Campus Connect 2.0

SE352 - Object Oriented Enterprise Application Development

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Overview

This version of campus connect will have a simple way to register for classes, swap out the classes you're in, and drop classes.

Requirements

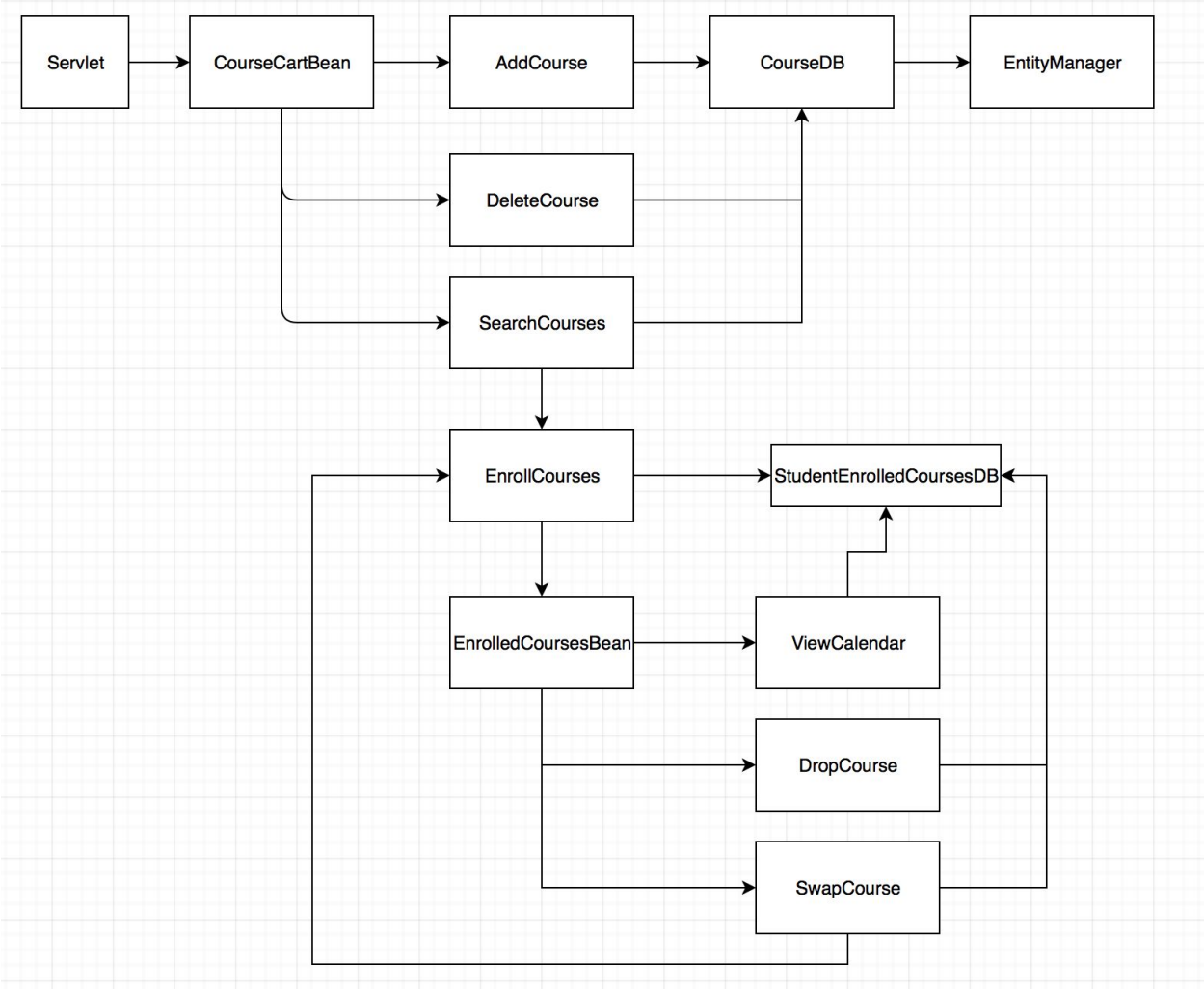
Use Cases

- Searching for classes to take.
- Adding classes to your course cart.
- Removing classes from your course cart.
- Enrolling in classes.
- Dropping classes.
- Swapping a class you're registered in for a class in your course cart.
- Seeing a calendar view of your classes.
- Seeing list of dropped classes.
- Calendar view of course cart classes.
- Create classes as an administrator
- Delete classes as admin.
- Edit Classes as admin.
- Remove students from enrolled classes
- View enrolled students

Description of Problem

The current campus connect is very bulky and hides key features. Campus Connect 2.0 will make it easy to enroll and handle coursework - one of it's most essential features.

