

# Silver Console – Hospitality Business Portals and Automated Testing

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**Abstract—***Silver Console is a Software-As-a-Service (SaaS) based product which fetches data through timely batch jobs from various data sources for reporting purposes. Silver Console majorly focuses on the following: Sales reports across single or multiple stores, Easy to use with graphical dashboard and deep drill down capability, Stay informed with easy-to-use auto alerts and communication tools, Keep track of detailed sales trends in the form of intuitive graphs and charts and interactive drilldowns, all of which make the complex seem simple, See how your sales are doing against goal or past performance, for single or multiple sites, See sales mix information right down to the employees that are selling the items you want to push, Supports 4 different POS systems (14 deprecated): Aloha (Pulse RT), Silver / SPRE / Silver Essentials (SBO), CBS, Treatware. Supports 10000+ sites/stores and 8000+ brands/clients*

## I. INTRODUCTION

The hospitality business is one of the major business sectors. Every day there are new restaurants, fast-food chains, drive-throughs etc. being opened as the population and the demand to eat out increases. Businesses are becoming more and more consumer centric and with that a lot of data is generated by a business. Today we will look at how the product Silver Console provides various tools to collect and report data to satisfy reporting requirements at all levels of a given business/organization.

Existing systems provide services that concentrate on satisfying customer requirements only at a single level of the business structure. They provide reporting tools either at the employee level or the store level or at the corporate level of the business but not a complete

service that satisfies the business requirements at every level. Even if a service was provided to meet requirements at each business level, the services may not be very closely integrated and therefore may not work well in tandem with each other. However, with Silver Console this is not the case. We provide a closely knit service of 4 portals that take care of all the reporting requirements that an organization might have at all levels of the organization. These portals are interrelated to each other and work very closely to achieve concurrent reporting of large amounts of data to many clients. Silver Console also provides a very high level of customizability of what is being reported and how it is reported.

## II. LITERATURE SURVEY

.NET and .NET Framework<sup>[2]</sup>

.NET is a developer platform made up of tools, programming languages, and libraries for building many different types of applications. There are various implementations of .NET. Each implementation allows .NET code to execute in different places—Linux, macOS, Windows, iOS, Android, and many more.

.NET Framework is the original implementation of .NET. It supports running websites, services, desktop apps, and more on Windows. .NET is a cross-platform implementation for running websites, services, and console apps on Windows, Linux, and macOS. .NET is open source on GitHub. .NET was previously called .NET Core. Xamarin/Mono is a .NET implementation for running apps on all the major mobile operating systems, including iOS and Android. .NET Standard is a formal specification of the APIs that are common across .NET implementations. This allows the same code and libraries to run on different implementations.

C# [3]

C# (pronounced "See Sharp") is a modern, object-oriented, and type-safe programming language. C# enables developers to build many types of secure and robust applications that run in .NET. C# has its roots in the C family of languages and will be immediately familiar to C, C++, Java, and JavaScript programmers.

Java

Java is a general-purpose, class-based, object-oriented programming language designed for having lesser implementation dependencies. It is a computing platform for application development. Java is fast, secure, and reliable, therefore. It is widely used for developing Java applications in laptops, data centers, game consoles, scientific supercomputers, cell phones, etc.

Selenium [4]

Selenium is a free (open source) automated testing framework used to validate web applications across different browsers and platforms. You can use multiple programming languages like Java, C#, Python etc. to create Selenium Test Scripts. Testing done using the Selenium testing tool is usually referred to as Selenium Testing.

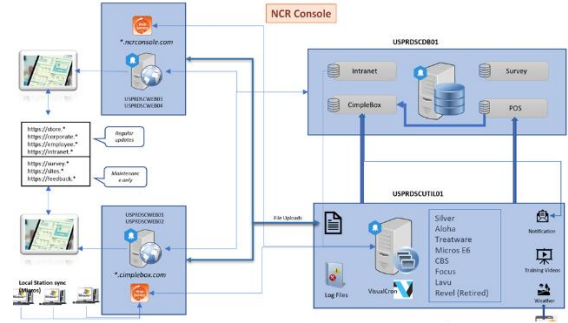
TestNG [5]

TestNG is an automation testing framework in which NG stands for "Next Generation". TestNG is inspired by JUnit which uses the annotations (@). TestNG overcomes the disadvantages of JUnit and is designed to make end-to-end testing easy.

