

## The User's Manual of EBusinessCar Complex System

### Requirement:

The development environment of EBusinessCar includes JDK 21 and NetBeans IDE 23.

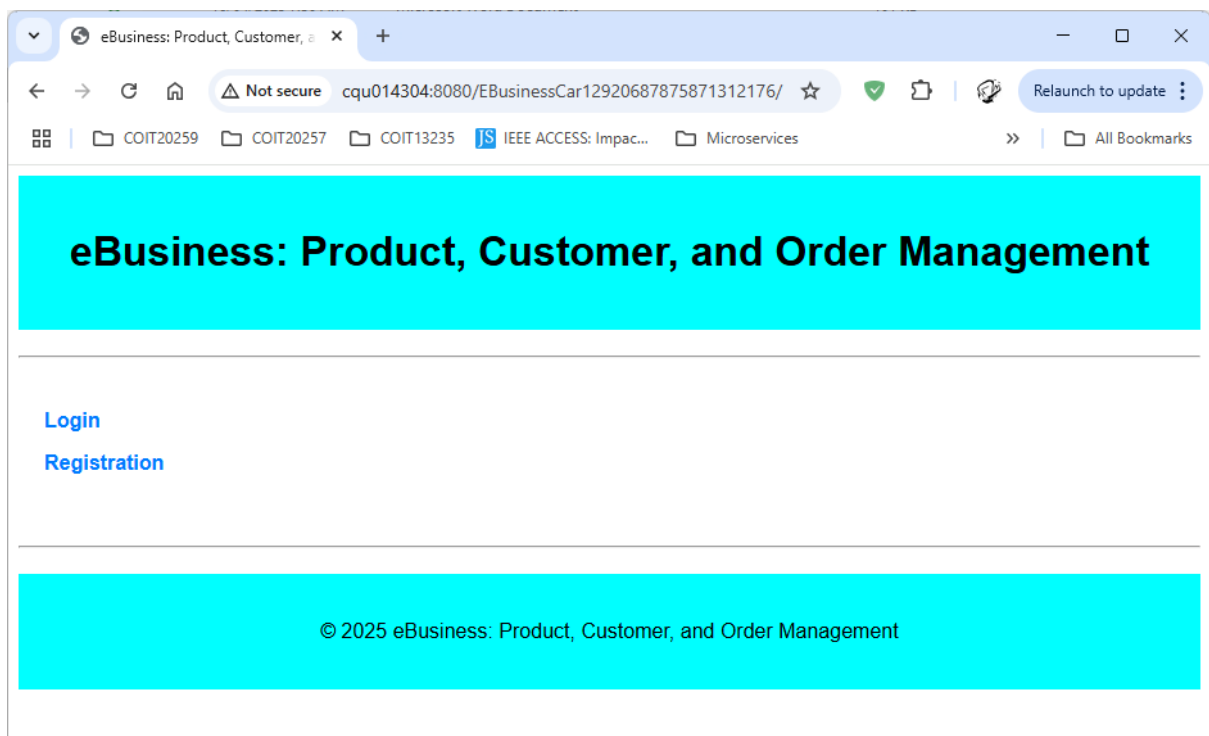
The runtime environment of EBusinessCar includes JRE21, GlassFish Application Server 7.0.9, MySQL Server, Workbench, and Connector/J 8.0.29 or a higher version.

The setting of database connections includes:

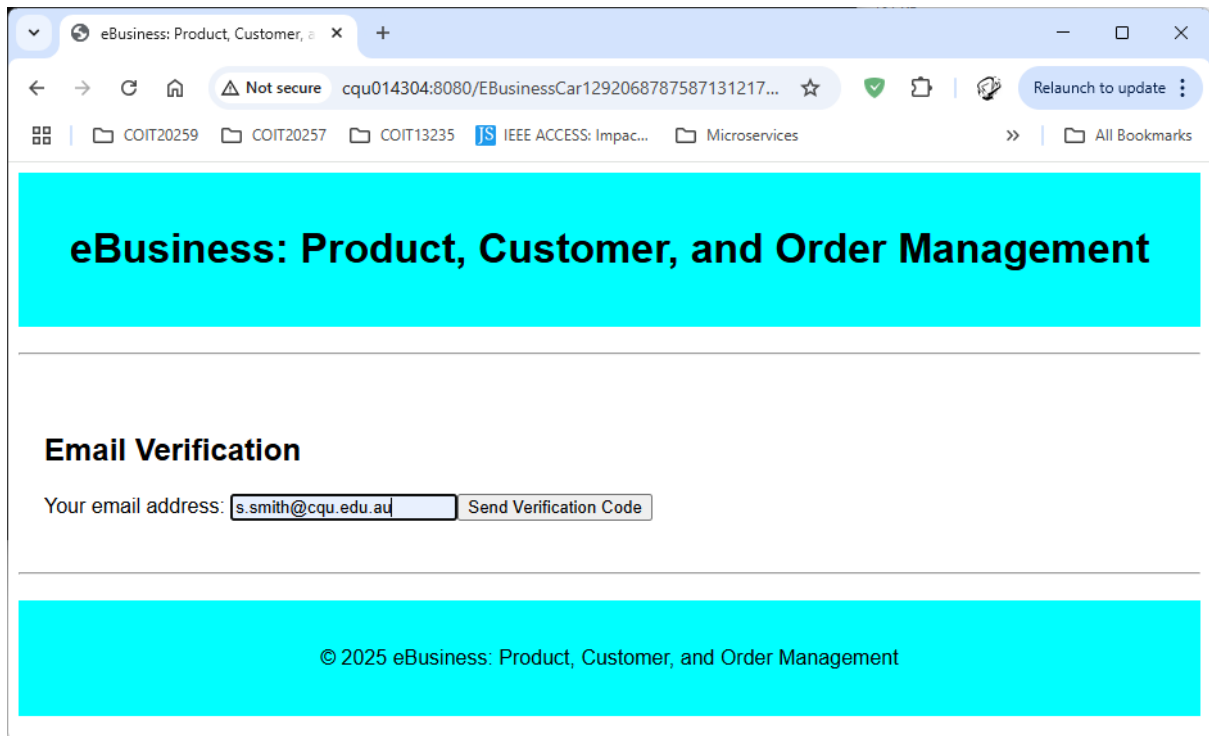
- Creating the “aicardb” database schema in MySQL server
- Creating the JDBC data source “jdbc/AICarDS” in GlassFish
- Creating the JDBC connection pool “AICarPool” with an URL connecting to MySQL database schema “aicardb” in GlassFish
- Mapping the JDBC data source “jdbc/AICarDS” to the JDBC connection pool “AICarPool” in GlassFish

