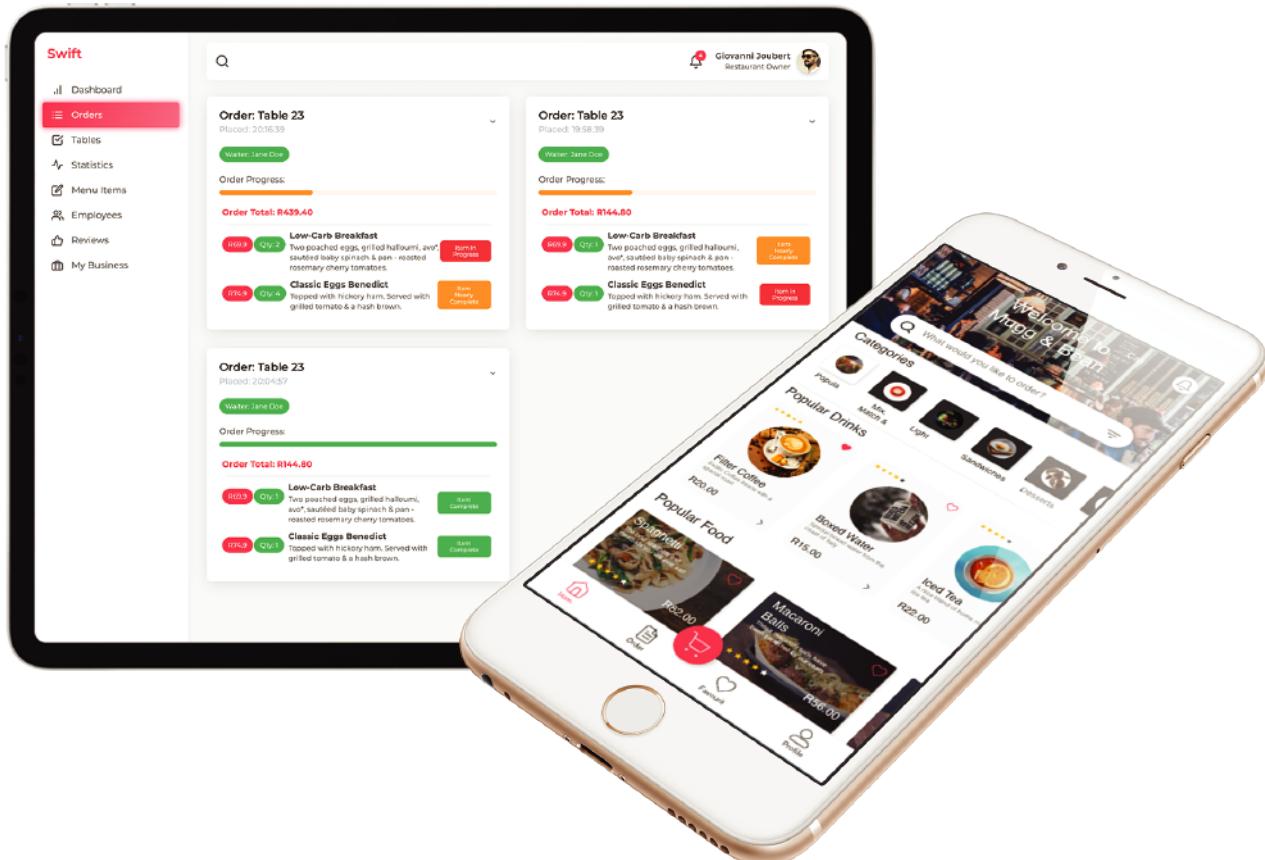


Swift

User Manual



App Introduction

Swift aims to create a convenient, flexible, and scalable interface suitable for both customers and restaurant owners giving users the opportunity to order, track and pay for their food immediately. The application will also use Augmented Reality to show real live photogrammetry models of the food, making the menu come to life.

