



CST4025

Blockchain Development

Week 7

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1 Introduction

Download the .bna file from the website. Open composer-playground in a compatible browser. Using this .bna file you can either upload it into playground, or extract individual files and cut and paste them appropriately. After uploading to composer playground, and logging in as Administrator complete the following:

1. Create some customer details:

- Enter the following values, 'C001', 'Andrei', '111', 'Wood St', 'E108UT' for 'customerID', 'Name', 'NameNumber', 'Street' and 'PostCode', respectively.
- Enter the following values, 'C002', 'Xu', '222', 'Station Rd', 'SE78HD' for 'customerID', 'Name', 'NameNumber', 'Street' and 'PostCode', respectively.

2. Create some restaurant details:

- Enter the following values, 'R001', 'Piece Of Pizza', '110', 'High St' and 'SE104BT' for 'poID', 'Name', 'NameNumber', 'Street' and 'PostCode', respectively.

- Enter the following values, 'R002', 'PizzaSlice', '220', 'High St' and 'SE222BT' for 'poID', 'Name', 'NameNumber', 'Street' and 'Post-Code', respectively.
3. Create some pizza details:
 - '0001', 'americana' for 'pID' and 'pizzaType', respectively.
 - '0002', 'carbonara' for 'pID' and 'pizzaType', respectively.
 - '0003', 'margherita' for 'pID' and 'pizzaType', respectively.
 4. Create some auditor details:
 - Enter the following value, 'P122A' for 'pqcID'.
 5. Enter the 'ID Registry' and create customers 'C1' and 'C2' for customers with ID's 'C001' and 'C002', respectively.
 6. Enter the 'ID Registry' and create pizzaOutlets 'R1' and 'R2' for customers with ID's 'R001' and 'R002', respectively.
 7. Using the transaction, 'placeOrder', create two new orders for the customer with 'customerID', 'C001'. The new orders should have the following details:
 - '1111', 'C001', '0001', 'R001' for 'orderID', 'Customer', 'pizza' and 'restaurant', respectively.
 - '1112', 'C001', '0003', 'R002' for 'orderID', 'Customer', 'pizza' and 'restaurant', respectively.
 8. Using the transaction, 'placeOrder', create two new orders for the customer with 'customerID', 'C002'. The new orders should have the following details:
 - '2221', 'C002', '0002', 'R001' for 'orderID', 'Customer', 'pizza' and 'restaurant', respectively.
 - '2222', 'C002', '0003', 'R002' for 'orderID', 'Customer', 'pizza' and 'restaurant', respectively.
 9. Alter the code to allow for multiple orders?

10. Alter the code to allow for toppings to be included in orders?
11. Can the restaurant change or view its orders. Alter the code to allow the restaurant to view the menu.
12. Alter the code to allow the restaurant to change its own menu.
13. Alter the code to allow a dispatch company to handle the delivery process
14. Alter the code to allow the quality auditor to view and read all the transactions.