### Running EBusinessCar

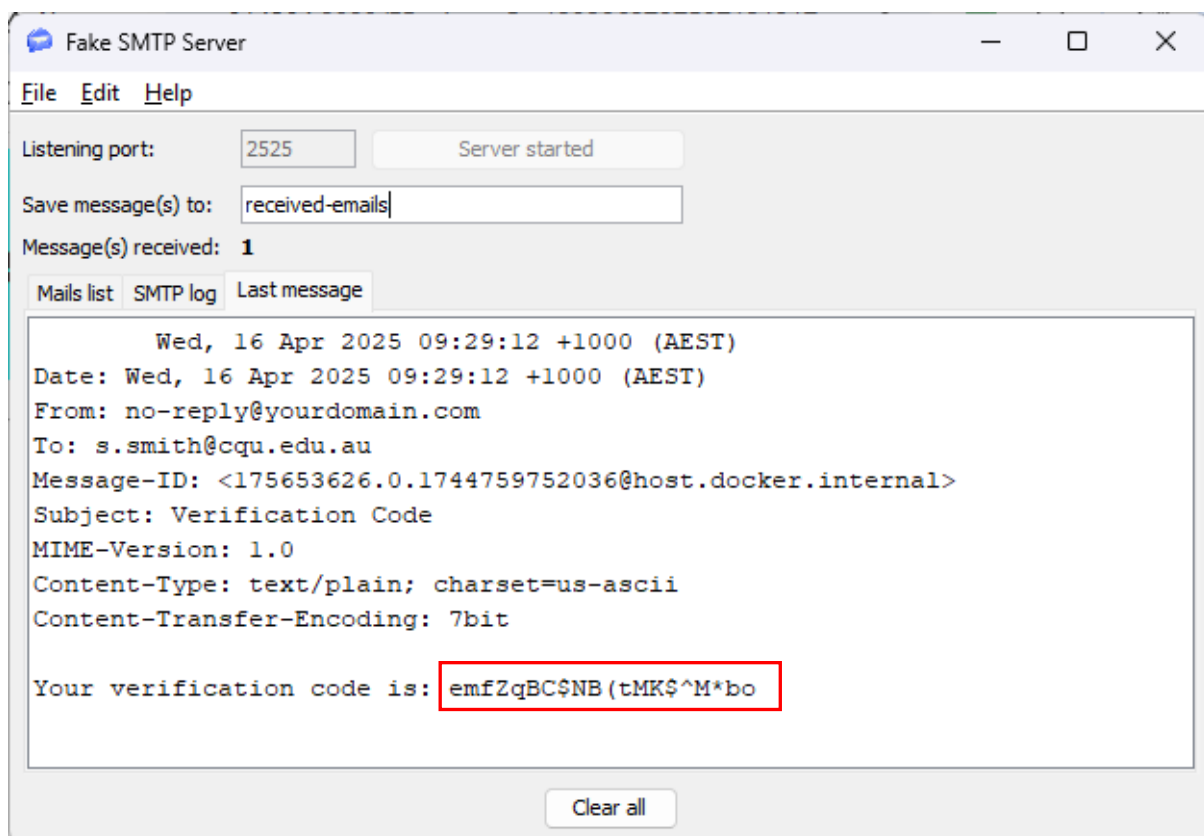
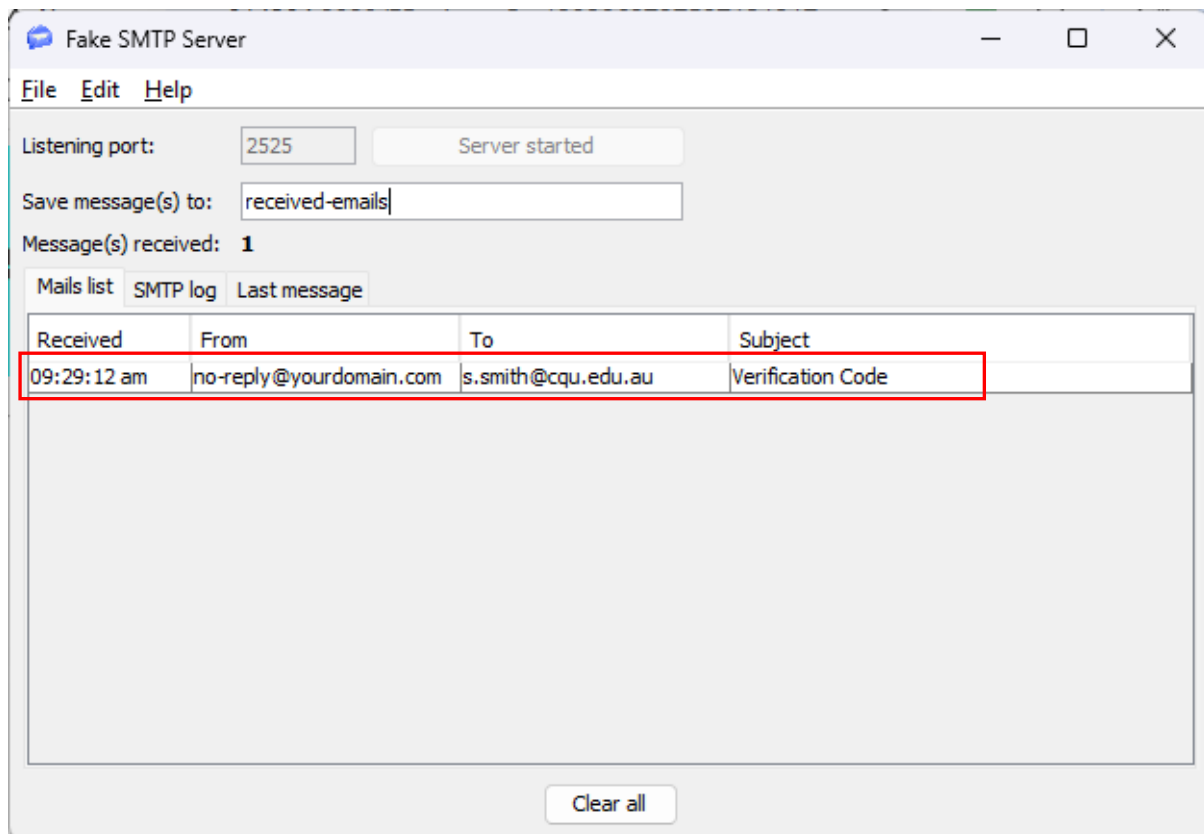
1. User registration. The index page provides user registration and login functions.