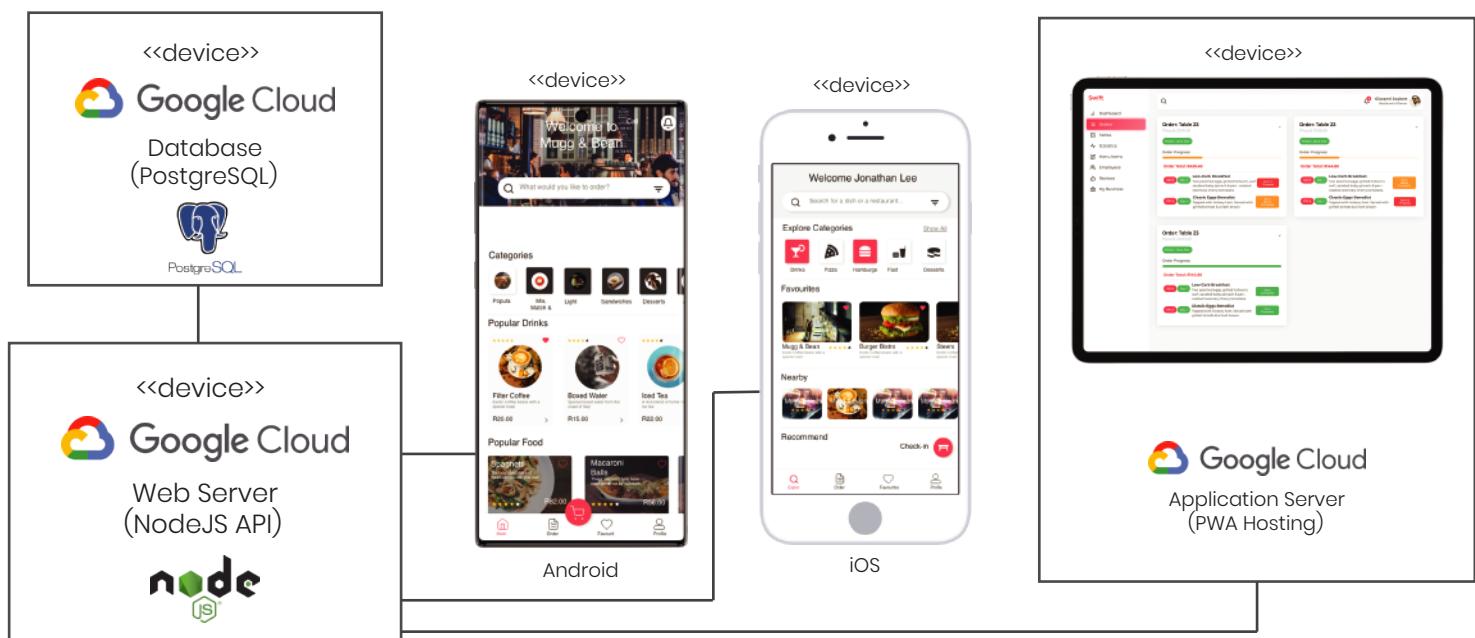
The app is available as two installable interfaces: Swift, suitable for customers at a restaurant, and Swift Management which is aimed at the restaurant owner and staff.

Installing Swift or Swift Management

Swift is being developed for, and can currently be run on: Android, iOS and as a Progressive Web App on modern browsers such as Google Chrome. We support both desktop and mobile devices through the web.

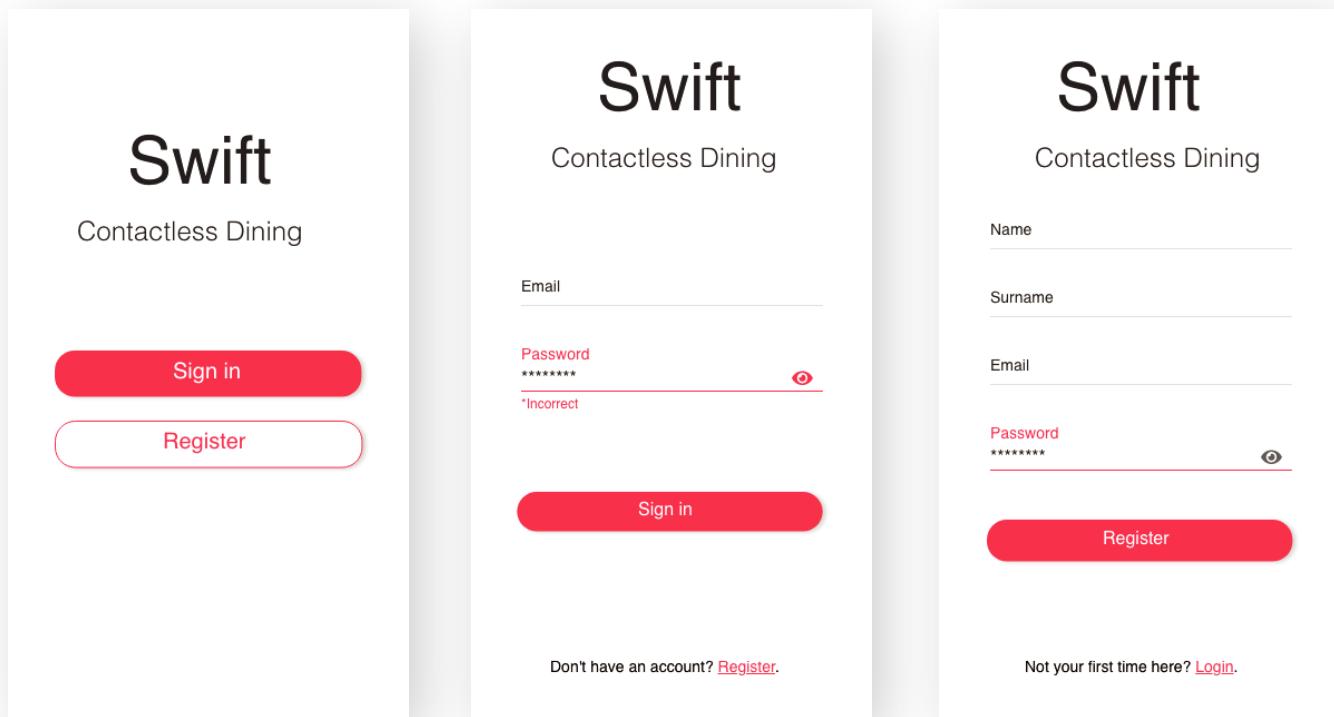
The app is currently installed through either its APK (Android) or development kit (iOS), but we plan to deploy it to the respective app stores once ready.

