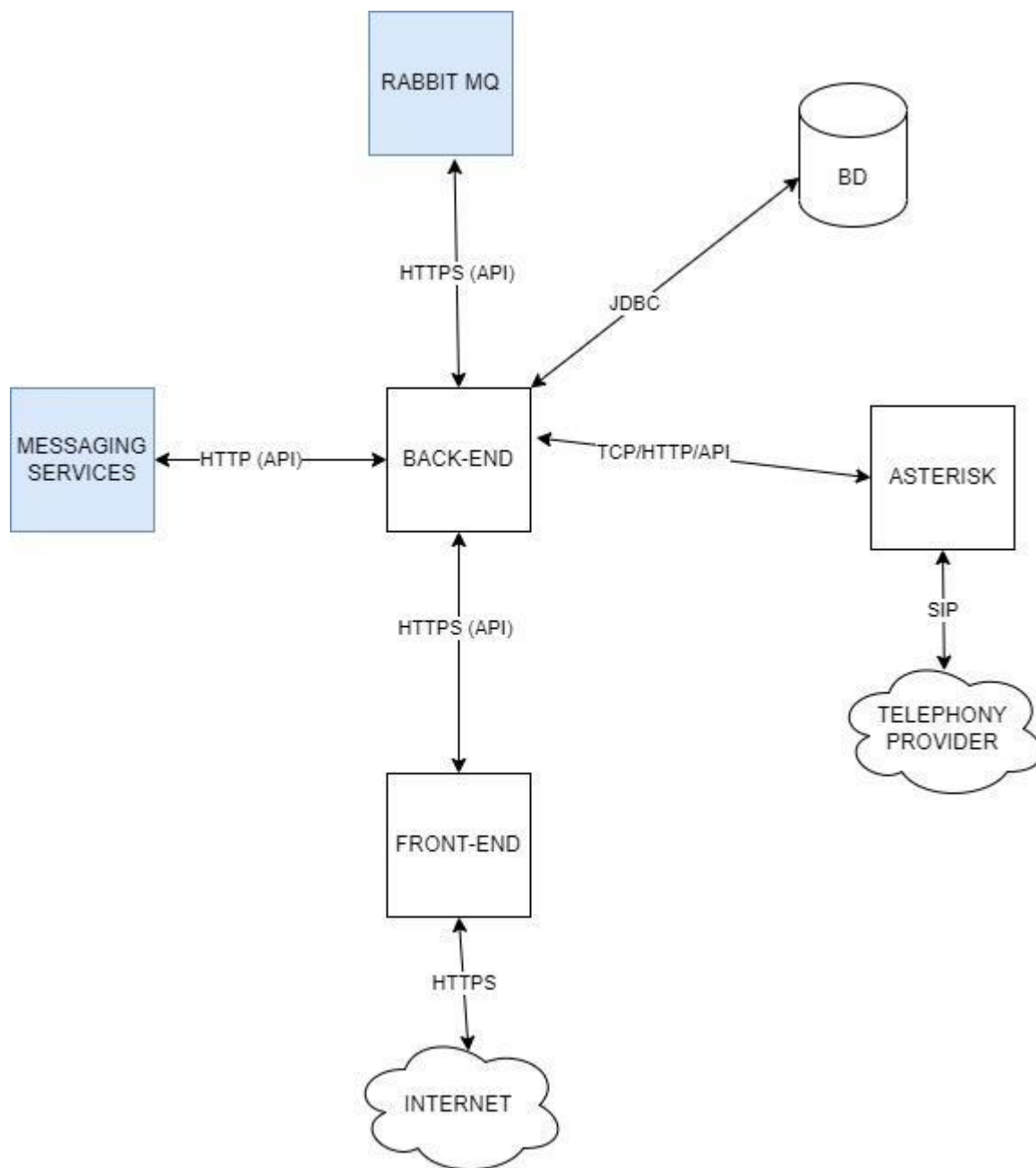


Рисунок 1. Структурная схема

Компоненты системы представляют собой:

