Software Engineering Project

Requirements Analysis

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**Use Cases for Order Processing, Customer Accounts, Sales Rep**

Customer Account Use Cases

Use Case #1

|  |  |
| --- | --- |
| Use Case Name | Create new standing order |
| Related Requirement | Must know item names and quantities |
| Goal in context | Successfully creates standing order |
| Pre-Conditions | User must log in and have permissions create standing order |
| Successful end conditions | User successfully creates a standing order |
| Fail end condition | User is unable to create a standing order |
| Primary Actor | Customer |
| Secondary Actor | Office worker |
| Main Flow | 1. User Opens application 2. Opens Standing order module 3. Select create new standing order 4. Enter info 5. Save |
| Evaluation | Service:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/standingorder/200537/198990  Parameters: standing order ID and token  Operation: POST  Result: Successful |

Use Case #2

|  |  |
| --- | --- |
| Use Case Name | Create new order |
| Related Requirement | Must know item names and quantities |
| Goal in context | Successfully creates order |
| Pre-Conditions | User must log in and have permissions create order |
| Successful end conditions | User successfully creates an order |
| Fail end condition | User is unable to create an order |
| Primary Actor | Customer |
| Secondary Actor | Office worker |
| Main Flow | 1. User Opens application 2. Opens order module 3. Select create new order 4. Enter info 5. Save |
| Evaluation | Service: 64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/order/200537/198990  Operation: POST  Parameters: Customer ID and token  Result: Successful |

Use Case #3

|  |  |
| --- | --- |
| Use Case Name | Edit new order |
| Related Requirement | Must know order number, item names and quantities |
| Goal in context | Successfully edits order |
| Pre-Conditions | User must log in and have permissions edit order |
| Successful end conditions | User successfully edits an order |
| Fail end condition | User is unable to edit an order |
| Primary Actor | Customer |
| Secondary Actor | Office worker |
| Main Flow | 1. User Opens application 2. Opens order module 3. Select edit order 4. Enter order number 5. Make changes 6. Save |
| Evaluation | Service not tested |

Use Case #4

|  |  |
| --- | --- |
| Use Case Name | Edit standing order |
| Related Requirement | Must know item names, quantities, standing order date |
| Goal in context | Successfully edits standing order |
| Pre-Conditions | User must log in and have permissions edit standing order |
| Successful end conditions | User successfully edits a standing order |
| Fail end condition | User is unable to edits a standing order |
| Primary Actor | Customer |
| Secondary Actor | Office worker |
| Main Flow | 1. User Opens application 2. Opens Standing order module 3. Searches for Standing order 4. Selects standing order 5. Edits standing order 6. Save |
| Evaluation | Service: 64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/standingorders/100017/198990  JSON String:  {"OrderNO":"118264","CustNo":"100017","Totalitems":"2","Totaldiscount":"2","Status":"Y", "Standing\_Order":"Y", "Standing\_day":"SAT", "Created\_Date":"12/18/2003"}  Operation: POST  Result: Unsuccessful |

Use Case #5

|  |  |
| --- | --- |
| Use Case Name | View Accounts information |
| Related Requirement | User must log in |
| Goal in context | User successfully views account information |
| Pre-Conditions | User must log in ,account must be exiting |
| Successful end conditions | User successfully views account information |
| Fail end condition | User is unable to view account information |
| Primary Actor | Customer |
| Secondary Actor | - |
| Main Flow | 1. User Opens application 2. Selects account information |
| Evaluation | No service currently available |

Use Case #5

|  |  |
| --- | --- |
| Use Case Name | Edit Account information |
| Related Requirement | User must log in |
| Goal in context | User successfully edits account information |
| Pre-Conditions | User must log in , account must be exiting |
| Successful end conditions | User successfully views account information |
| Fail end condition | User is unable to view account information |
| Primary Actor | Customer |
| Secondary Actor | - |
| Main Flow | 1. User Opens application 2. Selects account information 3. Selects edit information 4. Makes changes 5. Save |
| Evaluation | No service currently available |