To register to the system, a user (e.g., Stephen Smith) must have a valid email address.



The system will send a verification code to the user's email address. To avoid potential issues of violating terms and conditions of a commercial email server such as Gmail, the system can contact a fake SMTP server called CentreMail for demonstration to send an email (a verification code) to the user. The fake SMTP server can be downloaded at <http://nilhcem.com/FakeSMTP/download.html>.



The user needs to use the verification code to complete the registration.

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### Register

Verification Code:

First Name:

Last Name:

Username:

Password:

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The registered user is saved in the database. The password has been hashed (512 bits)

#	ID	EMAIL	FIRSTNAME	LASTNAME	PASSWORDHASH	USERNAME
1	1	s.smith@cqu.edu.au	Stephen	Smith	PL0mZj3UrpQnX6MvfwNQyNACgmFH81bZ/aeU...	StephenSmith

2. User login: a registered user needs to login the system, then the user can access the full functions of the system.

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**Login**

Username:

Password:

[Forgot your username and/or password?](#)

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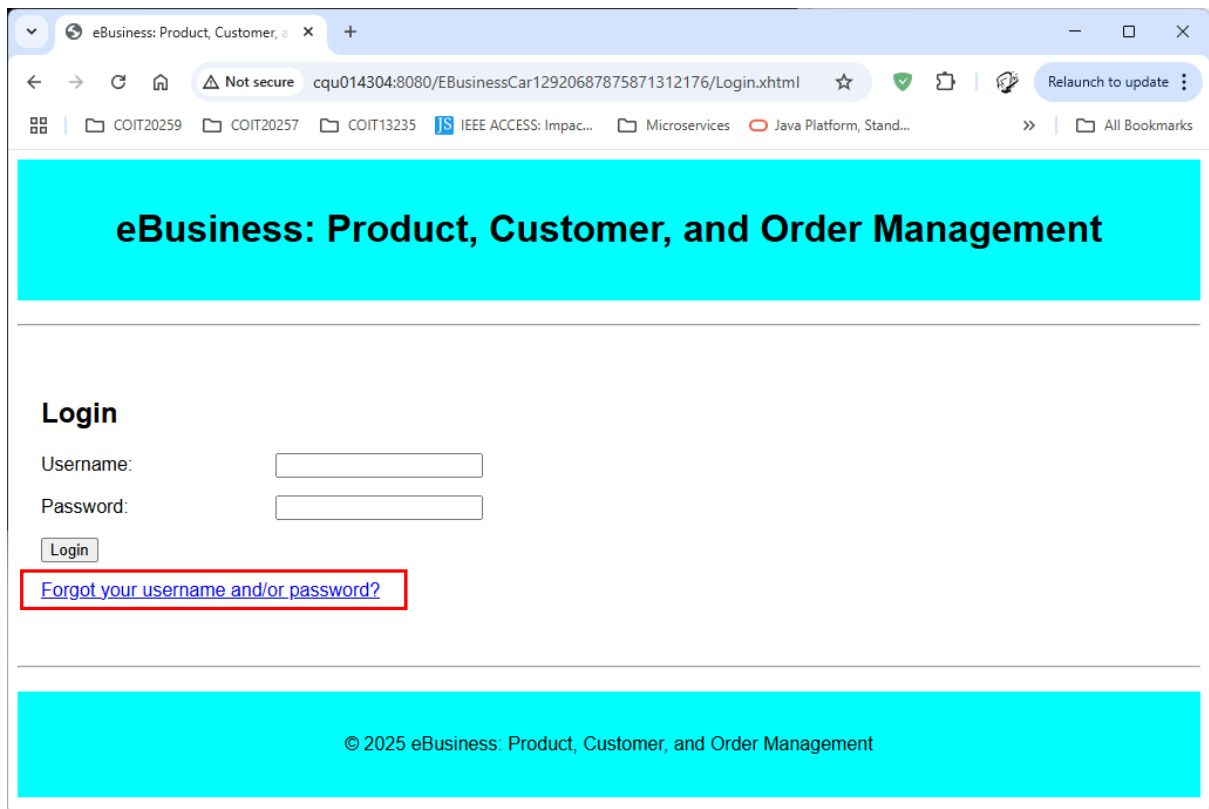
After a user logs in, the system functions can be accessed.