Design



Web UI (Common case)

[See our wireframes here](#).

Table Layout

MLab Account: Username = campusConnectProject Password = ccp123

We've added MongoDB to our project for persistence through mlab. We will have at least 6 tables, but for now have just included one for show. Currently, we have implemented support to MongoDB for adding, deleting, and showing courses.

We will need a table to track students (1), a table to track available classes (2), a table to track which classes are in students' course carts (3), a table to track which courses have been completed (4), which classes have waitlists (5), and which classes they are actually enrolled in (6).

CoursesTable

courseID	instructorID	courseName	courseDesc	numEnrolled	maxStudents	termOffered

StudentsTable

stuID	fName	lName	gpa

EnrolledCourses

cID	stuID

PastCourses

cID	stuID	gpa	termTaken

CourseCartedCourses

cID	stuID

WaitlistedCourses

cID	stuID	position

Deployment

Coming soon!

How Design Meets the Requirements

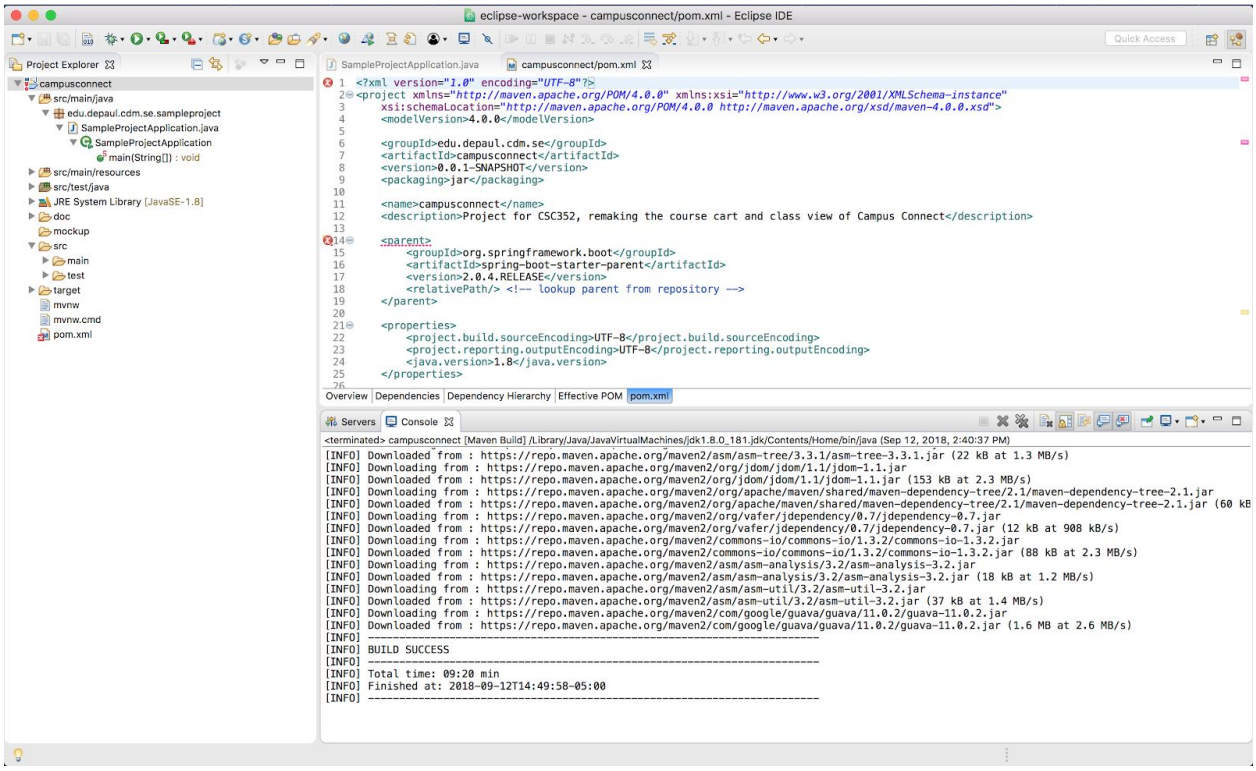
The requirements were to have 3 major functionalities, use a database, and Javascript and HTML - essentially a web UI. As we'd like to team up for this assignment, we have proposed 12-14 key functionalities to increase difficulty appropriately. We are planning to need some tables for the database component, but how many exactly will be determined as we move forward with design. Finally, this will be a web version of Campus Connect, so we'll be using HTML and Javascript for our Web UI.