- BackEnd. Ядро системы. Функции:

- Аутентификация и авторизация пользователя;
 - Проверка права пользователя на выполнение действия;
 - Создание заданий;
 - Создание и редактирования сценария (анкеты);
 - Создание и редактирование кампаний.
- База данных. Хранит очереди заданий на обзвон и очереди номеров для обзвона и списки расписаний, настройки для проектов, учетные записи пользователей, сформированные анкеты, вопросы. БД PostgreSQL;
- Asterisk. Виртуальная АТС. Входящие и исходящие вызовы;
- Шина RabbitMQ. Обмен данными, в том числе асинхронный;
- Messagings Services. Сервис отправки email и sms сообщений.

5 СТРУКТУРА КАТАЛОГОВ СИСТЕМЫ И ИХ ФУНКЦИОНАЛЬНОЕ НАЗНАЧЕНИЕ

Компоненты располагаются в следующих директориях:

/var/lib/tomcat8/webapps/backend/WEB-INF/classes/110n/strings - файлы с переводом строк и сообщений

/var/lib/tomcat8/webapps/backend/WEB-INF/classes/ru/voicecom/maics/configuration - классы конфигураций

/var/lib/tomcat8/webapps/backend/WEB-INF/classes/ru/voicecom/maics/endpoints/controllers – REST API приложения

/var/lib/tomcat8/webapps/backend/WEB-INF/classes/spring.properties – конфигурация бэкенда

/var/lib/tomcat8/webapps/backend/WEB-INF/lib – вспомогательные библиотеки и адаптеры к внешним системам

/opt/dialer/application.conf – конфигурация дайлера

Таблица 1. Лицензии библиотек, фреймворков, языков программирования, использованных при разработке компонентов системы

| № | Сторонний компонент/сервис | Название лицензии | Ссылка на лицензию | Ссылка на репозиторий |
|---|----------------------------|---------------------|---|---|
| 1 | PostgreSQL | Лицензия PostgreSQL | https://opensource.org/licenses/postgresql | https://github.com/postgres/postgres |
| 2 | Asterisk | GNU GPL License | https://opensource.org/licenses/gpl-2.0.php | https://github.com/asterisk/asterisk |
| 3 | Apache Tomcat | Apache License 2.0 | https://www.apache.org/licenses/LICENSE-2.0 | https://github.com/apache/tomcat |

| | | | | |
|----|------------------------------------|---|---|---|
| 4 | <i>MinIO</i> | <i>AGPL-3.0</i> | https://min.io/compliance | https://github.com/minio/minio |
| 5 | <i>Docker Engine</i> | <i>Apache License 2.0</i> | https://www.docker.com/legal/components-licenses | https://docs.docker.com/engine/install/ |
| 6 | <i>OS Debian</i> | <i>GNU GPL License</i> | https://www.debian.org/legal/licenses/gpl2 | https://wiki.debian.org/ru/DebianRepository |
| 7 | <i>groovyAll 2.5.6</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/groovy |
| 8 | <i>groovy 2.5.6</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/groovy |
| 9 | <i>groovySql 2.5.6</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/groovy |
| 10 | <i>groovyMacro 2.5.6</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/groovy |
| 11 | <i>springContext 5.1.0.RELEASE</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-framework |
| 12 | <i>springCore 5.1.0.RELEASE</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-framework |
| 13 | <i>springBeans 5.1.0.RELEASE</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-framework |

| | | | | |
|----|---|---|---|---|
| 14 | <i>springWeb 5.1.0.RELEASE</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-framework |
| 15 | <i>springWebMvc 5.1.0.RELEASE</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-framework |
| 16 | <i>springJdbc 5.1.0.RELEASE</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-framework |
| 17 | <i>springTransaction 5.1.0.RELEASE</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-framework |
| 18 | <i>springSecurity 5.1.0.RELEASE</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/spring-projects/spring-security |
| 19 | <i>springSecurityConfig 5.1.0.RELEASE</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/spring-projects/spring-security |
| 20 | <i>springSecurityWeb 5.1.0.RELEASE</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/spring-projects/spring-security |
| 21 | <i>springSecurityTest 5.1.0.RELEASE</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/spring-projects/spring-security |
| 22 | <i>springSecurityLdap 5.1.0.RELEASE</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/spring-projects/spring-security |