Simplified Deployment Diagram



Registration & Login

Upon opening the Swift app, you are presented with the option to either register or login. Once on either page, you can easily switch to the other by tapping either “Login” or “Register” at the bottom.



Simply fill in your details, the app will ensure that every field is correct according to the validation rules required. After you are done, tap on either “Sign in” or “Register”

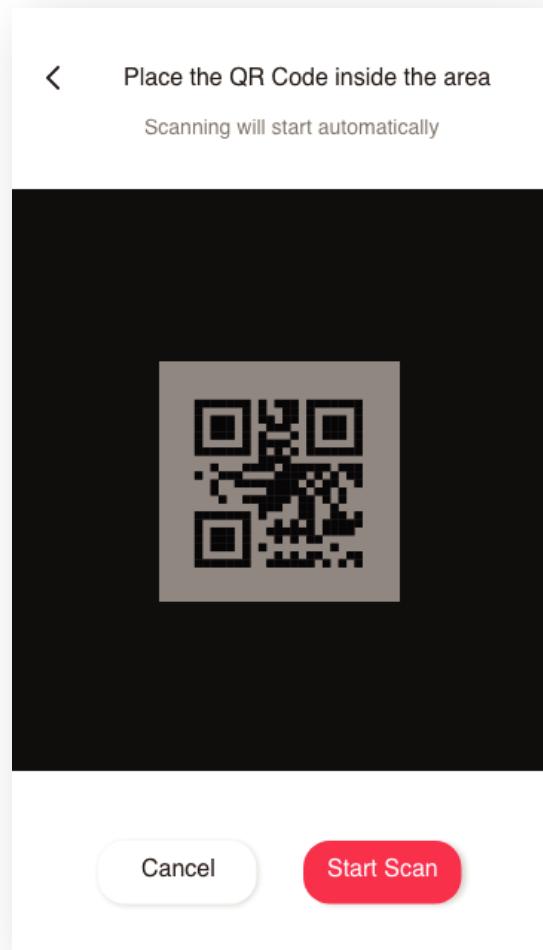
Security

Once you log in, your device is issued with a secure token pair that is used to verify each and every action that takes place within Swift. This ensures that someone else on another device won't be able to log in to your account.

Exploring Restaurant Options

Once logged in, you will be directed to the Explore page. Here you can use the search bar, or categories filter to narrow down the perfect restaurant for the occasion. Nearby restaurants are listed at the bottom, and restaurants that you have marked as favorite (more on that in a moment) show up in the middle. Once you have settled on which restaurant you prefer, simply tap on its image and you will be directed to the relevant menu options.

If you are already seated at a table with a Swift QRCode, tap the “Check-in” floating icon in the bottom right to open up your QRCode scanner.