GitHub Actions [6]

GitHub Actions is a continuous integration and continuous delivery (CI/CD) platform that allows you to automate your build, test, and deployment pipeline. You can create workflows that build and test every pull request to your repository or deploy merged pull requests to production.

III. NCR CONSOLE SYSTEM ARCHITECTURE



The main components of the architecture are Point Of Sale (POS) devices, databases and our main product-NCR console. Sales data is populated through POS devices. This data is then fetched by batch jobs and then loaded into two main databases which are the complexbox database and the POS database. From this raw sales data various sales reports, graphical dashboards, summary reports, sales trends, intuitive charts, and interactive drilldowns etc. are generated and are reported to the client through the store, corporate, employee, and intranet portals

IV. AUTOMATION SYSTEM IMPLEMENTATION

Silver Console has a separate sub-project for its automated testing. Automated testing for silver console is achieved using Selenium with Java along with various other frameworks like TestNG, Junit, log4j, Gradle for the purposes of test suite automation, result logging and build automation. All the project and test dependencies are mentioned in the build.gradle file which installs all the required dependencies and resources at run time and also sets up the environment for the test runs.

The test cases are categorized into smoke tests, regression tests and functional tests. As part of my internship, I have mostly worked on smoke tests and regression tests. The main framework used on top of selenium is TestNg. This framework makes building test suites much easier and also displays useful test run details that produce useful insights about why a test is not behaving as intended or why it is failing. It also allows us to use special methods that allow us to customize what runs before and after each test cases, method, and class. It provides grouping mechanisms which allows us to group testcases to later run them all

at the same time. It is also a very useful tool when it comes to generating reports of all the test runs and how many tests failed and how many passes. I have also used page objects to achieve higher level of abstraction and test reusability. The framework log4j is used to create logs of the tests that are run and these logs are then saved in a specified location

One other major component of our automation project is CI/CD integration using GitHub Actions. You can configure a GitHub Actions workflow to be triggered when an event occurs in your repository, such as a pull request being opened, or an issue being created. Your workflow contains one or more jobs which can run in sequential order or in parallel. Each job will run inside its own virtual machine runner, or inside a container,