**eBusiness: Product, Customer, and Order Management**

<a href="#">Create a Brand New Car</a>	<a href="#">Check Brand New Car Stock</a>	<a href="#">Search for a Brand New Car</a>
<a href="#">Create a Used Car</a>	<a href="#">Check Used Car Stock</a>	<a href="#">Search for a Used Car</a>
<a href="#">Create a Customer</a>	<a href="#">List All Customers</a>	<a href="#">Search for a Customer</a>
<a href="#">Create an Order</a>	<a href="#">List All Orders</a>	<a href="#">Search for an Order</a>

[Logout](#)

3. Account recovery: when a user forgets username or password, the user can recover his/her account by his/her email.



The screenshot shows a web browser window with the title "eBusiness: Product, Customer, and Order Management". The address bar shows a URL starting with "cqu014304:8080/EBusinessCar12920687875871312176/Login.xhtml". The page has a red header bar with the title. Below the header, there is a "Login" section with two input fields for "Username:" and "Password:". A "Login" button is below the password field. A link "Forgot your username and/or password?" is highlighted with a red rectangle. At the bottom, there is a red footer bar with the copyright notice "© 2025 eBusiness: Product, Customer, and Order Management".

**eBusiness: Product, Customer, and Order Management**

**Login**

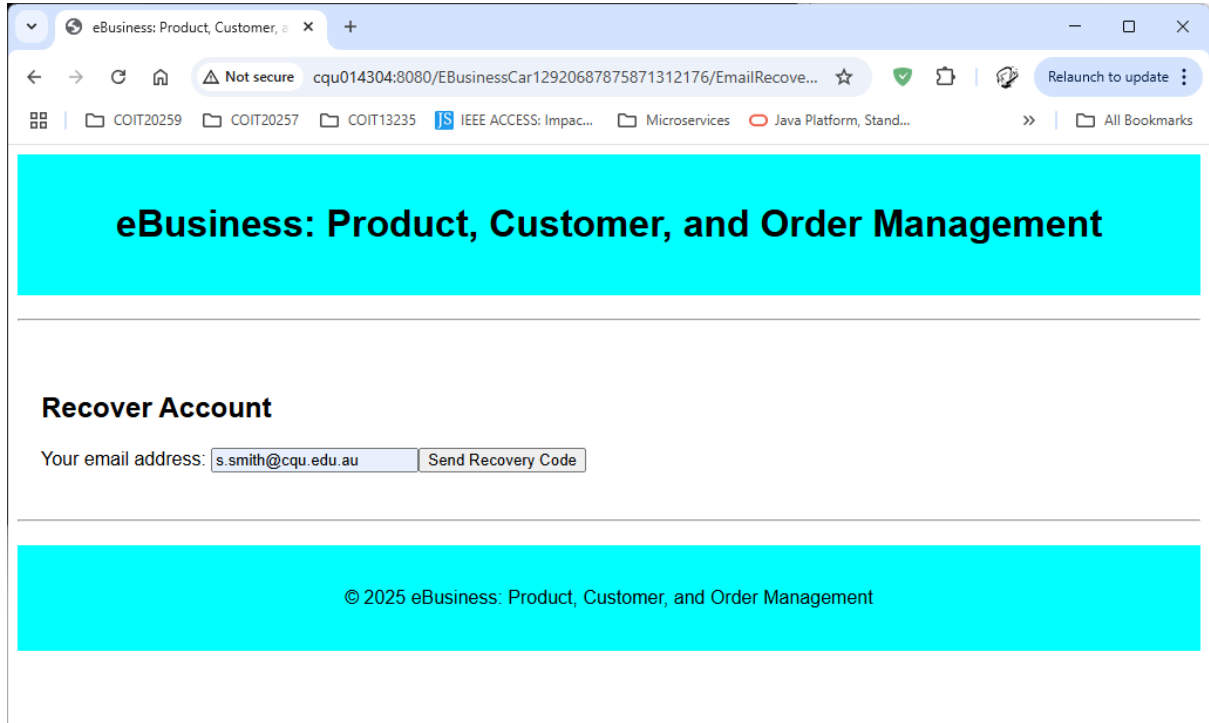
Username:

Password:

[Forgot your username and/or password?](#)

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The system will send an email (a recovery code) to the user's email address.