Team Work Breakdown

Megan	Aaron	Artur
Searching for classes to take.	Enrolling in classes.	Create classes as an administrator.
Adding classes to your course cart.	Dropping classes.	Delete classes as admin.
Removing classes from your course cart.	Swapping a class you're registered in for a class in your course cart.	Edit Classes as admin.
Seeing a calendar view of your classes.	Seeing list of dropped classes.	Remove students from enrolled classes.
Calendar view of course cart classes.		View enrolled students.

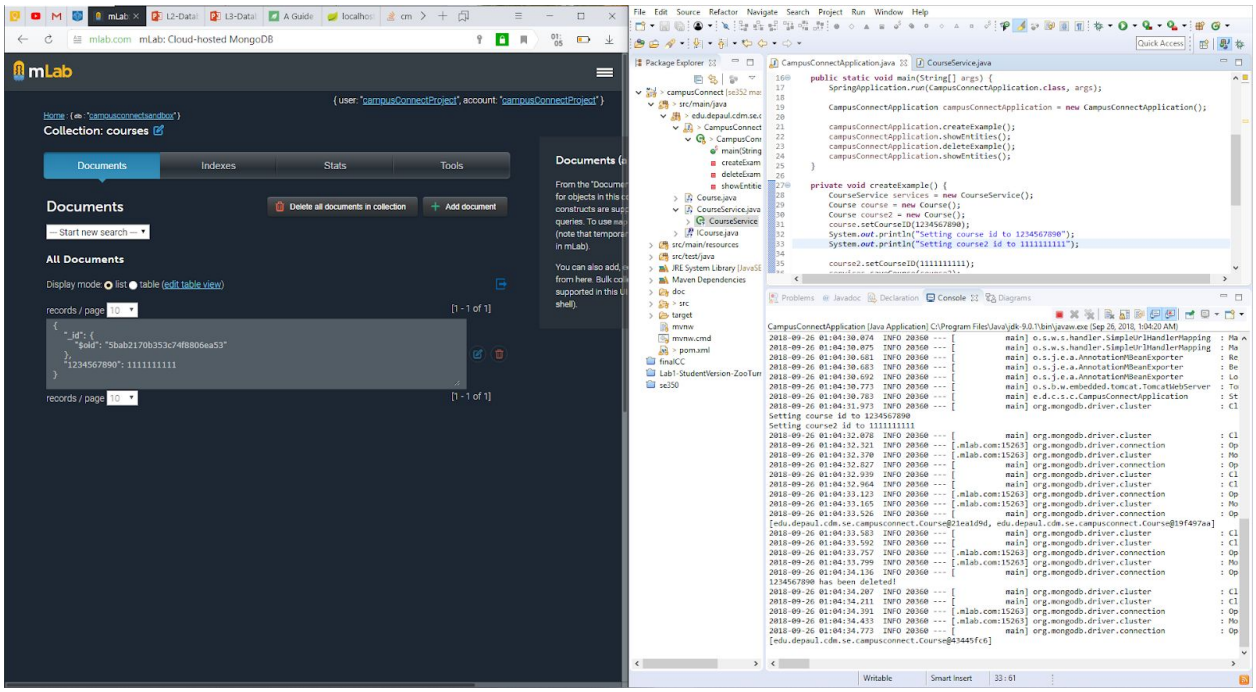
As a team, we have worked on many projects together over the last 2 years. If a team member is unable to deliver for whatever reason, we are able to cover some of the work for them. Since we know each other well, we know we won't have consistent delivery issues.