and has one or more steps that either run a script that you define or run an action, which is a reusable extension that can simplify your workflow. I have used GitHub actions workflows to make it so that the test suite (specified group of testcases) can be triggered remotely using a curl command<sup>[7]</sup>. These tests, when triggered, are run on a virtual machine called GitHub runner. This runner can be configured in various ways such as its operating system, the versions of different software, etc. Using the workflow file and GitHub runners I have also implemented an automated slack channel test reporting system which automatically generates an emailable test report and sends it to a slack channel of our choice

```

regression.prop QuickBooksOnline BaseDriverComm StoreTests.java DownloadProduct SalesTarget.jav WasteAndSample
1 package console.intranet.admin;
2
3 import org.openqa.selenium.support.PageFactory;[]
Run All
18 public class StoreTests extends BaseDriverTesting{
19     private String user;
20     private String password;
21     private String url;
22     @BeforeClass(alwaysRun=true)
23     public void classSetup(){
24         setMyBrowser(getProperty("myBrowser"));
25         setRunLocal(!!Boolean.valueOf(getProperty("runLocal")));
26         saveSiteURL(getProperty("intraneturl"));
27         url=getProperty("storeportalurl");
28         user = getProperty("intranetuserName");
29         password = getProperty("intranetpassword");
30     }
31
32
33     @Test(groups= {"intranetTest"})
Run | Debug
34 public void loginToTheStore() throws InterruptedException{
35     IntranetLoginPage iop = PageFactory.initElements(getDriver(), IntranetLoginPage.class);
36     IntranetPage ip= PageFactory.initElements(getDriver(), IntranetPage.class);
37     DashboardPage dbp= PageFactory.initElements(getDriver(), DashboardPage.class);
38
39     iop.loginWithCredentials(user, password);
40     getDriver().switchTo().frame("icpnavframe");
41     ip.enterStore("autosite");
42     getDriver().switchTo().defaultContent();
43     getDriver().switchTo().frame("icpmainframe");
44     ip.clickStoreName("autosite");
45     ip.selectUserAndLogin("autotest");
46     iop.switchToNextTab();
47     Assert.assertTrue(dbp.verifyStoreSelectionIsDisplayed(),"User isn't logged into the store successfully via intranet");
48 }
49
50     @Test(groups= {"intranetTest"})
Run | Debug
51 public void editStoreUsersPassword() throws InterruptedException{
52     IntranetLoginPage iop = PageFactory.initElements(getDriver(), IntranetLoginPage.class);
53     IntranetPage ip= PageFactory.initElements(getDriver(), IntranetPage.class);
54     DashboardPage dbp= PageFactory.initElements(getDriver(), DashboardPage.class);
55     StoreLogin sl= PageFactory.initElements(getDriver(), StoreLogin.class);
56     BaseModel baseModel= PageFactory.initElements(getDriver(), BaseModel.class);
57
58     String newPassword=ip.GetLetters(9);
59     iop.loginWithCredentials(user, password);
60     getDriver().switchTo().frame("icpnavframe");
61     ip.enterStore("autosite");
62     getDriver().switchTo().defaultContent();
63     getDriver().switchTo().frame("icpmainframe");
64     ip.clickStoreName("autosite");
65     ip.updateUsersPassword("usertest",newPassword);
66     getDriver().navigate().to(url);
67     sl.loginToStore("usertest", newPassword);
68     baseModel.MakeThreadSleep(2000);
69     Assert.assertTrue(dbp.verifyStoreSelectionIsDisplayed(),"User isn't logged into the store successfully via intranet");
70 }
71
72     @Test(groups= {"intranetTest"})
Run | Debug
73 public void editStoreusername() throws InterruptedException{
74     IntranetLoginPage iop = PageFactory.initElements(getDriver(), IntranetLoginPage.class);
75     IntranetPage ip= PageFactory.initElements(getDriver(), IntranetPage.class);
76     DashboardPage dbp= PageFactory.initElements(getDriver(), DashboardPage.class);
77     StoreLogin sl= PageFactory.initElements(getDriver(), StoreLogin.class);

