

ZEIT3120 Project 2 - Glitch Tracking – User Manual

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1. Introduction

1.1 Background

Glitch Tracking is a new startup aiming to offer a one-size-fits-all, highly modular and versatile solution for inventory tracking. The company operates under a software as a service model and aims to provide ongoing support to its clients.

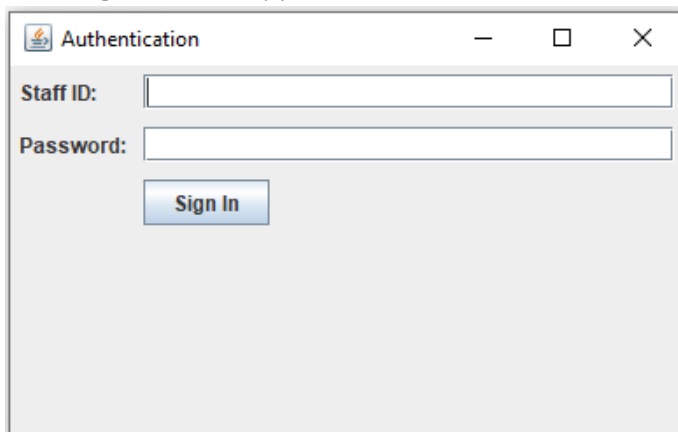
1.2 Intended Use

The Inventory Tracking Application (ITA) is intended to be used for the purpose of tracking inventory through the use of RFID technology. The application provides user authentication by allowing users to sign into the system. Once signed in, users will then be able to view and search through inventory information, which includes items, stores, quantities, summaries, and suppliers. In addition to this, users will be able to scan items in and out of the database using RFID technology to keep track of the stock levels in each store.

2. Instructions

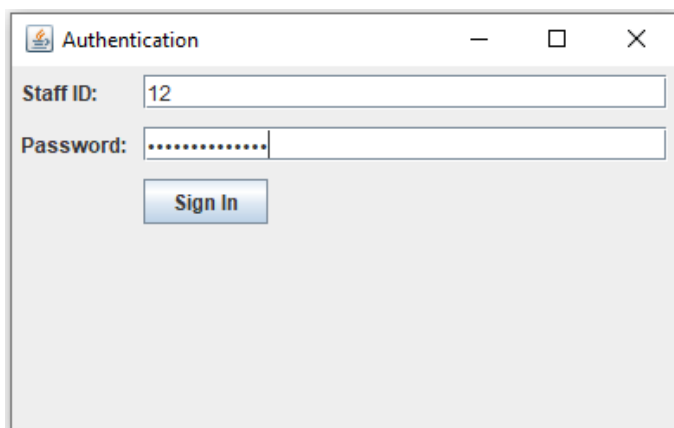
2.1 Login Window

2.1.1 Sign into the Application



A screenshot of a software window titled "Authentication". It contains two input fields: "Staff ID:" and "Password:". Below the "Password:" field is a blue button labeled "Sign In". The window has standard Windows-style controls (minimize, maximize, close) in the top right corner.

The login window is the first window the user will see when launching the application. Here they will be prompted to enter their staff id and associated password.



A screenshot of the same "Authentication" window, but now with data entered. The "Staff ID:" field contains the number "12". The "Password:" field is filled with ten dots, indicating a masked password. The "Sign In" button remains visible below the fields.

They can do this by entering their assigned staff ID in the top field followed by their assigned password in the bottom field. Once completed users can either hit enter or the sign in button to progress to the Inventory window.