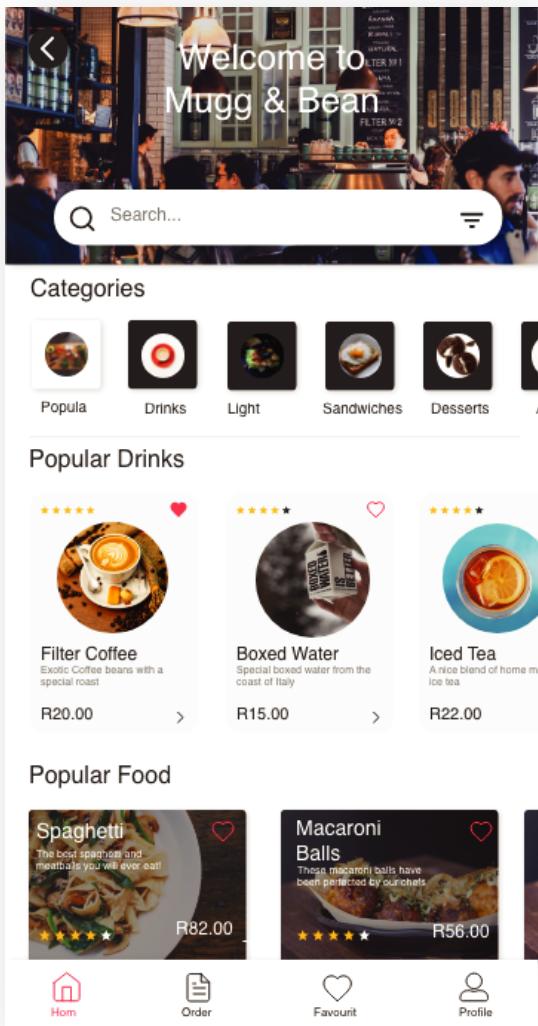


A screenshot of the Swift Check In app's explore page. At the top, it says "Welcome Jonathan Lee" and features a search bar with a magnifying glass icon and a filter icon. Below the search bar is a section titled "Explore Categories" with icons for Drinks (red), Pizza (white), Hamburger (red), Fast (white), and Desserts (white). To the right of these icons is a "Show All" link. The next section is "Favourites", showing three cards for "Mugg & Bean", "Burger Bistro", and "Steers", each with a small image, a heart icon, and a five-star rating. Below this is a "Nearby" section showing four cards for "Mugg & Bean" with similar details. The final section is "Recommend", which includes a "Check-in" button with a red icon and four navigation icons at the bottom: "Explore" (magnifying glass), "Order" (document), "Favourites" (heart), and "Profile" (person).

Check-in via QRCode

After pressing on the “Check-in” icon on the explore page, you will be redirected to a QRCode scanner. Should your device request camera access, please allow in order to use this feature.

Simply press on “Start Scan” and scan the QRCode on the table. You will automatically be checked-in to the restaurant and get a waiter assigned to you.



Exploring The Food/Drinks Menu

After you have checked-in to a restaurant, you can now view all of the menu items available. Again you have the option to filter by searching or via the provided categories. The beverages and food menu's appear below.

You can tap on the heart icon in the top right of each menu item to add it to your favorites.

Should you wish to view further information on each item, tap on the card displaying the item's image and you will be directed to the menu item's description and other details.

From here you can also add the item to your order.

Adding a Menu Item to the Order

Once you are on the specific menu item's page, you are provided with ratings left by other users, the item's description, the estimated preperation time and more.

From here you can customise the item by selecting the Size, Quantity and the various specific attributes of each item. Select the attributes you prefer and click "Add To Order" if you wish to purchase this menu item.

Reading Restaurant Reviews

On the menu item's page, click on the "Reviews" tab to see all reviews left by other users (and responses by the owner of the restaurant). Should you wish to quickly leave feedback on an item, you can make use of the "feedback-phrases" above the longer reviews. Simply tap on the stars to leave your

The screenshot shows a restaurant review page for 'Mugg & Bean'. At the top, there is a large circular icon with a fork and knife. Below it, the restaurant name 'Mugg & Bean' is displayed, followed by a five-star rating. The word 'Good' is written below the rating. There are three sections with star ratings: 'Atmosphere' (4.5 stars), 'Good Food' (4.5 stars), and 'Service' (4 stars). A text box contains a descriptive message: 'The perfect fruit salad for a backyard bbq or any occasion. There are never leftovers! This is one of my favorite fruit salad recipe.' A checkbox labeled 'Share with public' is checked, and a red button at the bottom says 'Leave Rating'.

The screenshot shows a detailed review for 'Fruit Salad'. At the top, there is a small image of the dish. Below it, the name 'Fruit Salad' is shown with a price of 'R120.0' and a delivery time of '15 min'. A five-star rating is displayed. The review text reads: 'The BEST Fruit Salad with a sweet and bright honey lime dressing! It's an incredibly refreshing, must have side dish that's made with beautiful blend of delicious fruits and a simple dressing to compliment it.' Below the review, there are two tabs: 'Details' and 'Reviews (5)'. Under 'Details', there are four categories: 'Delicious', 'Service', 'Atmosphere', and 'Music', each with a five-star rating. Below the tabs, there are several user reviews with profile pictures, timestamps, and heart counts. For example, Peter Jackson left a 5-star review on June 24, 2020, and Sandra Menice left a 4-star review on June 22, 2020. A green button at the bottom right says 'Add Review'.

Adding a Descriptive Review

To leave a more descriptive review, tap on "Add Review" at the bottom. You will be directed to the "Rate restaurant" page as seen on the left. Here you can leave your "feedback-phrases" accompanied with a descriptive message. You can choose to have the review be public by tapping on "share with public". Tap "Leave Rating" once you are ready to submit your feedback.

My Order		Order Status	Order History
Avo and Egg on Toast	R50.00	- 1 +	
Filter Coffee	R17.00	- 1 +	
Ribs	x 600g Ribs	Remove	
Subtotal	R75.00		
Tax(14% VAT included)	R2.0		
Waiter Tip	+ add tip		
Total	R77.00		

Order Now, Pay Later Pay Now

Home Order Favourites Profile

Order Status / History

If you tap on “Order Now, Pay Later”, you will immediately have access to your Order History and Order Status by navigating with the tabs at the top of the display. On the Order History tab, you can view all your recent orders, leave a rating, track outstanding orders or rate past orders.