```

```

package console.model;
import java.io.File;[]
/**
 * This class consists of stabilized selenium methods and the reusable methods to avoid code duplication
 */
public class BaseModel {
    final WebDriver driver;
    final WebDriverWait wait;
    protected final Logger log = LoggerFactory.getLogger(getClass());
    public static final int TIMEOUTDRIVER = 30;
    public static final int TIMEOUTDRIVERSHORT = 5;

    public BaseModel(WebDriver driver) {
        this.driver = driver;
        this.wait = new WebDriverWait(this.driver, TIMEOUTDRIVER);
    }

    public boolean checkElementExists(WebElement element) {
        try{
            getWebElementText(element);
            return true;
        }catch (Exception e){
            return false;
        }
    }

    public WebDriver getDriver(){
        return driver;
    }

    public WebDriverWait getwait(){
        return wait;
    }

    public void MakeThreadSleep(int timeout){
        try{
            Thread.sleep(timeout);
        }catch(Exception e){
            e.printStackTrace();
        }
    }

    public void SetDriverImplicitWait(int waitInSec){[]
        getDriver().manage().timeouts().implicitlyWait(waitInSec, TimeUnit.SECONDS);
    }

    public void clickWebElement(WebElement element){
        ((JavascriptExecutor) getDriver()).executeScript("arguments[0].click();", element);
    }

    private void clickWebElementAction(WebElement element) throws StaleElementReferenceException, NoSuchElementException, TimeoutException, WebDriverExcept
        Actions action = new Actions(getDriver());
        action.moveToElement(element).build().perform();
        getwait().until(ExpectedConditions.elementToBeClickable(element)).click();
    }

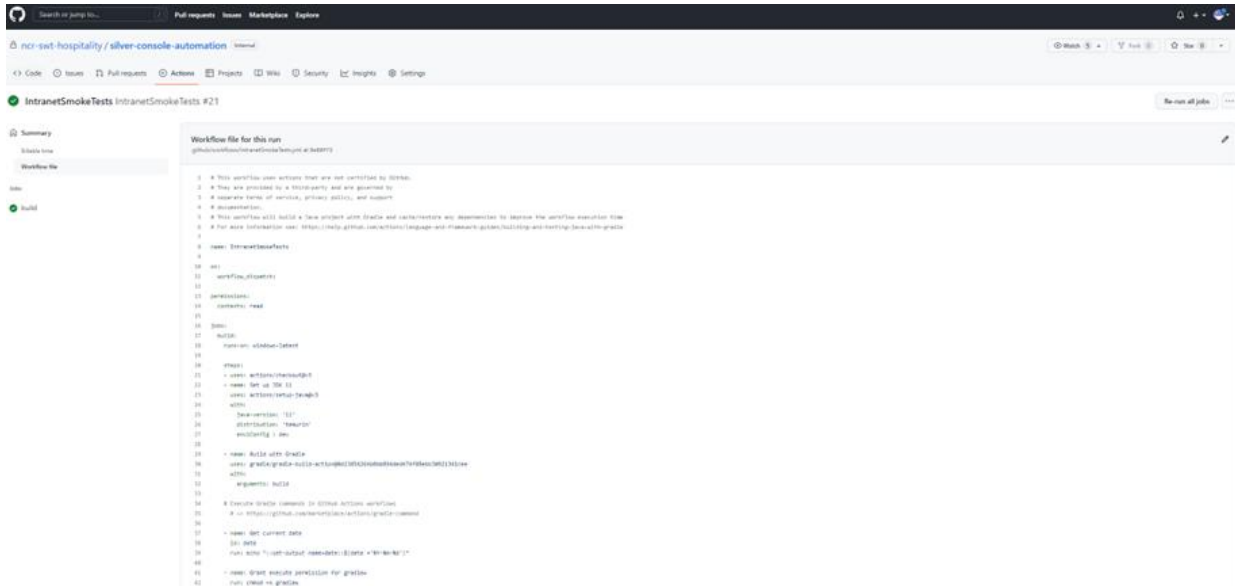
    public void clickWebElement(WebElement element) {
        try {
            clickWebElementAction(element);
        } catch (Exception WebDriverException) {
            clickWebElement(element);
        }
    }

    public void uploadFile(WebElement element, String filePath) {

```

Figures: Test case automation using Selenium, Java, TestNG and Gradle

I have used Selenium and Java along with other frameworks like TestNG, Gradle, log4j to automate testcases and to produce reports



397 workflow runs	Event	Status	Branch	Actor
IntranetSmokeTests IntranetSmokeTests #21: Manually run by bm185242		Success	11 days ago	7m 28s
IntranetSmokeTests IntranetSmokeTests #19: Manually run by bm185242		Success	11 days ago	10m 9s
IntranetSmokeTests IntranetSmokeTests #18: Manually run by sn185240		Success	11 days ago	9m 17s
IntranetSmokeTests IntranetSmokeTests #16: Manually run by sn185240		Success	11 days ago	8m 11s

**GithubActions-AutomationTesting** WORKFLOW 6:00 PM

**Automated Testing Alert** for Product - **TESTING PRODUCT**:

TESTING PRODUCT testing completed with status **success**. Please download the zip file attached below to view detail result.