Milestone Screenshot - 1

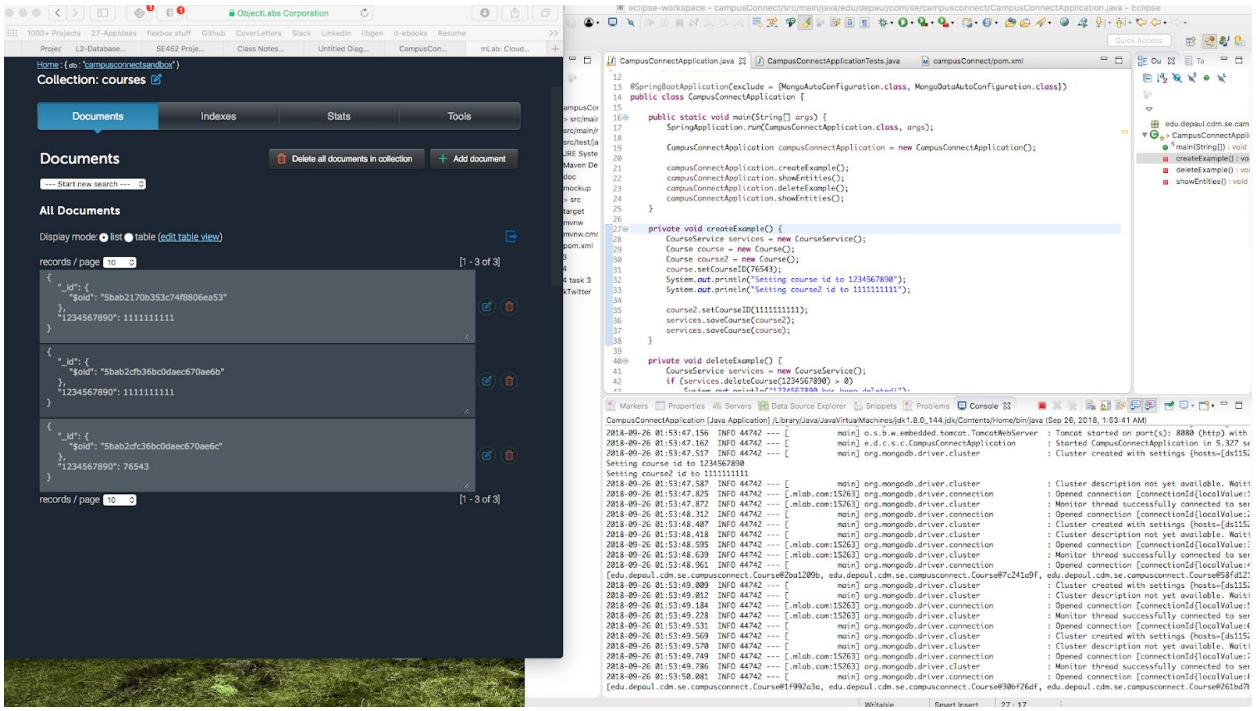


Milestone Screenshot - 2

(Aaron)


mLab
Collection: courses
Documents
Indexes
Stats
Tools
Delete all documents in collection
Add document
All Documents
"1234567890": 1111111111
"1234567890": 76543