On the Order Status page you are updated each time your meal’s status changes

Reviewing your Order

Once you have hit “Add Item to Order” on the menu-items page, you can navigate to “Order” on the bottom navigation menu. This will show all of your order items.

From here you can change the quantity of each order item by tapping on the plus or minus icons next to the item’s info.

Swiping from right to left on an item’s card will allow you to remove the item from your Cart.

At the bottom of this page you can view your order total.

You have the option to “Pay Now” or “Pay

My Order		Order Status	Order History
Order Status			
Order No: 53234			
<p>Order Placed <small>10:30 AM, 20 June 2020</small></p> <p>Order Busy <small>+ 25-35 minutes</small></p> <p>Your food is being prepared by Chef Andreas Alexis</p>			
<p>In Progress</p> <p>Mugg & Bean <small>11:00 June 24, 2020</small></p> <ul style="list-style-type: none"> - 1x Egg and avo on toast - 2x Filter Coffee <p>Track Order View</p> <p>Completed</p> <p>Crawdaddy's <small>18:00 June 04,</small></p> <ul style="list-style-type: none"> - 1x Nachos Grande - 1x Sauce Burger - 1x Rib-eye Steak - 2x Cappuccinos - 2x Chocolate desserts <p>Rate</p> <p>Mugg & Bean <small>11:00 June 24, 2020</small></p> <ul style="list-style-type: none"> - 1x Egg and avo on toast - 2x Filter Coffee <p>Rate Re-order</p>			
Home	Order	Favourite	Profile

The screenshot shows a mobile application interface for a payment transaction. At the top, there's a header bar with icons for time (03:22), signal strength, battery level (31%), and connectivity (Wi-Fi, LTE). Below the header, the title "Test Merchant" is displayed in bold black font. Underneath the title, a sub-header reads "Secured and powered by PayFast". A yellow callout box contains a message: "You're in the sandbox. This is a testing environment used to ensure correct integration with PayFast. If unexpected, please contact the merchant you are trying to pay to resolve the matter." Below this, a section titled "Swift Order" shows a table with "Payment total" listed as "R 223.20 ZAR". A red button labeled "COMPLETE PAYMENT" is visible. Further down, a summary of the payment details is provided in a table:

Payment total	R 223.20
From balance	-R 223.20
Remaining balance	R 98,016,405.14

At the bottom of the screen, there's a navigation bar with four items: "Home" (house icon), "Orders" (document icon), "Favourites" (heart icon), and "Profile" (person icon).

Processing Card Payments

Currently, we have only integrated with the PayFast payment gateway. We plan to extend this in the future to support Zapper, SnapScan and possibly NFC options as well.

Upon tapping on “Pay Now” on the order page, you will be redirected to PayFast. All of your confidential information such as credit cards are stored and managed by them.

To complete the payment, enter your payment detail in the PayFast prompt and tap “Complete Payment”.

App Introduction

Swift management provides restaurant owners of all sizes the opportunity to simplify their ordering process. With a fully-fledged dashboard, it provides owners the tools they need to successfully start and manage a top restaurant. We plan to release Swift management to the public, meaning there is no barrier to entry.

Installing Swift or Swift Management

Swift is being developed for, and can currently be run on: Android, iOS and as a Progressive Web App on modern browsers such as Google Chrome. We support both desktop and mobile devices through the web.

The app is currently installed through either its APK (Android) or development kit (iOS), but we plan to deploy it to the respective app stores once ready.

The screenshot displays the Swift Management App interface across two main sections: Orders and Tables.

Orders Section:

- Order: Table 23 (Placed: 23:54:40):** Placed by Walter, Jane Doe. Order Progress: **Item In Progress**. Order Total: R139.80. Items include: Low-Carb Breakfast (R69.9, Qty: 2), Two poached eggs, grilled halloumi, avocado, sautéed baby spinach & pan-roasted rosemary cherry tomatoes. Item status: Item In Progress.
- Order: Table 23 (Placed: 20:01:53):** Placed by Walter, Jane Doe. Order Progress: **Item Complete**. Order Total: R144.80. Items include: Low-Carb Breakfast (R69.9, Qty: 1), Two poached eggs, grilled halloumi, avocado, sautéed baby spinach & pan-roasted rosemary cherry tomatoes. Item status: Item Complete.
- Order: Table 23 (Placed: 20:07:19):** Placed by Walter, Jane Doe. Order Progress: **Item In Progress**. Order Total: R439.40. Items include: Low-Carb Breakfast (R69.9, Qty: 2), Two poached eggs, grilled halloumi, avocado, sautéed baby spinach & pan-roasted rosemary cherry tomatoes. Item status: Item In Progress.
- Order: Table 23 (Placed: 20:17:16):** Placed by Walter, Jane Doe. Order Progress: **Item In Progress**. Order Total: R439.40. Items include: Low-Carb Breakfast (R69.9, Qty: 2), Two poached eggs, grilled halloumi, avocado, sautéed baby spinach & pan-roasted rosemary cherry tomatoes. Item status: Item In Progress.
- Order: Table 23 (Placed: 20:49:32):** Placed by Walker, James Richards. Order Progress: **Item In Progress**. Order Total: R394.40. Items include: Toasted Chicken Mayo & Easy Cappuccino (R69.9, Qty: 1).
- Order: Table 23 (Placed: 19:58:39):** Placed by Walter, Jane Doe. Order Progress: **Item In Progress**. Order Total: R144.80. Items include: Low-Carb Breakfast (R69.9, Qty: 2), Two poached eggs, grilled halloumi, avocado, sautéed baby spinach & pan-roasted rosemary cherry tomatoes. Item status: Item In Progress.