**Github Actions** APP 6:00 PM

Zip

**TestResults.2022-06-02.19**  
Zip

Figures: CI/CD integration using GitHub actions

I have used GitHub actions to implement CI/CD pipeline for the automation project and also to automate the sending of reports to slack channel after test suite run

V. PRODUCT SHOWCASE

Store Portal

Dashboard
Store
Reports
Resources

Store: SPRE\_0008
Search | Chat | Help | Shortcuts | Settings | Log Out

Dashboard
Filter by Store: All Stores | Change |

#### Alerts

Message	Date
Unrecognized Clock-In Employee from POS	1/8/2021
QuickBooks Desktop Report for production_test - 12/1/2020	12/3/2020
QuickBooks Desktop Report for production_test - 12/1/2020	12/3/2020
QuickBooks Desktop Report for production_test - 12/1/2020	12/3/2020
QuickBooks Desktop Report for production_test - 12/1/2020	12/3/2020
QuickBooks Desktop Report for production_test - 12/1/2020	12/3/2020
QuickBooks Desktop Report for production_test - 12/1/2020	12/3/2020
QuickBooks Desktop Report for SPRE_0003 - 12/1/2020	12/3/2020
QuickBooks Desktop Report for SPRE_0003 - 12/1/2020	12/3/2020

View All

#### Links

Monthly Progress

View All Stores

#### Compare

##### Sales By Day

	Today	Prev Week	Prev Year
Sales	\$49	\$7,413	\$0
Checks	5	304	0
Average Check	\$9.87	\$19.30	N/A
Guests	2.00	383.00	0.00

Previous Day

##### Sales By Week

	Curr WTD	Prev WTD	Prev Yr WTD
Sales	\$42,791	\$45,220	\$0
Checks	1,968	2,508	0
Average Check	\$21.74	\$18.03	N/A
Guests	1,961.00	2,408.00	0.00

#### Weather Forecast

##### Test11

Today (1/8)	Tomorrow (1/9)	Sun (1/10)
40° 25°	44° 21°	49° 27°

##### Rodrigo Test Store

Today (1/8)	Tomorrow (1/9)	Sun (1/10)
40° 31°	48° 29°	51° 37°

##### production\_test

##### test\_uk\_store

##### SPRE-0001

Today (1/8)	Tomorrow (1/9)	Sun (1/10)
49° 33°	51° 35°	44° 34°

#### Current Sales Performance

	Jan Sales	Target	Jan 2020 MTD
production_test	\$0	N/A	N/A
Rodrigo Test Store	\$0	N/A	N/A
SPRE_0003	\$23,349	N/A	N/A
SPRE_0008	\$22,534	N/A	N/A
SPRE-0001	\$0	N/A	N/A
SPRE-0002	\$13,640	N/A	N/A
test_uk_store	\$0	N/A	N/A
<b>Total:</b>	<b>\$59,523</b>	<b>N/A</b>	<b>\$0</b>

##### 1/1/2020 - 12/31/2020

	Sales (\$)
production_test	N/A
Rodrigo Test Store	\$8,743
SPRE_0003	\$324,151
SPRE_0008	\$283,888
SPRE-0001	\$24,965
SPRE-0002	\$86,706
test_uk_store	N/A
<b>Total:</b>	<b>\$728,463</b>

#### Sales Forecast

Basis	Year Sales	Week Sales
4 Weeks	\$2,703,127	\$51,983
8 Weeks	\$2,535,691	\$48,763
52 Weeks	\$745,186	\$14,330

#### Labor Performance

	Today's Labor %	Target	Difference
production_test	0.0%	N/A	N/A
Rodrigo Test Store	0.0%	N/A	N/A
SPRE_0003	0.0%	N/A	N/A
SPRE_0008	199.8%	N/A	N/A
SPRE-0001	0.0%	N/A	N/A
SPRE-0002	0.0%	N/A	N/A
test_uk_store	0.0%	N/A	N/A
Test11	0.0%	N/A	N/A