2.1.2 Exiting the Application



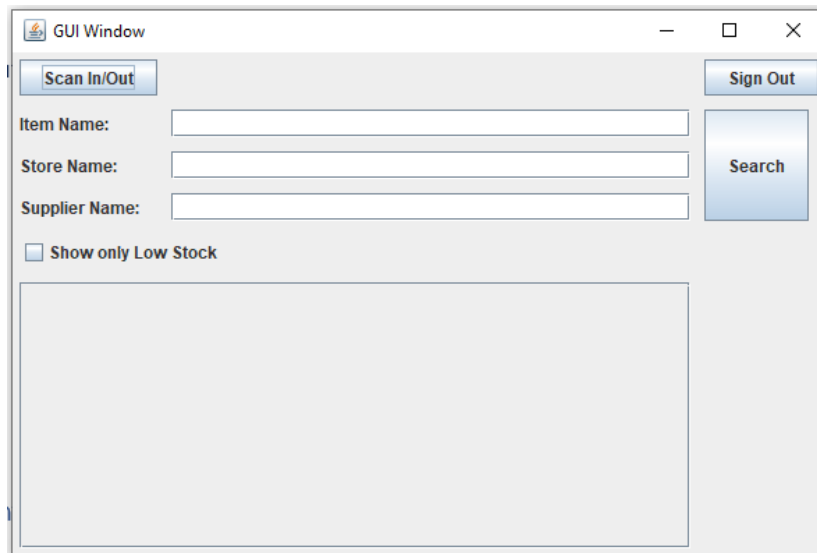
To exit the application users can click on the red X that is present in top right corner.

2.1.3 Solutions

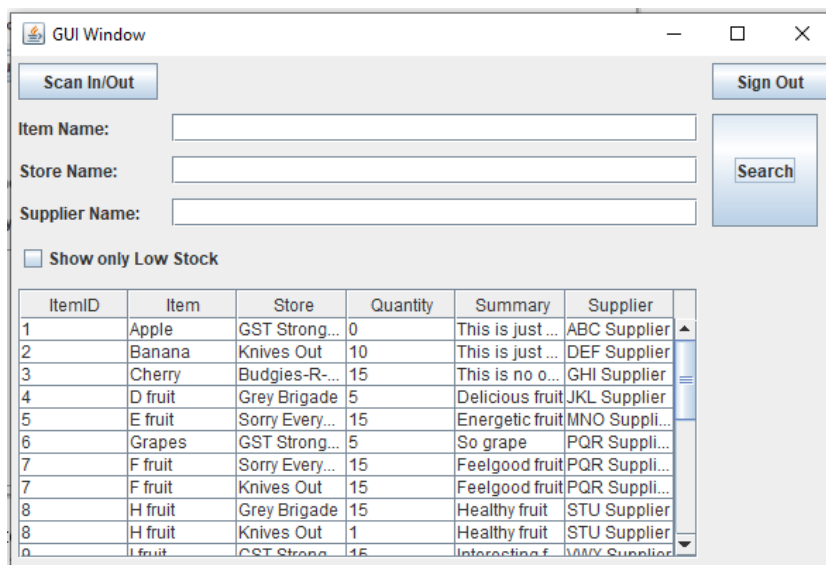
1. If the user is unable to login with the inputted credentials it is important to ensure that they are using a valid staff ID.
2. If the staff ID is valid and issues continue to persist, make sure that the inputted password conforms with our standards to see if a mistake has occurred somewhere.
 - a. All passwords within our system must be a minimum of 12 characters long.
 - b. All passwords must consist of at least one of each of the following:
 - i. Upper-case letter
 - ii. Lower-case letter
 - iii. Number
 - iv. Special character
3. If any issues persist feel free to contact the Glitch Tracking team and we will be happy to help sort out whatever your problem may be.

2.2 Inventory Window

2.2.1 Populating the Table



To populate the table, all users need to do is press the large search button on the right side of the screen. Doing so will cause the table to load all information that is contained within the database.



ItemID	Item	Store	Quantity	Summary	Supplier
1	Apple	GST Strong...	0	This is just ...	ABC Supplier
2	Banana	Knives Out	10	This is just ...	DEF Supplier
3	Cherry	Budgies-R...	15	This is no o...	GHI Supplier
4	D fruit	Grey Brigade	5	Delicious fruit	JKL Supplier
5	E fruit	Sorry Every...	15	Energetic fruit	MNO Suppli...
6	Grapes	GST Strong...	5	So grape	PQR Suppli...
7	F fruit	Sorry Every...	15	Feelgood fruit	PQR Suppli...
7	F fruit	Knives Out	15	Feelgood fruit	PQR Suppli...
8	H fruit	Grey Brigade	15	Healthy fruit	STU Supplier
8	H fruit	Knives Out	1	Healthy fruit	STU Supplier
9	I fruit	GST Strong...	15	Interesting f...	VWX Supplier

2.2.2 Navigating the Table

To navigate the table users are able to use the scroll bar on the right side of the table to view the information that does not fit on the page.