(Artur)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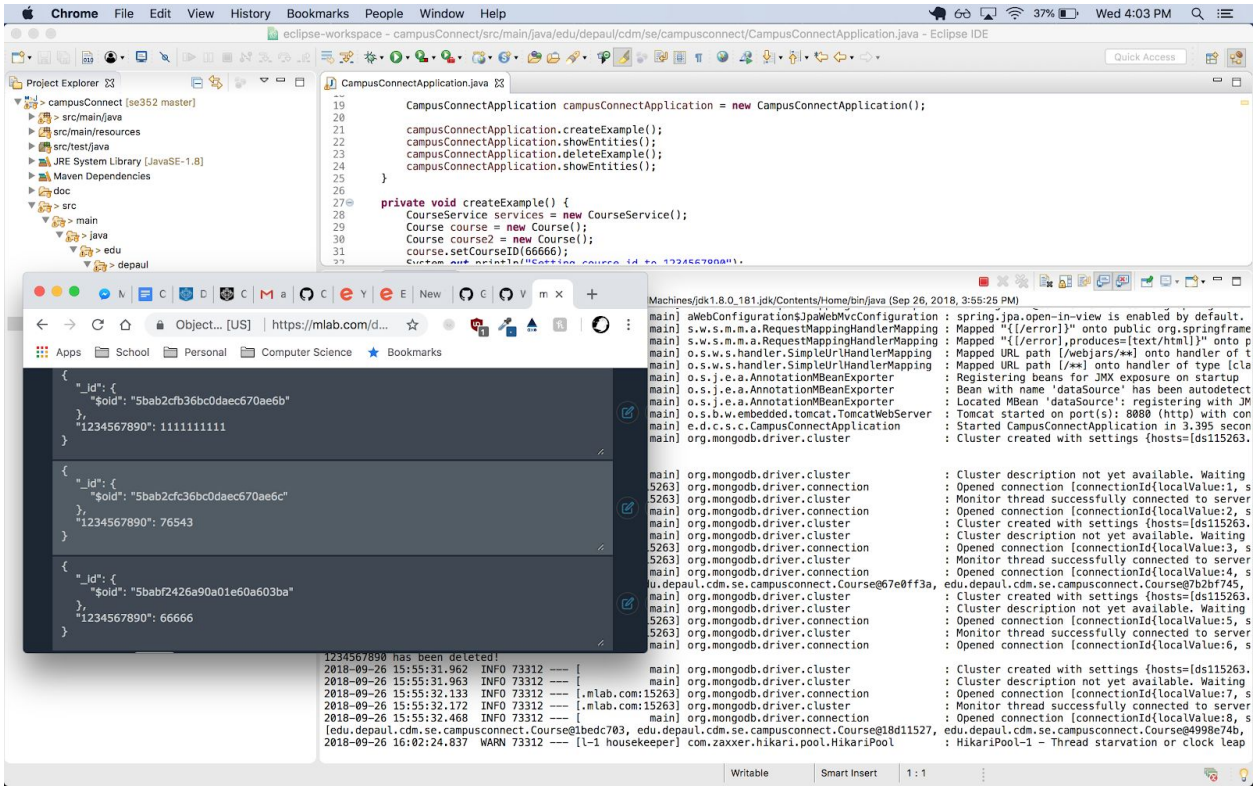
(Megan)