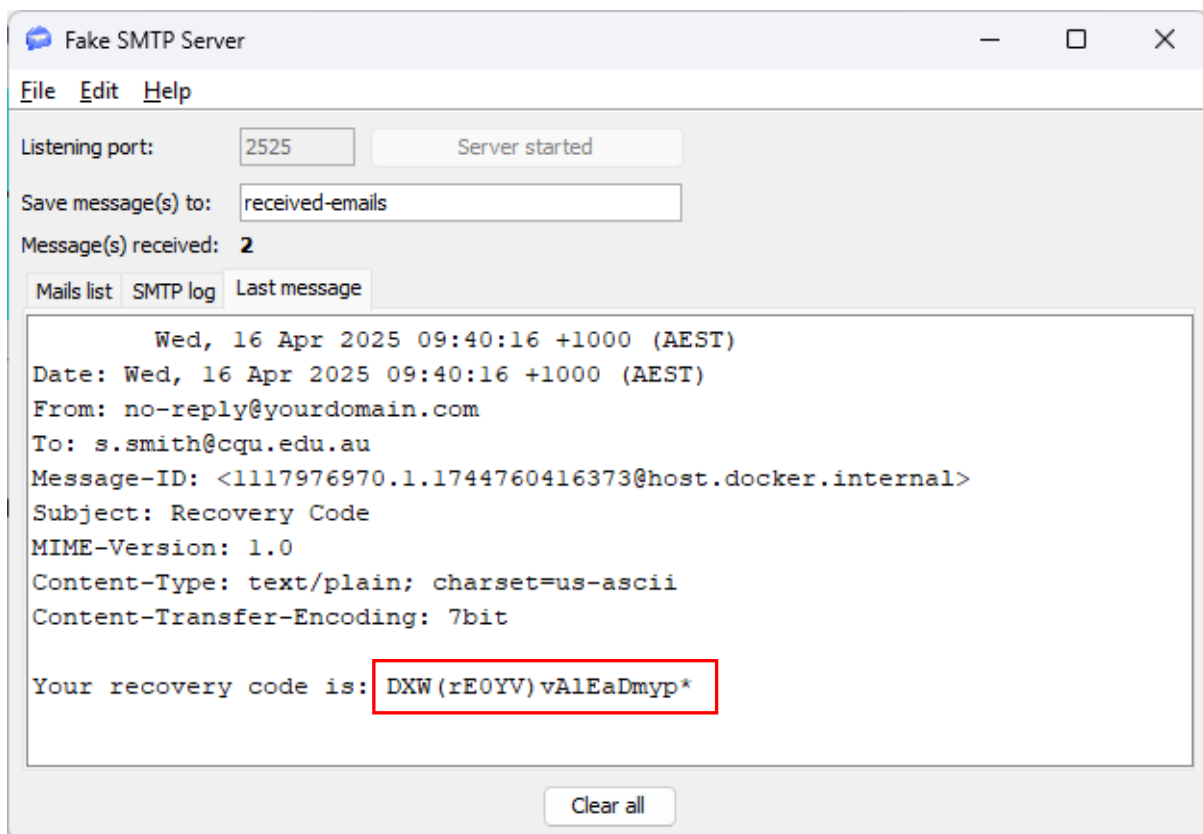
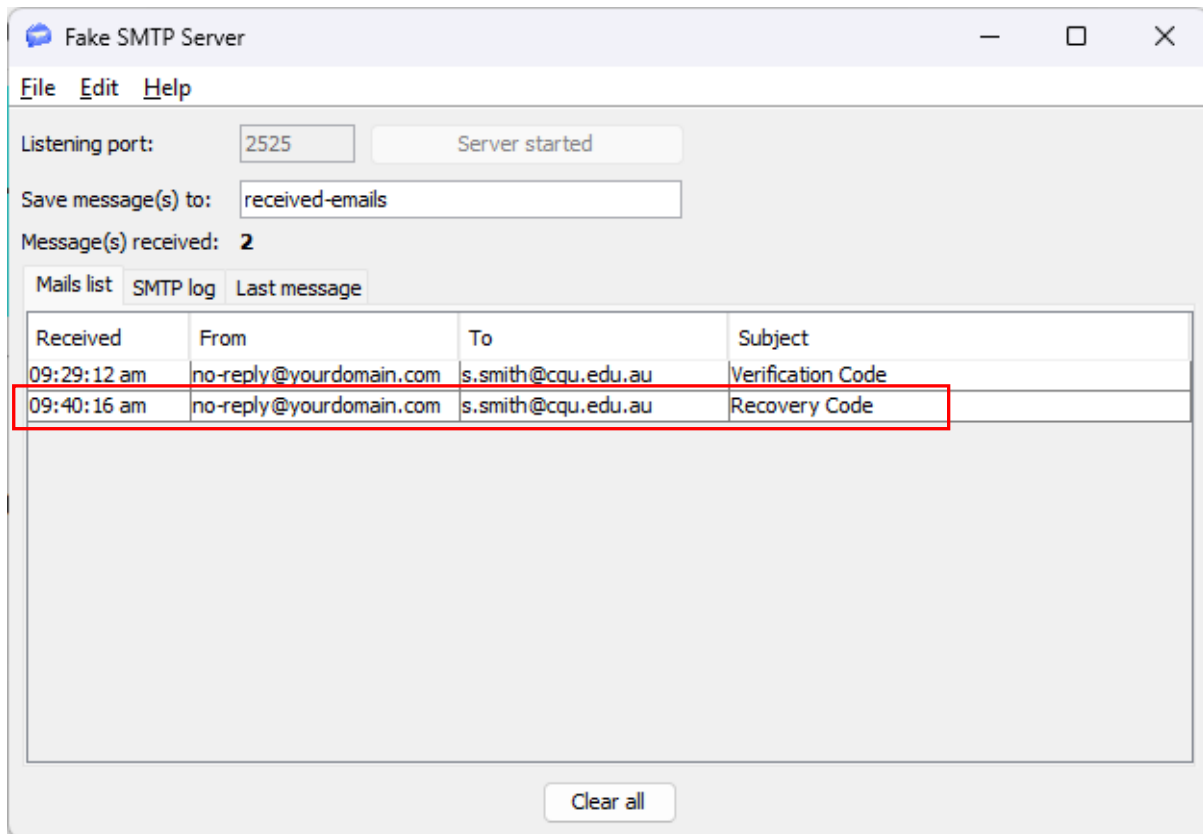
The screenshot shows a web browser window with the title "eBusiness: Product, Customer, and Order Management". The address bar shows a URL starting with "cqu014304:8080/EBusinessCar12920687875871312176/EmailRecover...". The page has a red header bar with the title. Below the header, there is a "Recover Account" section with a label "Your email address:" followed by an input field containing "s.smith@cqu.edu.au" and a "Send Recovery Code" button. At the bottom, there is a red footer bar with the copyright notice "© 2025 eBusiness: Product, Customer, and Order Management".