| | | | | |
|----|--|---|---|---|
| 23 | <i>springLdapCore</i> 2.3.3.RELEASE | <i>The Apache Software License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/spring-projects/spring-ldap |
| 24 | <i>swagger</i> 2.9.2 | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/springfox/springfox |
| 25 | <i>swaggerUi</i> 2.9.2 | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/springfox/springfox |
| 26 | <i>swaggerAnnotations</i> 2.1.6 | <i>Apache License 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.html | https://github.com/swagger-api/swagger-core |
| 27 | <i>swaggerCodegenCli</i> 3.0.25 | <i>Apache License 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.html | https://github.com/swagger-api/swagger-codegen |
| 28 | <i>springBootStarter</i> 2.3.3.RELEASE | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-boot |
| 29 | <i>springBootStarterWeb</i> 2.3.3.RELEASE | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-boot |
| 30 | <i>springBootStarterJdbc</i> 2.3.3.RELEASE | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-boot |
| 31 | <i>springBootDevTools</i> 2.3.3.RELEASE | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-boot |

| | | | | |
|----|-------------------------------|---|---|---|
| 32 | <i>aspectj 1.9.6</i> | <i>Eclipse Public License - v 2.0</i> | https://github.com/eclipse/org.aspectj/blob/master/LICENSE | https://github.com/eclipse/org.aspectj |
| 33 | <i>akkaActor 2.5.22</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0 | https://github.com/akka/akka |
| 34 | <i>akkaHttp 10.1.8</i> | <i>Apache-2.0</i> | https://opensource.org/licenses/Apache-2.0 | https://github.com/akka/akka-http |
| 35 | <i>akkaStream 2.5.22</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0 | https://github.com/akka/akka |
| 36 | <i>akkaHttpJackson 10.1.8</i> | <i>Apache-2.0</i> | https://opensource.org/licenses/Apache-2.0 | https://github.com/akka/akka |
| 37 | <i>logging 1.8.0-beta2</i> | <i>MIT License</i> | http://www.opensource.org/licenses/mit-license.php | https://github.com/qos-ch/slf4j |
| 38 | <i>slf4jApi 1.8.0-beta2</i> | <i>MIT License</i> | http://www.opensource.org/licenses/mit-license.php | https://github.com/qos-ch/slf4j |
| 39 | <i>apacheExtras 1.2.17</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | http://svn.apache.org/viewvc/logging/log4j/companions/extras/tags/apache-log4j-extras-1.2.17/ |
| 40 | <i>jackson 2.10.2</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/FasterXML/jackson |
| 41 | <i>jacksonXml 2.10.2</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/FasterXML/jackson-dataformat-xml |

| | | | | |
|----|----------------------------------|---|---|---|
| 42 | <i>jacksonJavaTime 2.10.2</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/FasterXML/jackson-datatype-jsr310 |
| 43 | <i>jacksonJDK8 2.10.2</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/FasterXML/jackson-datatype-jdk8 |
| 44 | <i>guava 26.0-jre</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/google/guava |
| 45 | <i>classGraph 4.4.7</i> | <i>The MIT License (MIT)</i> | http://opensource.org/licenses/MIT | https://github.com/classgraph/classgraph |
| 46 | <i>vavr 0.10.3</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/vavr-io/vavr |
| 47 | <i>vavrJackson 8.9.2</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/vavr-io/vavr |
| 48 | <i>reactiveStreams 1.0.2</i> | <i>MIT No Attribution</i> | http://creativecommons.org/publicdomain/zero/1.0/ | https://github.com/reactive-streams/reactive-streams-jvm |
| 49 | <i>reactorCore 3.2.6.RELEASE</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/reactor/reactor-core |
| 50 | <i>protobufJava 3.6.1</i> | <i>3-Clause BSD License</i> | https://opensource.org/licenses/BSD-3-Clause | https://github.com/protocolbuffers/protobuf/tree/main/java |