Chrome File Edit View History Bookmarks People Window Help
eclipse-workspace - campusConnect/src/main/java/edu/depaul/cdm/se/campusconnect/CampusConnectApplication.java - Eclipse IDE
Project Explorer
campusConnect [se352 master]
src/main/java
src/main/resources
src/test/java
JRE System Library [JavaSE-1.8]
Maven Dependencies
doc
src
main
java
edu
depaul
CampusConnectApplication.java
CampusConnectApplication campusConnectApplication = new CampusConnectApplication();
campusConnectApplication.createExample();
campusConnectApplication.showEntities();
campusConnectApplication.deleteExample();
campusConnectApplication.showEntities();
private void createExample() {
CourseService services = new CourseService();
Course course = new Course();
Course course2 = new Course();
course.setCourseID(66666);
Object... [US] https://mlab.com/d...
Apps School Personal Computer Science Bookmarks
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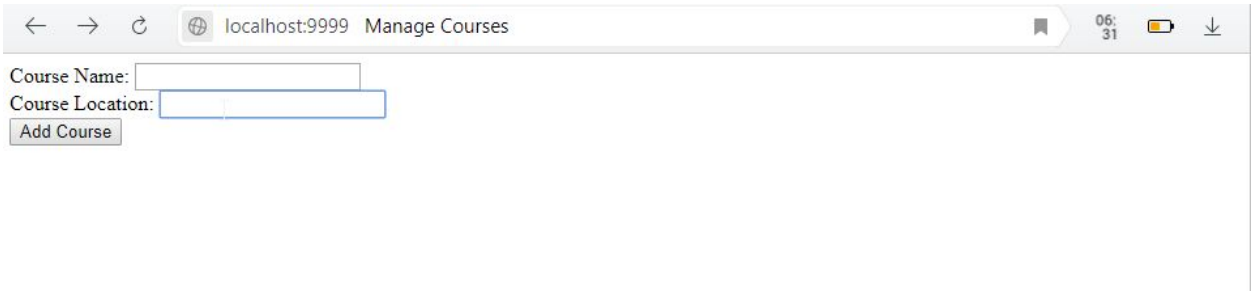
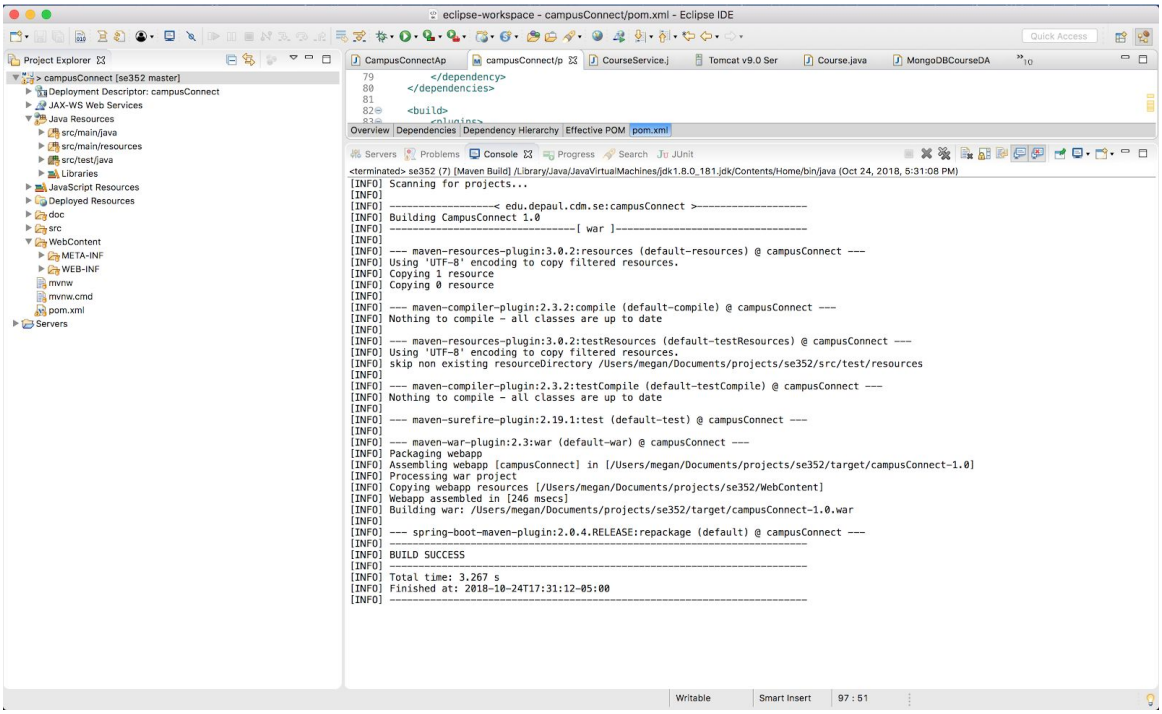
1234567890 has been deleted!
2018-09-26 15:55:31.962 INFO 73312 --- [main] org.mongodb.driver.cluster : Cluster created with settings {hosts=[ds115263.
2018-09-26 15:55:31.963 INFO 73312 --- [main] org.mongodb.driver.cluster : Cluster description not yet available. Waiting
2018-09-26 15:55:32.133 INFO 73312 --- [.mlab.com:15263] org.mongodb.driver.connection : Opened connection [connectionId{localValue:7, s
2018-09-26 15:55:32.172 INFO 73312 --- [.mlab.com:15263] org.mongodb.driver.cluster : Monitor thread successfully connected to server
2018-09-26 15:55:32.468 INFO 73312 --- [main] org.mongodb.driver.connection : Opened connection [connectionId{localValue:8, s
[edu.depaul.cdm.se.campusconnect.Course@1bedc703, edu.depaul.cdm.se.campusconnect.Course@18d11527, edu.depaul.cdm.se.campusconnect.Course@4998e74b,
2018-09-26 16:02:24.837 WARN 73312 --- [l-1 housekeeper] com.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Thread starvation or clock leap
Writable
Smart Insert
1 : 1

Milestone Screenshot - 3