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**Recover Account**

Your email address:

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The user needs to use the recovery code to retrieve his/her username and reset his/her password.

Browser window: eBusiness: Product, Customer, and Order Management

Address bar: Not secure cqu014304:8080/EBusinessCar12920687875871312176/Passwo...

Page Title: eBusiness: Product, Customer, and Order Management

### Password Recovery

First Name: Stephen  
Last Name: Smith  
Email: s.smith@cqu.edu.au  
Username: StephenSmith

Recovery Code:

New Password:

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4. Any attempts to access a function page of the system without login will be redirected to the login page

Browser window: eBusiness: Product, Customer, and Order Management

Address bar: http://cqu014304:8080/EBusinessCar12920687875871312176/protected/CreateBrandNewCar.xhtml

Page Title: eBusiness: Product, Customer, and Order Management

### Login

Username:

Password:

[Forgot your username and/or password?](#)

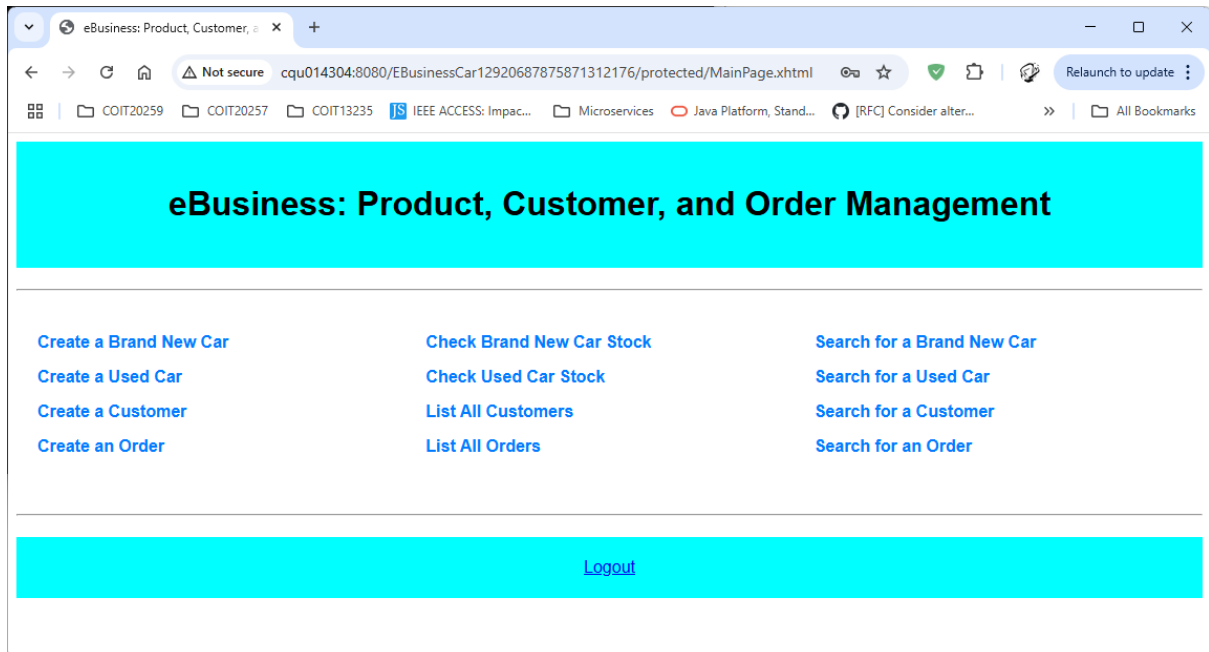
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Annotations:

- Redirect to the login page (arrow pointing from the address bar to the Login section)
- Try to access the page of creating a brand new car without login (arrow pointing from the address bar to the protected URL)



5. The main Jakarta page of the e-business system: the following functions can be accessed by a logged in user.



6. Create a brand-new car or a used car

Create a Brand New Car

Not secure | Relaunch to update

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## eBusiness: Product, Customer, and Order Management

### Create a Brand New Car

Reference Number:

N12345

Make:

Toyota

Model:

Land Cruiser 200

Engine Type:

V8

Drive Type:

4x4

Transmission:

Automatic

Fuel Type:

Diesel

Seats:

7

Doors:

5

Colour:

Silver

Price:

100000.00

Warranty:

2 Years

Extending Warranty:

3 Years

Roadside Assistance Packages:

Toyota Roadside Express

Number of Cars:

20

Create

[Return to Main Page](#) | [Logout](#)

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Confirmation

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## eBusiness: Product, Customer, and Order Management

### The car has been created. Details

Reference Number	Make	Model	Engine Type	Drive Type	Transmission	Fuel Type	Seats	Doors	Colour	Price	Warranty	Extending Warranty	Roadside Assistance	Number of Cars
N12345	Toyota	Land Cruiser 200	V8	4x4	Automatic	Diesel	7	5	Silver	100000.0	2 Years	3 Years	Toyota Roadside Express	20

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Create Used Car

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eBusiness: Product, Customer, and Order Management

Create Used Car

Reference Number:

U123456

Make:

Nissan

Model:

Juke

Engine Type:

4 Cylinder

Drive Type:

Front Wheels

Transmission:

Automatic

Fuel Type:

Petrol

Seats:

5

Doors:

5

Colour:

Red

Odometer:

150000

Rego Number:

123ABC

Rego Expiry:

Dec 2025

Service History:

This car has been ...