| | | | | |
|----|---------------------------------------|---|---|---|
| 51 | <i>apacheHttpClient 4.5.2</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/httpcomponents-client |
| 52 | <i>jaxen 1.1.6</i> | <i>New BSD License</i> | http://jaxen.codehaus.org/license.html | https://github.com/jaxen-xpath/jaxen |
| 53 | <i>javaxValidationApi 2.0.1.Final</i> | <i>Apache License 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/eclipse-ee4j/beanvalidation-api |
| 54 | <i>apacheAnt 1.10.5</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://gitbox.apache.org/repos/asf?p=ant.git;a=summary |
| 55 | <i>jdom 1.1</i> | <i>opensource custom BSD-license</i> | https://github.com/hunterhacker/jdom/blob/master/LICENSE.txt | https://github.com/hunterhacker/jdom |
| 56 | <i>googleProtobuf 3.6.1</i> | <i>3-Clause BSD License</i> | https://opensource.org/licenses/BSD-3-Clause | https://github.com/protocolbuffers/protobuf/tree/main/java |
| 57 | <i>commonsIo 2.6</i> | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/commons-io |
| 58 | <i>commonsCli 1.4</i> | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/commons-cli |
| 59 | <i>commonsLang3 3.8</i> | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/commons-lang/ |
| 60 | <i>freemarker 2.3.28</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/freemarker |

| | | | | |
|----|-------------------------------------|---|---|---|
| 61 | <i>logstashGelf 1.13.0</i> | <i>MIT License</i> | http://www.opensource.org/licenses/mit-license.php | https://github.com/mp911de/logstash-gelf/ |
| 62 | <i>apacheIO 2.6</i> | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://gitbox.apache.org/repos/asf?p=commons-io.git |
| 63 | <i>spock 1.3-groovy-2.5</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/spockframework/spock |
| 64 | <i>byteBuddy 1.8.22</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/raphw/byte-buddy |
| 65 | <i>objenesis 2.6</i> | <i>Apache 2</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/easymock/objenesis |
| 66 | <i>spockSpring 1.3-groovy-2.5</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/spockframework/spock |
| 67 | <i>springTest 5.1.0.RELEASE</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-framework |
| 68 | <i>embeddedPostgres 0.13.3</i> | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/opentable/otj-pg-embedded |
| 69 | <i>springBootTest 2.3.3.RELEASE</i> | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0 | https://github.com/spring-projects/spring-boot |

| | | | | |
|----|------------------------------------|--|---|---|
| 70 | <i>akkaActorTestkit</i> 2.5.22 | Apache-2.0 | https://opensource.org/licenses/Apache-2.0 | https://github.com/akka/akka |
| 71 | <i>akkaHttpTestkit</i> 10.1.8 | Apache-2.0 | https://opensource.org/licenses/Apache-2.0 | https://github.com/akka/akka |
| 72 | <i>akkaStreamTestkit</i> 2.5.22 | Apache-2.0 | https://www.apache.org/licenses/LICENSE-2.0.html | https://github.com/akka/akka |
| 73 | <i>mockServer</i> 5.5.1 | The Apache Software License, Version 2.0 | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/mock-server/mockserver |
| 74 | <i>testng</i> 7.3.0 | Apache License, Version 2.0 | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/cbeust/testng |
| 75 | <i>mockitoCore</i> 2.15.0 | The MIT License | https://github.com/mockito/mockito/blob/master/LICENSE | https://github.com/mockito/mockito |
| 76 | <i>mockitoAll</i> 1.7 | The MIT License | http://code.google.com/p/mockito/wiki/License | https://github.com/mockito/mockito |
| 77 | <i>hamcrestAll</i> 1.1 | BSD style | http://www.opensource.org/licenses/bsd-license.php | https://github.com/hamcrest/JavaHamcrest |
| 78 | <i>hamcrestCore</i> 1.3 | New BSD License | http://www.opensource.org/licenses/bsd-license.php | https://github.com/hamcrest/JavaHamcrest |
| 79 | <i>hamcrestLibrary</i> 1.3 | New BSD License | http://www.opensource.org/licenses/bsd-license.php | https://github.com/hamcrest/JavaHamcrest |