Tables Section:

- Restaurant Tables:** Shows a grid of tables with QR codes for quick access.
 - Table 1:** Status: Vacant.
 - Table 2:** Status: 1 Customer.
 - Table 3:** Status: Vacant.
 - Table 4:** Status: Vacant.
 - Table 5:** Status: Vacant.
 - Add New:** Button to add a new table.

Swift Getting Started

User Manual

Management App

Registration & Login

Upon opening the Swift Management app, you are required to either Register an account or Login to an existing account. To switch between the two options, click on the tabs above the respective forms.

The image displays two side-by-side screenshots of the Swift Management app's registration and login interface. The left screenshot shows the 'Login' screen, which includes fields for 'Email' (containing 'u18009035@tuks.co.za') and 'Password', a 'Remember Me' checkbox, a 'Forgot Password?' link, and a red 'Login' button. The right screenshot shows the 'Register' screen, which includes fields for 'First name', 'Last name', 'Email', 'Password', 'Confirm Password', and a checked 'I accept the terms & conditions.' checkbox. Both screens feature a 'Login' tab and a 'Register' tab above their respective forms, with the 'Register' tab being active in the right screenshot.

Simply fill in your details, the app will ensure that every field is correct according to the validation rules required. After you are done, tap on either “Login” or “Register”

Security

Once you log in, your device is issued with a secure token pair that is used to verify each and every action that takes place within Swift. This ensures that someone else on another device won't be able to log in to your account.

The screenshot displays a dashboard with a sidebar on the left containing navigation links: Dashboard, Orders (highlighted in red), Tables, Statistics, Menu Items, Employees, Reviews, and My Business. The main area shows six open orders for different tables:

- Order: Table 23** (Placed: 23:54:40)
 - Waiter: Jane Doe
 - Order Progress: [Progress Bar]
 - Order Total: R139.80
 - Low-Carb Breakfast**: R69.9 (Qty: 2) - Item In Progress
 - Classic Eggs Benedict**: R74.9 (Qty: 1) - Item In Progress
- Order: Table 23** (Placed: 20:01:53)
 - Waiter: Jane Doe
 - Order Progress: [Progress Bar]
 - Order Total: R144.80
 - Low-Carb Breakfast**: R69.9 (Qty: 1) - Item In Progress
 - Classic Eggs Benedict**: R74.9 (Qty: 1) - Item In Progress
- Order: Table 23** (Placed: 20:07:19)
 - Waiter: Jane Doe
 - Order Progress: [Progress Bar]
 - Order Total: R439.40
 - Low-Carb Breakfast**: R69.9 (Qty: 2) - Item In Progress
 - Classic Eggs Benedict**: R74.9 (Qty: 4) - Item In Progress
- Order: Table 23** (Placed: 20:17:16)
 - Waiter: Jane Doe
 - Order Progress: [Progress Bar]
 - Order Total: R439.40
 - Low-Carb Breakfast**: R69.9 (Qty: 2) - Item In Progress
- Order: Table 23** (Placed: 20:49:32)
 - Waiter: James Richards
 - Order Progress: [Progress Bar]
 - Order Total: R394.40
 - Toasted Chicken Mayo & Easy Cappuccino**: R69.9 (Qty: 1) - Item In Progress
- Order: Table 23** (Placed: 19:58:39)
 - Waiter: Jane Doe
 - Order Progress: [Progress Bar]
 - Order Total: R144.80
 - Low-Carb Breakfast**: R69.9 (Qty: 1) - Item In Progress

Manage Orders

Once logged in, you will be redirected to the Orders section. Here you can view all active orders for your Restaurant. All menu items associated with an order will display alongside the quantity and price for each item. The waiter assigned to the order, order total and the progress of the order show above the menu items.