8	H fruit	Knives Out	1	Healthy fruit	STU Supplier
9	I fruit	GST Strong...	15	Interesting f...	VWX Supplier
10	J fruit	Budgies-R...	1	Just fruit	VWX Supplier
11	Kiwifruit	Budgies-R...	15	NZ fruit	YZA Supplier
12	Lime	Sorry Every...	5	In the cocon...	BCD Suppli...
13	Mango	GST Strong...	1	Kramer fruit	ABC Supplier
15	Orange	Knives Out	0	Colourful fruit	GHI Supplier
16	Pineapple	Sorry Every...	20	Hawaiian fruit	JKL Supplier
22	Banana	GST Strong...	40	Shorter she...	YZA Supplier
22	Banana	Grey Brigade	6	Shorter she...	YZA Supplier

2.2.3 Querying the Table

To query the table, users have the option of 3 fields and 1 checkbox to tailor the query in a way that suits them.

Item Name:

Store Name:

Supplier Name:

☐ Show only Low Stock

Search

For example, a user can search for apples in the table by typing the word apple in the item name field and then hitting either enter or the search button on the right.

Item Name:

apple

Store Name:

Supplier Name:

☐ Show only Low Stock

Search

ItemID	Item	Store	Quantity	Summary	Supplier
1	Apple	GST Strong...	0	This is just ...	ABC Supplier
23	Apple	GST Strong...	79	Fuji - secon...	BCD Supplier
24	Apple	Knives Out	4	Fuji - Newer...	YZA Supplier
25	Apple	Budgies-R-...	804	Small Red ...	VWX Supplier
26	Apple	Sorry Everyo...	60	Big Red Del...	STU Supplier
26	Apple	Budgies-R-...	15	Big Red Del...	STU Supplier

This query can then be further tailored to the user by narrowing the store the apple is located at. In this case a user can type the word GST in the store name field and then hit either enter or the search button.

Item Name:

apple

Store Name:

gst

Supplier Name:

☐ Show only Low Stock

Search

ItemID	Item	Store	Quantity	Summary	Supplier
1	Apple	GST Strong...	0	This is just ...	ABC Supplier
23	Apple	GST Strong...	79	Fuji - secon...	BCD Supplier

In addition to this the supplier can also be specified when conducting a query. In this case typing in BCD in the supplier name field and then hitting either enter or search will once again narrow the results even further.

Item Name:

Store Name:

Supplier Name:

☐ Show only Low Stock

ItemID	Item	Store	Quantity	Summary	Supplier
23	Apple	GST Strong...	79	Fuji - secon...	BCD Supplier

Finally, the user can check to see whether the item has a low stock by checking the “show only low stock” box and then clicking the search button. In this case there are no entries because the apple fitting this criteria has more than enough already in stock.

Item Name:

Store Name:

Supplier Name:

☒ Show only Low Stock

ItemID	Item	Store	Quantity	Summary	Supplier
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However, if the other queries are removed and the search is then refreshed by hitting the search button, it is possible to see all the items that have a low quantity.