Dashboard | Store | **Reports** | Resources


Store: **Imagination** | Search | Chat | Help | Shortcuts | Settings | Log Out

---

**Inventory Reports** Go Back

 <p><b>Inventory History</b> View detailed history of each inventory item going in and out of your store</p>	 <p><b>Inventory Movement</b> View items that were depleted from your inventory based on your products sold</p>
 <p><b>Profitability Report</b> Analyze profitability of each of your products sold based on its Cost of Goods Sold</p>	 <p><b>Discrepancy Report</b> View discrepancies between your actual and theoretical inventories for any given period of time</p>
 <p><b>Spending Report</b> View a report of spending on your inventory categories and items</p>	 <p><b>Cost of Goods Sold</b> Calculate Cost of Goods Sold based on the movement of your inventory</p>
 <p><b>Inventory On Hand</b> View an on hand report based on your inventory movement</p>	 <p><b>Waste and Sample Report</b> Run a report of the amount of inventory items you are wasting or giving out as samples</p>
 <p><b>Control Log</b> View a daily activity log that generates totals for expected versus physical inventory</p>	

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Corporate Portal

Dashboard

**Current Week**  
Network : 387 Locations

	Current Week	Previous Week
Sales	\$1,398,519	\$2,455,332
Checks	131,381	246,039
Average Check	\$10.12	\$9.51
Guests	131,381.00	246,039.00
Cookie Cake Sales %	32.4%	27.5%
Multi Reg Cookie Sales %	63.8%	61.8%

**Search for a Store**

Find Store

**Messages Sent to Stores**

Subject	Date
CimpleBox System	4/24/2014

[View All](#)

**Operational Assessment Submissions**

Month	Total	
Jan 2021	0	<a href="#">Breakdown</a>
Dec 2020	0	<a href="#">Breakdown</a>
Nov 2020	0	<a href="#">Breakdown</a>
Oct 2020	0	<a href="#">Breakdown</a>
Sept 2020	0	<a href="#">Breakdown</a>
Aug 2020	0	<a href="#">Breakdown</a>

**Customer Feedback**

Month	Total
Jan 2021	0
Dec 2020	0
Nov 2020	0
Oct 2020	0
Sept 2020	0
Aug 2020	0

Store



**Review**  
Submit a review form for a store location



**Communication Center**  
Send and track communication to store locations



**Sales Target**  
Set sales targets for each location and monitor them against real sales data



**Documents**  
Distribute and share documents with all the store locations



**Training**  
View all training material and certification tests available to the stores



**Product Cost**  
Set the product prices ordered by franchisees



**POS**  
Manage POS at store locations

Employee Portal



Home Schedule Training

Employee Portal Welcome, **Natasha** | [Settings](#) | [Log Out](#)

**Alert**

Messages	Date
Availability Request Decision	6/8/2017
Request to Cover Shift Update	6/26/2017
Request to Cover Shift Decision	6/26/2017
Request to Cover Shift	6/27/2017
Request to Cover Shift Decision	6/27/2017
Availability Request Decision	10/19/2018
Availability Request Decision	1/25/2019
Availability Request Decision	7/23/2019

**Upcoming Schedule**

[View full schedule](#) ▶▶

**Contact**

Contact Manager

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Home Schedule Training

Employee Portal Welcome, **Donna** | [Settings](#) | [Log Out](#)

**Availability: F039 - Thorndale, PA** [Go Back](#)

1/4/2021 - 1/10/2021

1/4 Mon	1/5 Tue	1/6 Wed	1/7 Thu	1/8 Fri	1/9 Sat	1/10 Sun
Click to edit	Click to edit	Click to edit	Click to edit	Click to edit	Click to edit	Click to edit

Status: **Not Submitted**

[Add note for this week](#)