The comparison shows two side-by-side order status screens for Table 23:

- Left Screen (Initial Status):**
 - Waiter: Jane Doe
 - Order Progress: [Progress Bar]
 - Order Total: R144.80
 - Low-Carb Breakfast**: R69.9 (Qty: 1) - Item In Progress
 - Classic Eggs Benedict**: R74.9 (Qty: 1) - Item In Progress
- Right Screen (Final Status):**
 - Waiter: Jane Doe
 - Order Progress: [Progress Bar]
 - Order Total: R144.80
 - Low-Carb Breakfast**: R69.9 (Qty: 1) - Item Complete
 - Classic Eggs Benedict**: R74.9 (Qty: 1) - Item Complete

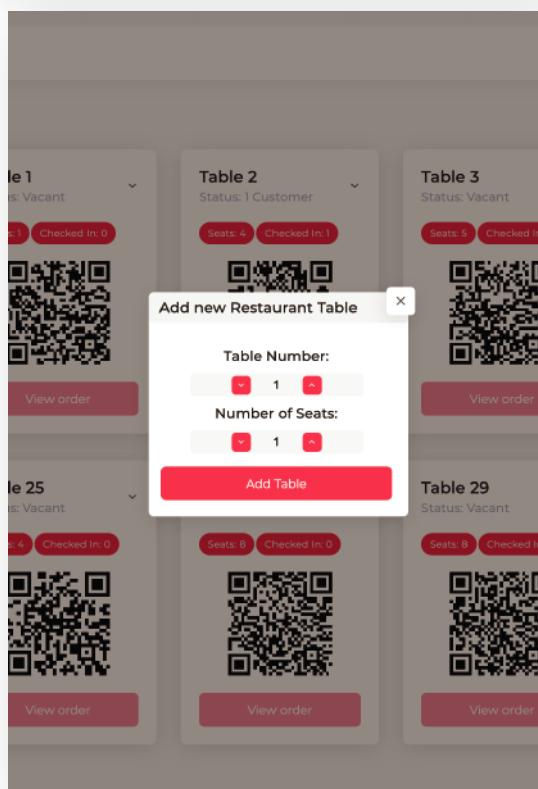
Update Order Status

To keep the customer in the loop, you can update the order status by clicking on the button to the right of each menu item within a specific order. This will change the menu item's status between "Item in Progress, Item Almost Complete, Item Complete" and increase the entire order's status proportionally. The customer is then notified and received the order completion percentage.

Manage Tables

Heading to the Tables section (by clicking on the “Tables” tab in the left hand menu) will show all the tables at your restaurant, alongside the current status of the table, a link to the table’s order (if there is any) and the tables QRCode used by customers to check-in.

The screenshot shows the “Tables” section of the Swift app. On the left is a sidebar with navigation links: Dashboard, Orders, Tables (which is highlighted in red), Statistics, Menu Items, Employees, Reviews, and My Business. The main area is titled “Restaurant Tables” and displays ten table cards. Each card includes a QR code, the table number, its status (e.g., Status: Vacant or Status: 1 Customer), seat count (e.g., Seats: 4), checked-in count (e.g., Checked In: 0), and a “View order” button. A “Add New” button is located at the bottom right of the table list.



Adding a new Table

To add a new table to your restaurant, click on the “Add New Table” button that appears at the end of the list of tables.

This will show a popup where you can specify the new table’s number and the number of seats to allocate to the table.

A QRCode is automatically generated for the table.

Menu Items

Management App

Actions	NAME	CATEGORY	POPULARITY	PREP TIME	PRICE	ACTION
<input type="checkbox"/>	Green Smoothie	Cold Beverages	<div style="width: 100px;"></div>	<div style="width: 15 min;"></div>	R34.90	
<input type="checkbox"/>	Muggachino	Cold Beverages	<div style="width: 80px;"></div>	<div style="width: 15 min;"></div>	R39.90	
<input type="checkbox"/>	Flat White	Hot Beverages	<div style="width: 60px;"></div>	<div style="width: 15 min;"></div>	R29.90	
<input type="checkbox"/>	Americano	Hot Beverages	<div style="width: 60px;"></div>	<div style="width: 15 min;"></div>	R27.90	
<input type="checkbox"/>	Cappuccino	Hot Beverages	<div style="width: 100px;"></div>	<div style="width: 15 min;"></div>	R29.90	
<input type="checkbox"/>	Pie or Tart Slice	Burgers	<div style="width: 60px;"></div>	<div style="width: 10 min;"></div>	R49.90	

Manage Menu

Heading to the Menu Items section (by clicking on the “Menu Items” tab in the left hand menu) will list all the menu items available at your Restaurant. You can use the checkboxes on the left of each menu item to select multiple items if you need to use a bulk action (Delete, Export). Clicking on the title of any field will arrange the menu items according to that field.