Item Name:

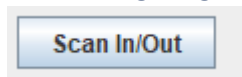
Store Name:

Supplier Name:

☒ Show only Low Stock

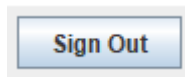
ItemID	Item	Store	Quantity	Summary	Supplier
1	Apple	GST Strong...	0	This is just ...	ABC Supplier
6	Grapes	GST Strong...	5	So grape	PQR Supplier
8	H fruit	Knives Out	1	Healthy fruit	STU Supplier
10	J fruit	Budgies-R-...	1	Just fruit	VWX Supplier
12	Lime	Sorry Everyo...	5	In the cocon...	BCD Supplier
13	Mango	GST Strong...	1	Kramer fruit	ABC Supplier
15	Orange	Knives Out	0	Colourful fruit	GHI Supplier
24	Apple	Knives Out	4	Fuji - Newer...	YZA Supplier
26	Apple	Budgies-R-...	15	Big Red Del...	STU Supplier

2.2.4 Navigating to the Scanning Window



To navigate to the Scanning Window user can click on the Scan In/Out button in the top left corner of the screen.

2.2.5 Exit Inventory



To return to the Login Window and exit the inventory users can click on the Sign Out button in the top right corner of the screen.

2.2.6 Solutions

1. If the table is blank make sure that all the fields are empty, and then click the search button.
2. If query returns no results make sure that whatever is being searched for is spelt correctly.
3. If issues persist feel free to contact the Glitch Tracking team and we will be happy to help sort out whatever your problem may be.

2.3 Scanning Window

2.3.1 Scan Item In

Scan In/Out

Item ID not found in database

Item ID:

Store:

Quantity:

Scan In Scan Out

Back

To scan an item into the database first enter the id of the item you want to add in the item ID field.

RFID 356a192b7913b04c54574d18c28d46e6395428...

Item ID: 1

This should auto populate the RFID field with the corresponding RFID value.

Store: GST Stronghold

Then enter the name of the store you want to add the item to.

Quantity: 10

Finally enter the quantity of the item to add.

Scan In

Once all fields are populated click the scan in button.

RFID 356a192b7913b04c54574d18c28d46e6395428...

Item ID: 1

Store: GST Stronghold

Quantity: 10

Scan In Scan O...

Ba... Item scanned in successfully

A confirmation message will then appear to confirm that the process was successfully completed.

2.3.3 Scan Item Out

The screenshot shows a window titled "Scan In/Out". At the top, it says "RFID" and "Item ID not found in database". Below this, there are three input fields: "Item ID:", "Store:", and "Quantity:". There are two buttons, "Scan In" and "Scan Out", and a "Back" button at the bottom left.

To scan an item out of the database first enter the id of the item you want to remove in the item ID field.

The screenshot shows the "Scan In/Out" window. The "RFID" field is now populated with a long alphanumeric string: "356a192b7913b04c54574d18c28d46e6395428...". The "Item ID:" field is now populated with the number "1".

This should auto populate the RFID field with the corresponding RFID value.

The screenshot shows the "Scan In/Out" window. The "Store:" field is now populated with the text "GST Stronghold".

Then enter the name of the store you want to remove the item from.

The screenshot shows the "Scan In/Out" window. The "Quantity:" field is now populated with the number "10".

Finally enter the quantity of the item to remove.

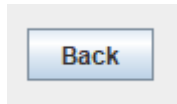
The screenshot shows a single button labeled "Scan Out".

Once all fields are populated click the scan out button.

The screenshot shows the "Scan In/Out" window. All fields are populated: "RFID" with "356a192b7913b04c54574d18c28d46e6395428ab", "Item ID:" with "1", "Store:" with "GST Stronghold", and "Quantity:" with "10". The "Scan In" and "Scan Out" buttons are visible. At the bottom, there is a "Back" button and a confirmation message: "Item scanned out successfully".

A confirmation message will then appear to confirm that the process was successfully completed.

2.3.4 Exit Scanner Window



To return to the Inventory Window press the back button in the bottom left corner.

2.3.5 Solutions

1. If the “please fill in all fields” error message is encountered ensure that all fields contain information.
2. If the “please enter a valid quantity” error message is encountered ensure that the quantity field only contains digits that are positive e.g., “10” and not “-10” or “0”.
3. If the “item not scanned in successfully” error message is encountered ensure that a valid item id is entered and ensure that a valid store name is entered.
4. If issues persist feel free to contact the Glitch Tracking team and we will be happy to help sort out whatever your problem may be.