Submit for Approval Go Back

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Intranet Portal

Currently logged in: **Shashank Mehta**

By Searching 'Near' By: **User**

Brand	Active	Client Name	Site Name	Site Code	Address	Client ID	Site ID
Coca Cola	Open	0504	Coca Franchise #0004 Memphis Tenn	0504	1200 E. Green St. Memphis, TN	0344	17644
Coca Cola	Open	0507	Coca Franchise #0007 Columbia Tenn	0507	120 W. Henderson St. Columbia, TN	0338	17638
Coca Cola	Open	0507	Coca Franchise #0007 Arlington Cooper	0507	2415 S. Cooper St. Arlington, TN	0338	12007
Coca Cola	Open	0507	Coca Franchise #0007 Dandridge Tenn	0507	2000 Landon Dr. Dandridge, TN	0338	12016
Coca Cola	Open	0507	Coca Franchise #0007 Junction City Tenn	0507	441 E. S. Brantley. Junction, TN	0338	12006
Coca Cola	Open	0512	Coca Franchise #0012 Grand Prairie	0512	720 W. Pioneer Pkwy. Grand Prairie, TN	0347	10022
Coca Cola	Open	0512	Coca Franchise #0012 Denton Loop 280	0512	2210 S. Loop 280. Denton, TN	0347	11047
Coca Cola	Open	0512	Coca Franchise #0012 Full Mouth Colliery	0512	6224 Colliery St. Vicksburg Tenn	0347	11044
Coca Cola	Open	0512	Coca Franchise #0012 Full Mouth	0512	6019 Forest Hill Dr. Ste. 70. Full Mouth, TN	0347	10027
Coca Cola	Open	0512	Coca Franchise #0012 Burton	0512	108 NE. Wynona Blvd. Burton, TN	0347	10028
Coca Cola	Open	0512	Coca Franchise #0012 Lake Mouth	0512	6142 Lake Mouth Blvd. Lake Mouth, TN	0347	11049
Coca Cola	Open	0512	Coca Franchise #0012 Full Mouth Camp Banks	0512	6000 Camp Banks Blvd. Full Mouth, TN	0347	11050
Coca Cola	Open	0512	Coca Franchise #0012 Arlington	0512	2256 SE Green Oaks Blvd. Arlington, TN	0347	11052
Coca Cola	Open	0512	Coca Franchise #0012 Lenoirville Tenn	0512	600 N. Beach St. Full Mouth, TN	0347	12086
Coca Cola	Open	0512	Coca Franchise #0012 Rogers Tuguen	0512	140 N. Rogers Blvd. Rogers, TN	0347	11045
Coca Cola	Open	0512	Coca Franchise #0012 Seacrest FM 51	0512	1100 E. FM 51. Enclave, TN	0347	12087
Coca Cola	Open	0512	Coca Franchise #0012 Full Mouth	0512	6001 S. Lenoir Dr. Ste. 400. Irving, TN	0347	8900
Coca Cola	Open	0512	Coca Franchise #0012 Full Mouth	0512	1 East Mouth, TN	0347	10032
Coca Cola	Open	0512	Coca Franchise #0511 Arlington	0511	2005 E. Arkansas Ln. Ste. 140. Arlington, TN	0347	10036
Coca Cola	Open	0515	Coca Franchise #0015 Lenoirville Tenn	0515	724 W. Main St. Lenoirville, TN	0374	11095
Coca Cola	Open	0519	Coca Franchise #0019 Bedford Tenn	0519	2101 Memorial Bld. Bldg 11. Bedford, TN	0342	11042
Coca Cola	Open	0519	Coca Franchise #0019 Mount Pleasant Tenn	0519	6102 Phairwood Lane Rd. Mount, TN	0342	11074
Coca Cola	Open	0519	Coca Cola #0019 Full Mouth	0519	3401 Arkansas Blvd. Ste. 100. Full Mouth, TN	1412	10029
Coca Cola	Open	0519	Coca #0019 Irving Tenn	0519	2100 S. Bell Line Rd. Irving, TN	0342	11048
Coca Cola	Open	0505	Coca Franchise #0005 Coppen Denton Tenn	0505	120 S. Denton Tap Rd. Coppen, TN	0375	11036
Coca Cola	Open	0505	Coca Franchise #0005 Cantonage Hwy 31	0505	2731 W. Hwy 31. Cantonage, TN	0349	11096
Coca Cola	Open	0505	Coca Franchise #0005 Cantonage Tenn	0505	800 W. 7th Ave. Cantonage, TN	0349	11098
Coca Cola	Open	0507	Coca Franchise #0007 Vicksburg Tenn	0507	1440 N. Highway 77. Vicksburg, TN	0376	11007
Coca Cola	Open	0507	ca7001	ca7001	Dallas, Texas, Texas	0376	14100
Coca Cola	Open	0507	ca7002	ca7002	Dallas, Texas, Texas	0376	14100
Coca Cola	Open	0507	ca7003	ca7003	Dallas, Texas, Texas	0376	14101
Coca Cola	Open	0507	ca7004	ca7004	Dallas, Texas, Texas	0376	14105
Coca Cola	Open	0507	ca7005	ca7005	Dallas, Texas, Texas	0376	14106
Coca Cola	Open	0507	ca7006	ca7006	Dallas, Texas, Texas	0376	14108
Coca Cola	Open	0519	Coca Franchise #0019 Greenville Tenn	0519	2000 Shreve St. Greenville, TN	0341	11040
Coca Cola	Open	0504	Coca Franchise #0004 Dallas	0504	6004 Holman St. Dallas, TN	0302	11034
Coca Cola	Open	0504	Coca Franchise #0004 Garland	0504	1017 Northwood Pkwy. Garland, TN	0302	11035
Coca Cola	Open	0504	Coca Franchise #0004 Dallas	0504	1000 Harwood Blvd. Dallas, TN	0302	11032