Actions	NAME	CATEGORY	POPULARITY	PREP TIME	PRICE	ACTION
<input type="checkbox"/>	Big Wrap	Famous Sandwiches	<div style="width: 100px;"></div>	<div style="width: 10 min;"></div>	R19.90	
<input type="checkbox"/>	B&W Wing Condo	Dishes	<div style="width: 60px;"></div>	<div style="width: 10 min;"></div>	R19.90	
<input type="checkbox"/>	Philly BBQ Grill	Dishes	<div style="width: 100px;"></div>	<div style="width: 10 min;"></div>	R39.90	
<input type="checkbox"/>	BBQ	Famous Sandwiches	<div style="width: 60px;"></div>	<div style="width: 10 min;"></div>	R49.90	
<input type="checkbox"/>	Avs, Bacon & Feta	Famous Sandwiches	<div style="width: 100px;"></div>	<div style="width: 10 min;"></div>	R59.90	
<input type="checkbox"/>	Salty Buffalo Wings	Soups & Bowls	<div style="width: 60px;"></div>	<div style="width: 10 min;"></div>	R19.90	

Actions	NAME	CATEGORY	POPULARITY	PREP TIME	PRICE	ACTION
<input checked="" type="checkbox"/>	Big Wrap	Famous Sandwiches	<div style="width: 100px;"></div>	<div style="width: 10 min;"></div>	R19.90	
<input checked="" type="checkbox"/>	B&W Wing Condo	Dishes	<div style="width: 60px;"></div>	<div style="width: 10 min;"></div>	R19.90	
<input checked="" type="checkbox"/>	Philly BBQ Grill	Dishes	<div style="width: 100px;"></div>	<div style="width: 10 min;"></div>	R39.90	
<input checked="" type="checkbox"/>	BBQ	Famous Sandwiches	<div style="width: 60px;"></div>	<div style="width: 10 min;"></div>	R49.90	
<input checked="" type="checkbox"/>	Avs, Bacon & Feta	Famous Sandwiches	<div style="width: 100px;"></div>	<div style="width: 10 min;"></div>	R59.90	
<input checked="" type="checkbox"/>	Salty Buffalo Wings	Soups & Bowls	<div style="width: 60px;"></div>	<div style="width: 10 min;"></div>	R19.90	

PREP TIME	PRICE	ACTION
40 min	R144.90	
40 min	R144.90	

Changing List View

To change the amount of menu items that display, click on the drop down next to the search bar at the righthand side of the display. Here you can select how many items to display on each sub-page.

Managing Restaurants

Anyone can register for the Swift management application and list their restaurant on the system. A user also has the option to create multiple restaurant branches, or even completely separate businesses.

The screenshot shows the 'My Business' section of the Swift app. On the left is a sidebar with links: Dashboard, Orders, Tables, Statistics, Restaurant Menu, Employees, Reviews, and My Business (which is highlighted). The main area has a search bar at the top. Below it is a card for 'Simply Asia' with a photo of food, a branch location, and an edit button. At the bottom is a red 'Add Restaurant' button.

This screenshot shows the 'Add New Restaurant' dialog. It has fields for 'Restaurant Name' (Spur) and 'Branch' (Irene). There's a 'Description' text area containing placeholder text about burgers and steaks. Below that is a section for selecting categories with buttons for various food types. At the bottom is a preview of a restaurant header image and a red 'Create Restaurant' button.

Adding a new Restaurant

Upon clicking on “Add Restaurant” from the My Business view, the user can proceed to provide the details of their restaurant. They can add a header image to draw a customer’s attention and select the main categories that their restaurant falls in to.

Changing the current Restaurant

The management user can change their current restaurant within the navigation bar.

This screenshot shows a navigation bar with a dropdown menu for 'Restaurant: select one'. The menu lists 'Simply Asia' and 'Spur'. The 'Spur' option is currently selected, indicated by a red border around the text.

Adding a new Menu (and menu item)

By navigating to the Restaurant Menu view, the user can select “Add Menu Item” to create a new menu.

Add Menu Item

The screenshot shows the "Add Menu Item" form. At the top left is a red "Back to Menu" button. Below it is a "General" section with a sub-instruction "Provide the base description of the item". It contains fields for "Item Name" (empty), "Price (ZAR)" (20,5), "Preparation Time (min)" (10), and "Item Description" (empty). There are also dropdowns for "Item Menu" and "Add Category".

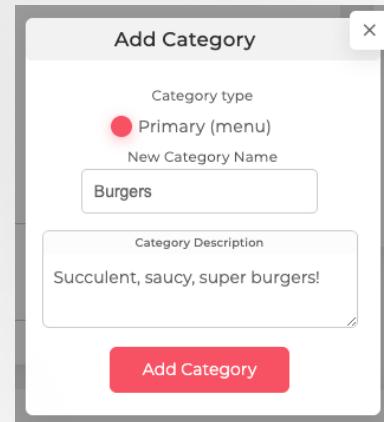
Adding a new Category

From the General section, a user can create a new menu item category. The categories can be either primary or have a parent category.

The screenshot shows the "Add Category" dialog. It has a "Category type" section with "Primary (menu)" selected. The "New Category Name" field contains "Burgers". The "Category Description" field contains "Succulent, saucy, super burgers!". A red "Add Category" button is at the bottom right.

Describing the item

The user fills in the item specifics in the General section. The item can be assigned to a specific menu e.g. “Drinks” and given a sub-category.



Adding specific Attributes

Users can add item specific attributes by assigning different custom values, with their cost implications. A min and max value is provided to give the user the freedom to create their own custom menu structures.