

Genome Center Ordering System

Objective

The Genome Center is adopting the Mouse Biology Program's "Core Service Billing System". This system will replace many features of the Genome Center's current billing system, but does not cover certain needs when it comes to managing core orders. Currently, the Genome Center Cores do not have a system for the detailed tracking of customer orders. Instead, cores rely on combinations of paper and unrelated electronic tools to provide service to customers. The objective of the Genome Center Ordering System is to provide the functionalities missing from the CSBS with regards to order submission, tracking, status updates, and data delivery.

Features

Account management

There will be a portion of the application where clients can manage their profile. That profile will include:

- Contact/Billing information
- User permissions (for other accounts under that PI)

Estimated time: 30 hours

Order tracking

- Track orders by PI
- Orders can have any number of associated charges
- Orders may split charges into multiple invoices
- Modifications to charges should be tracked

Estimated time: 50 hours

Order metadata/data

Orders can have various metadata/data added either manually, or programmatically through an API. These data can be attached at the level of the order, or at the charge level.

Permissions can be set by user or group. Types to include are:

- Order status
- Text notes (free text entered by order administrators)
- File attachments (for smaller files)
- URLs (May point to any resource, such as a data repository like Bioshare or Dropbox)
- Forwarded emails?

Estimated time: 60 hours

Order submission

Customers and administrators should be able to submit orders of various types. Order forms should not have to be hardcoded, and may correspond directly to certain itemized charges. Submission details are viewable by order.

Estimated time: 80 hours

Order search

Administrators should be able to search orders by PI, billing status, order status, charge type, etc.

Estimated time: 20 hours

Single Sign On

Whether part of UC Davis or another institution or business, customers and administrators should be able to log on using currently existing accounts where possible. This authentication system should be leveraged by other resources such as Bioshare or Core LIMS in order to support SSO and seamless transition between apps once signed in.

Estimated time: 30 hours

API

Integration with the CSBS and Core LIMS will be done using a web API. API calls will support:

- Submitting order estimates to CSBS
- Creating orders
- Creating order charges
- Attaching notes to orders/charges
- Attaching files to orders/charges
- Attaching URLs to orders/charges
- Setting order statuses
- Getting billing statuses
- Getting order submission details

Estimated time: 20 hours

Total estimated time: 290 hours