VIN:

VIN12345

Car History:

This car is ...

Price:

10999.00

Number of Cars:

1

Create

[Return to Main Page](#) | [Logout](#)

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Used Car Confirmation

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The car has been created. Details

Reference Number	Make	Model	Engine Type	Drive Type	Transmission	Fuel Type	Seats	Doors	Colour	Odometer	Rego Number	Rego Expiry	Service History	VIN	Car History	Price	Number of Cars
U123456	Nissan	Juke	4 Cylinder	Front Wheels	Automatic	Petrol	5	5	Red	150000	123ABC	Dec 2025	This car has been ...	VIN12345	This car is ...	10999.0	1

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7. Create a customer

Create Customer

Not secure cqu014304:8080/EBusinessCar12920687875871312176/protected/CreateCustomer.xhtml

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### Create Customer

Name:

Address:

Phone Number:

Email Address:

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Customer Confirmation

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### Customer Details

Customer Name	Address	Phone Number	Email Address
Wei Li	Bruce Highway Rockhampton, QLD, Australia	49309686	w.li@cqu.edu.au

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8. Check the brand-new car or used car stocks

Brand New Car Stock

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## eBusiness: Product, Customer, and Order Management

### Available Brand New Cars

Reference Number	Make	Model	Number of Cars	Details
N12345	Toyota	Land Cruiser 200	20	<a href="#">Check</a>
N54321	Toyota	Camry	30	<a href="#">Check</a>

Total Number of Brand New Cars: 2

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Used Car Stock

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## eBusiness: Product, Customer, and Order Management

### Available Used Cars

Reference Number	Make	Model	Number of Cars	Details
U123456	Nissan	Juke	1	<a href="#">Check</a>
U54321	Nissan	X-Trail	1	<a href="#">Check</a>

Total Number of Used Cars: 2

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9. List customers

Customer List

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### Customer List

ID	Name	Address	Phone Number	Email Address	Orders
1	Wei Li	Bruce Highway Rockhampton, QLD, Australia	49309686	w.li@cqu.edu.au	<a href="#">Check</a>
2	John Smith	238 Richardson Road, Rockhampton, QLD 4701, Australia	49309999	j.smith@gmail.com	<a href="#">Check</a>

Total Number of Customers: 2

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#### 10. Search for a brand-new car or used car

Search for Brand New Car

Not secure cqu014304:8080/EBusinessCar12920687875871312176/protected/BrandNewSearch.xhtml

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## eBusiness: Product, Customer, and Order Management

### Search for a Brand New Car by Reference Number

Enter Reference Number:

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Brand New Car Search Result

Not securecqu014304:8080/EBusinessCar12920687875871312176/protected/BrandNewSearch.xhtml

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## eBusiness: Product, Customer, and Order Management

### Search Result

Reference Number	Make	Model	Engine Type	Drive Type	Transmission	Fuel Type	Seats	Doors	Colour	Price	Warranty	Extending Warranty	Roadside Assistance	Number of Cars
N12345	Toyota	Land Cruiser 200	V8	4x4	Automatic	Diesel	7	5	Silver	100000.0	2 Years	3 Years	Toyota Roadside Express	20

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Search for a Used Car

Not securecqu014304:8080/EBusinessCar12920687875871312176/protected/UsedSearc...

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### Search for a Used Car by Reference Number

Enter Reference Number:

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Used Car Search Result

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## eBusiness: Brand New Car Search Result

### Search Result

Reference Number	Make	Model	Engine Type	Drive Type	Transmission	Fuel Type	Seats	Doors	Colour	Odometer	Rego Number	Rego Expiry	Service History	VIN	Car History	Price	Number of Cars
U123456	Nissan	Juke	4 Cylinder	Front Wheels	Automatic	Petrol	5	5	Red	150000	123ABC	Dec 2025	This car has been ...	VIN12345	This car is ...	10999.0	1

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## 11.Search for a customer

Customer Search

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### Search for a Customer

Customer Name:

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Customer Search Result

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## eBusiness: Product, Customer, and Order Management

### Search Results: Customers

ID	Name	Address	Phone Number	Email Address
1	Wei Li	Bruce Highway Rockhampton, QLD, Australia	49309686	w.li@cqu.edu.au

### Orders of Searched Customers

No orders found for the searched customers.

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## 12.Create an order

Note: before creating an order for the brand-new car *Land Cruiser 200*, the number of cars in stock is 20.

Brand New Car Stock

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## eBusiness: Product, Customer, and Order Management

### Available Brand New Cars

Reference Number	Make	Model	Number of Cars	Details
N12345	Toyota	Land Cruiser 200	20	<a href="#">Check</a>
N54321	Toyota	Camry	30	<a href="#">Check</a>

Total Number of Brand New Cars: 2

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Creating an order for the brand-new car

Create Order

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### Create Order

Select Customer:

Wei Li

Select Car:

Brand New: Toyota Land Cruiser 200 - 100000.0

Quantity:

1

Order

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Order Confirmation

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### Order Details

Order ID	Customer Name	Car	Quantity	Created Time
1	<a href="#">Wei Li</a>	<a href="#">Toyota Land Cruiser 200</a>	1	10:22:20 - 16/04/2025

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Note: after creating the order, the number of cars in stock is 19.

