The UCSF Mouse Inventory Database Application, an open source web app for sharing mutant mice within a research community

File S3 Mouse Database Application README

This README document is available on the develop branch of the Mouse Inventory repository in GitHub. https://github.com/musIndex/mouseinventory/tree/develop

Mouse Inventory Database

The mouse inventory database is an application for tracking an institution's inventory of mice for genetics research.

Features

See the home page   https://github.com/musIndex/mouseinventory/tree/master

Getting Started

The following instructions assume you're working on a Mac.

Installing Prequisites

There are four prequisites that are required to run MouseInventory.

- MariaDB
- Tomcat (version 9)
- Java (version 8)
- Maven (version 3)

The easiest way to install these is using brew, a package manager for the Mac.

Mac

```
git clone git@github.com:musIndex/mouseinventory.git
```

1. install tomcat with brew
2. update tomcat users
3. start tomcat with the following command

Developing

See the development notes wiki to learn about how to work with the code.

Environment Variables

Environment Variable	Description	Example
DB_DRIVER_CLASSNAME	Classname of the driver for the main database	`org.mariadb.jdbc.Driver`
DB_CONNECTION_STRING	Connection string for the main databse	`jdbc:mariadb://localhost:3306/mousespace?user=fakeUser&password=b4dp455w0rd`
MGI_DB_DRIVER_CLASSNAME	Classname of the driver for the MGI database.	`org.postgresql.Driver`

Environment Variable	Description	Example
MGI_DB_CONNECTION_STRING	Connection string for the MGI database	`jdbc:postgresql://mgi-adhoc.jax.org:5432/mgd?username=prodUser&password=an0th3rp444w0rd`
SMTP_SERVER	*optional* The URL of the SMTP server.	`smtp.server.com`
SMTP_USER	*optional* The username for connecting to SMTP server.	`james.bond@mi6.com`
SMTP_PW	*optional* The password for connecting to SMTP server.	`lic3nset0k1ll`
SMTP_PORT	*optional* The port used to connect to SMTP server..	`465`
SMTP_SSL_ENABLED	*optional* Whether or not to use encrypted SMTP (`true` or `false`)	`true`
GOOGLE_ANALYTICS_ACCOUNT	*optional* The account for Google Analytics.	`18988`
GOOGLE_ANALYTICS_DOMAIN_SUFFIX	*optional* The domain suffix used for Google Analytics.	`www.example.com`

Setting environment variables

There are a number of ways to set environment variables.

Command line (Mac/Linux)

Assuming you use the command line to start Tomcat, you can also set the enviroment variables directly on the command line.

```
export DB_DRIVER_CLASSNAME=org.mariadb.jdbc.Driver
export DB_CONNECTION_STRING="jdbc:mariadb://localhost:3306/mousespace?user=fakeUser&password=b4dp455w0rd"
export MGI_DB_DRIVER_CLASSNAME=org.postgresql.Driver
export MGI_DB_CONNECTION_STRING="jdbc:postgresql://mgi-adhoc.jax.org:5432/mgd?username=prodUser&password=an0th3rp444w0rd"
export SMTP_SERVER=""
export SMTP_USER=""
export SMTP_PW=""
export SMTP_PORT=430
export SMTP_SSL_ENABLED=True
export GOOGLE_ANALYTICS_ACCOUNT=""
export GOOGLE_ANALYTICS_DOMAIN_SUFFIX=""
catalina start
```

Adding to plist (Mac)

If you installed Tomcat using `brew` and you don't plan on using it for anything else, you can hardcode the environment variables directly into the `homebrew-mxcl.tomcat.plist` configuration file for Tomcat. Just edit file located in `/usr/local/Cellar/tomcat/<version>/` and add the following just before the closing `</dict></plist>` tags.

```
    <key>EnvironmentVariables</key>
    <dict>
      <key>DB_DRIVER_CLASSNAME</key>
      <string>org.mariadb.jdbc.Driver</string>
      <key>DB_CONNECTION_STRING</key>
      <string>jdbc:mariadb://localhost:3306/mousespace?user=mousedb&password=abc123</string>
      <key>MGI_DB_DRIVER_CLASSNAME</key>
      <string>org.postgresql.Driver</string>
      <key>MGI_CONNECTION_STRING</key>
      <string>jdbc:postgresql://mgi-adhoc.jax.org:5432/mgd?username=mousedb&password=abc123</string>
      <key>SMTP_SERVER</key>
      <string></string>
      <key>SMTP_USER</key>
      <string></string>
      <key>SMTP_PW</key>
      <string></string>
      <key>SMTP_PORT</key>
      <string>1</string>
      <key>SMTP_SSL_ENABLED</key>
      <string>1</string>
      <key>GOOGLE_ANALYTICS_ACCOUNT</key>
      <string></string>
      <key>GOOGLE_ANALYTICS_DOMAIN_SUFFIX</key>
      <string>True</string>
    </dict>
```

A sample `homebrew-mxcl.tomcat.plist` is included in the repo

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      <key>SMTP_SERVER</key>
      <string></string>
      <key>SMTP_USER</key>
      <string></string>
      <key>SMTP_PW</key>
      <string></string>
      <key>SMTP_PORT</key>
      <string>1</string>
      <key>SMTP_SSL_ENABLED</key>
      <string>1</string>
      <key>GOOGLE_ANALYTICS_ACCOUNT</key>
      <string></string>
      <key>GOOGLE_ANALYTICS_DOMAIN_SUFFIX</key>
      <string>True</string>
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