| | | | | |
|----|--------------------------------------|---|---|---|
| 80 | <i>httpBuilderNG 1.0.3</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/http-builder-ng/http-builder-ng/ |
| 81 | <i>apacheCommonsText 1.8</i> | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/commons-text |
| 82 | <i>testContainersPostgres 1.15.1</i> | <i>MIT</i> | http://opensource.org/licenses/MIT | https://github.com/testcontainers/testcontainers-java |
| 83 | <i>testContainersSpock 1.15.1</i> | <i>MIT</i> | http://opensource.org/licenses/MIT | https://github.com/testcontainers/testcontainers-java |
| 84 | <i>tcLocalstack 1.15.1</i> | <i>MIT</i> | http://opensource.org/licenses/MIT | https://github.com/testcontainers/testcontainers-java |
| 85 | <i>myBatis 3.4.6</i> | <i>The Apache Software License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/mybatis/mybatis-3/tree/master/src/site |
| 86 | <i>myBatisSpring 2.0.4</i> | <i>The Apache Software License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/mybatis/spring/tree/master/src/site |
| 87 | <i>postgresql 42.2.5</i> | <i>BSD-2-Clause</i> | https://jdbc.postgresql.org/about/license.html | https://github.com/pgjdbc/pgjdbc |
| 88 | <i>hikariCP 3.3.1</i> | <i>The Apache Software License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/brettwooldridge/HikariCP |
| 89 | <i>validationProvider 1.0.0.GA</i> | <i>Apache License Version 2.0</i> | https://github.com/eclipse-ee4j/beanvalidation-api/blob/master/license.txt | https://github.com/eclipse-ee4j/beanvalidation-api |

| | | | | |
|----|--------------------------------|--|--|---|
| 90 | <i>hsqldb 1.8.0.10</i> | <i>HSQldb License, a BSD open source license</i> | http://hsqldb.org/web/hsqlLicense.html | https://sourceforge.net/projects/hsqldb/files/ <i>mirror</i> https://github.com/OndraZizka/HSQldb |
| 91 | <i>wsStandaloneClient 1.15</i> | <i>Eclipse Public License 2.0 GNU General Public License, version 2 with the GNU Classpath Exception</i> | https://projects.eclipse.org/license/epl-2.0 https://projects.eclipse.org/license/secondary-gpl-2.0-cp | https://github.com/eclipse-ee4j/tyrus |
| 92 | <i>apachePoi 4.1.2</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/poi |
| 93 | <i>apachePoiOOXML 4.1.2</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/poi |
| 94 | <i>fileupload 1.4</i> | <i>Apache License, Version 2.0</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://gitbox.apache.org/repos/asf?path=commons-fileupload.git |
| 95 | <i>tikaParsers 1.23</i> | <i>Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/apache/tika/ |
| 96 | <i>sox 1.0.3</i> | <i>MIT License</i> | http://www.opensource.org/licenses/mit-license.php | https://github.com/corballis/sox-wrapper-java |