Brand New Car Stock

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## eBusiness: Product, Customer, and Order Management

### Available Brand New Cars

Reference Number	Make	Model	Number of Cars	Details
N12345	Toyota	Land Cruiser 200	19	<a href="#">Check</a>
N54321	Toyota	Camry	30	<a href="#">Check</a>

Total Number of Brand New Cars: 2

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13.List of car orders

Order List

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## eBusiness: Product, Customer, and Order Management

### All Orders

Order ID	Customer Name	Car	Quantity	Unit Price	Total Price	Created Time	Action
1	<a href="#">Wei Li</a>	<a href="#">Toyota Land Cruiser 200</a>	1	100000.0	100000.0	10:22:20 - 16/04/2025	<a href="#">Delete</a>
2	<a href="#">Wei Li</a>	<a href="#">Toyota Camry</a>	1	45000.0	45000.0	10:23:54 - 16/04/2025	<a href="#">Delete</a>
3	<a href="#">John Smith</a>	<a href="#">Nissan X-Trail</a>	1	33000.0	33000.0	10:24:29 - 16/04/2025	<a href="#">Delete</a>

Total Number of Orders: 3

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#### 14. Search for an order

Search for Order

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### Search for an Order by Order ID

Enter Order ID:

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Order Search Result

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## eBusiness: Product, Customer, and Order Management

### Search Result

Order ID	Customer Name	Car	Quantity	Unit Price	Total Price	Order Date
2	<a href="#">Wei Li</a>	<a href="#">Toyota Camry</a>	1	45000.0	45000.0	10:23:54 - 16/04/2025

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15.Delete an order

Note: before deleting the order of new car: Toyota Camry, the number of cars in stock is 29.

Brand New Car Stock

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## eBusiness: Product, Customer, and Order Management

### Available Brand New Cars

Reference Number	Make	Model	Number of Cars	Details
N12345	Toyota	Land Cruiser 200	19	<a href="#">Check</a>
N54321	Toyota	Camry	29	<a href="#">Check</a>

Total Number of Brand New Cars: 2

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Clicking the Delete link to delete the order of Camry (Order # 2)

Order List

Not secure
cqu014304:8080/EBusinessCar12920687875871312176/protected/OrderList.xhtml

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IEEE ACCESS: Impac...
Microservices
Java Platform, Stand...

Relaunch to update

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All Orders

Order ID	Customer Name	Car	Quantity	Unit Price	Total Price	Created Time	Action
1	<a href="#">Wei Li</a>	<a href="#">Toyota Land Cruiser 200</a>	1	100000.0	100000.0	10:22:20 - 16/04/2025	<a href="#">Delete</a>
2	<a href="#">Wei Li</a>	<a href="#">Toyota Camry</a>	1	45000.0	45000.0	10:23:54 - 16/04/2025	<a href="#">Delete</a>
3	<a href="#">John Smith</a>	<a href="#">Nissan X-Trail</a>	1	33000.0	33000.0	10:24:29 - 16/04/2025	<a href="#">Delete</a>

Total Number of Orders: 3

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The order has been deleted.

Order List

Not secure
cqu014304:8080/EBusinessCar12920687875871312176/protected/OrderList.xhtml

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COIT20257
COIT13235
IEEE ACCESS: Impac...
Microservices
Java Platform, Stand...

Relaunch to update

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All Orders

• Order deleted successfully.

Order ID	Customer Name	Car	Quantity	Unit Price	Total Price	Created Time	Action
1	<a href="#">Wei Li</a>	<a href="#">Toyota Land Cruiser 200</a>	1	100000.0	100000.0	10:22:20 - 16/04/2025	<a href="#">Delete</a>
3	<a href="#">John Smith</a>	<a href="#">Nissan X-Trail</a>	1	33000.0	33000.0	10:24:29 - 16/04/2025	<a href="#">Delete</a>

Total Number of Orders: 2

[Return to Main Page](#) | [Logout](#)

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Note: after deleting the order, the number of new cars Camry in stock of is 30.

Brand New Car Stock

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## eBusiness: Product, Customer, and Order Management

### Available Brand New Cars

Reference Number	Make	Model	Number of Cars	Details
N12345	Toyota	Land Cruiser 200	19	<a href="#">Check</a>
N54321	Toyota	Camry	30	<a href="#">Check</a>

Total Number of Brand New Cars: 2

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16. Check a customer's details including his/her orders

Customer List

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## eBusiness: Product, Customer, and Order Management

### Customer List

ID	Name	Address	Phone Number	Email Address	Orders
1	Wei Li	Bruce Highway Rockhampton, QLD, Australia	49309686	w.li@cqu.edu.au	<a href="#">Check</a>
2	John Smith	238 Richardson Road, Rockhampton, QLD 4701, Australia	49309999	j.smith@gmail.com	<a href="#">Check</a>

Total Number of Customers: 2

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Clicking the Check link

Customer Search Result

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⚠ Not secure

cqu014304:8080/EBusinessCar9473842385292145690/pr...

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Relaunch to update

📁

📁 COIT20259

📁 COIT20257

📁 COIT13235

📁 IEEE ACCESS: Impac...

📁 Microservices

»

📁 All Bookmarks

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## Search Results: Customers

ID	Name	Address	Phone Number	Email Address
2	John Smith	238 Richardson Road, Rockhampton, QLD 4701, Australia	49309999	j.smith@gmail.com

## Orders of Searched Customers

Order ID	Created Time	Car Make	Car Model	Quantity	Unit Price	Total Price
3	10:24:29 - 16/04/2025	Nissan	X-Trail	1	33000.0	33000.0

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