1 2 3 4 5 6

Active: **AKT01-01** (Client ID: 6467) | Client Type:

Show (# Locations)

**AKT01-01: Alton's Kitchen & Cocktails (Alton's Kitchen & Cocktails)**

**AKT01-02: Table 21 (Alton's Kitchen & Cocktails)**

Complete Status: 19323  
 Complete SiteName: Table 21 [ edit ]  
 Complete SiteStatus: Active [ change ]  
 Survey Status: 19348  
 Survey SiteName: Table 21 [ edit ]  
 Survey SiteCode: AKT01-02  
 Survey SiteStatus: [ edit ]  
 Survey SiteActive: Open [ change ]  
 Survey SiteCode: [ edit ]  
 Survey SiteSurvey: 0 [ edit ]  
 Survey SiteSurveyCode: AKT01  
 Complete Address: 133 Hutton Landing Dr. Ste. 103, Mooresville, NC 28117  
 Survey Site Code: [ edit ]  
 Business Start Date: 11/20/19 [ edit ]  
 Co Brand: None [ complete ]  
 Download Inventory: No [ edit ]  
 API Information: Alaska  
 Last successful API request: 6/13/2022 3:52 PM Pacific Time  
 POS Type: Alaska  
 Survey Method Code: None  
 TSM Status: None

**AKT01-03: The Hidden Bar (The Hidden Bar)**

ex\_alb\_hnd\_ex\_alb\_hnd (Alton's Kitchen & Cocktails)

Users

Name	Email	Username	Password	[ Edit ]	[ Delete ]	[ Log In ]
alton user		altonuser@gmail.com		[ Edit ]	[ Delete ]	[ Log In ]
test table 21	table21@gmail.com	table21@gmail.com		[ Edit ]	[ Delete ]	[ Log In ]

New Admin Users [ Open/Close ]

## VI. CONCLUSION

Moving forward there is only growth to be seen in the hospitality sector. As the customer data increases so does the need for reporting tools such as Silver Console. Trends suggest that people are more willing than ever to pay for services such as hospitality and entertainment, therefore using reporting services such as silver console will allow clients to capitalize on this increasing demand and to maximize the financial returns.

For future releases we plan to work on the front end and UI to make the portals more user friendly in general.

## VII. REFERENCES

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