| | | | | |
|-----|--------------------------------|---|--|---|
| 97 | zip 2.5.1 | Apache License, Version 2.0 | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/srikanth-lingala/zip4j |
| 98 | libphonenumber 8.10.14 | The Apache Software License, Version 2.0 | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/googlei18n/libphonenumber/ |
| 99 | googleTranscription 1.22.1 | Apache-2.0 | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/googleapis/google-cloud-java/tree/main/google-cloud-clients/google-cloud-speech |
| 100 | passay 1.5.0 | Apache 2 GNU Lesser General Public License | http://www.apache.org/licenses/LICENSE-2.0.txt http://www.gnu.org/licenses/lgpl-3.0.txt | https://github.com/vt-middleware/passay |
| 101 | minio 8.3.0 | The Apache License, Version 2.0 | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/minio/minio-java |
| 102 | hibernateValidator 6.1.1.Final | Apache License 2.0 | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/hibernate/hibernate-validator |
| 103 | jakartaValidation 2.0.2 | Apache License 2.0 | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/eclipse-ee4j/beanvalidation-api |
| 104 | jakartaEL 3.0.3 | EPL 2.0 GPL2 w/ CPE | http://www.eclipse.org/legal/epl-2.0 https://www.gnu.org/software/classpath/license.html | https://github.com/jakartaee/expressions-language |
| 105 | jsr305 3.0.2 | Apache License Version 2.0 | http://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/findbugsproject/findbugs |

| | | | | |
|-----|-------------------------------|---|---|---|
| 106 | <i>javaDouble 1.3</i> | <i>Apache 2 License</i> | https://www.apache.org/licenses/LICENSE-2.0.txt | https://github.com/JavaMoney/jsr354-ri |
| 107 | <i>Jakarta Mail API 2.0.1</i> | <i>EPL 2.0</i> | http://www.eclipse.org/legal/epl-2.0 | https://mvnrepository.com/artifact/com.sun.mail/jakarta.mail/2.0.1 |
| 108 | <i>nginx 1.14.2</i> | <i>2-пунктная лицензия BSD</i> | https://nginx.org/LICENSE | https://trac.nginx.org/nginx/browser/nginx/?rev=7425%3Aebf8c9686b8c |
| 109 | <i>Apache Tomcat 8.5.54</i> | <i>Apache License, Version 2.0</i> | https://opensource.org/licenses/Apache-2.0 | https://archive.apache.org/dist/tomcat/tomcat-8/v8.5.54/ |
| 110 | <i>PHP</i> | <i>The PHP License, version 3.01</i> | https://www.php.net/licenses/e3_01.txt | https://github.com/php/php-src/tree/PHP-7.4.24 |
| 111 | <i>Openjdk 11.0.14</i> | <i>The GNU General Public License (GPL) Version 2</i> | https://openjdk.java.net/legal/gplv2+ce.html | https://github.com/openjdk/jdk/tree/jdk-11+14 |
| 112 | <i>rabbitMQ 3.6.6-1</i> | <i>Mozilla Public License Version 2.0</i> | https://www.rabbitmq.com/mpl.html | https://github.com/rabbitmq/rabbitmq-server/releases/tag/rabbitmq_v3_6_6 |
| 113 | <i>SoX v14.4.2</i> | <i>The GNU General Public License (GPL) Version 3</i> | http://www.gnu.org/licenses/gpl-3.0.html | https://github.com/jacksonh/sox |

| | | | | |
|---------|---------------------------|--|---|---|
| 11 4 | <i>Apache Kafka 3.1.0</i> | <i>The Apache License, Version 2.0</i> | http://www.apache.org/licenses/LICENSE-2.0.txt | https://mvnrepository.com/artifact/org.apache.kafka/kafka-clients/3.1.0 |
| 11 5 | <i>nodejs v14.18.3</i> | <i>MIT, ISC, BSD-2-Clause, BSD, Apache-2.0, Artistic-2.0, BSD-3-Clause</i> | https://github.com/nodejs/node/blob/master/LICENSE | https://nodejs.org/ko/blog/release/v14.18.3/ |

Правообладатель готов продемонстрировать работоспособность и функциональность , для чего просим связаться по контактам:

- **Номер телефона: 89209118191**
- **ФИО: Тихомирова Евгения Юрьевна**
- **Email. e.tikhomirova@voice-technology.ru**