Order Processing Use Cases

Use Case #1

|  |  |
| --- | --- |
| Use Case Name | Create Customer |
| Related Requirement | Must know Customer name |
| Goal in context | Successful creation of a customer |
| Pre-Conditions | Must have access to create customers |
| Successful end conditions | User creates a customer successfully |
| Fail end condition | User unsuccessfully creates a customer |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects Customer module 3. Select create customer 4. Enter customer info 5. Save |
| Evaluation | Service:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/customer/12221  Parameters: token  JSON String: {“COMPANY”:”Test Bakery”}  Operation: PUT  Result: Successful |

Use Case #2

|  |  |
| --- | --- |
| Use Case Name | Create standing order |
| Related Requirement | Must know standing order day, items and quantity |
| Goal in context | Successful creation of standing order |
| Pre-Conditions | Must have customer information and access to create standing orders |
| Successful end conditions | User creates standing order successfully |
| Fail end condition | User unsuccessfully creates standing order |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects Standing order module 3. Select create standing order 4. Enter standing order info 5. Save |
| Evaluation | Service:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/standingorder/200537/198990  Parameters: standing order ID and token  JSON String: All parameters needed for standing order  Operation: POST  Result: Successful |

Use Case #3

|  |  |
| --- | --- |
| Use Case Name | Generate standing order |
| Related Requirement | Must know standing order day, production date |
| Goal in context | Successful generation of standing order |
| Pre-Conditions | Must have a standing order day and a production date |
| Successful end conditions | User generates standing order successfully |
| Fail end condition | User unsuccessfully generates standing order |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects Standing order module 3. Select generate standing order 4. Enter standing order info |
| Evaluation | Service:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/standingorders/generate/198990  Parameters: Token  JSON String: {"Standingday":"WED" , "productiondate":"11/7/2014"}  Operations:POST operation  Testing Result: Successful |

Use Case #4

|  |  |
| --- | --- |
| Use Case Name | View generated standing order |
| Related Requirement | Must know standing order day, production date |
| Goal in context | Successful viewing of generated standing order |
| Pre-Conditions | Must have customer information and access to create standing orders |
| Successful end conditions | User views standing order successfully |
| Fail end condition | User unsuccessfully generates standing order |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects Standing order module 3. Select generatestanding order 4. Enter standing order info |
| Evaluation | Service:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/standingorders/100017/198990  Operations: GET operation  Parameter: Customer ID, token  Testing Result: Successful |

Use Case #5

|  |  |
| --- | --- |
| Use Case Name | Modify standing order |
| Related Requirement | Must know customer name, sales trends/reports, item names and quantities |
| Goal in context | Successfully edits standing order |
| Pre-Conditions | User must log in and have permissions edit standing order |
| Successful end conditions | User successfully edits a standing order |
| Fail end condition | User is unable to edits a standing order |
| Primary Actor | Customer |
| Secondary Actor | Office worker |
| Main Flo | 1. User Opens application 2. Opens Standing order module 3. Enters customer to search for 4. Select customer 5. Select standing order for customer 6. Edit info 7. Save |
| Evaluation | Service: 64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/standingorders/100017/198990  JSON String:  {"OrderNO":"118264","CustNo":"100017","Totalitems":"2","Totaldiscount":"2","Status":"Y", "Standing\_Order":"Y", "Standing\_day":"SAT", "Created\_Date":"12/18/2003"}  Operation: POST  Parameter: Customer ID, token  Result: Unsuccessful, the above JSON string and operation was used. |

Use Case #6

|  |  |
| --- | --- |
| Use Case Name | View all standing orders for a customer |
| Related Requirement | Must know standing order day, production date |
| Goal in context | Successful viewing of generated standing order |
| Pre-Conditions | Must have customer id and access to view orders orders |
| Successful end conditions | User views standing order successfully |
| Fail end condition | User unsuccessfully generates standing order |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects Standing order module 3. Select generatestanding order 4. Enter standing order info |
| Evaluation | Service: 64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/standingorders/100017/198990  Operations: GET operation  Parameter: Customer ID, token  Testing Result: Successful |

Use case #7

|  |  |
| --- | --- |
| Use Case Name | Create new order |
| Related Requirement | Must know customer ID |
| Goal in context | Successful creation of order |
| Pre-Conditions | Must have customer information and access to create order |
| Successful end conditions | User creates order successfully |
| Fail end condition | User unsuccessfully creates order |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects order module 3. Select create new order 4. Enter order info 5. Save |
| Evaluation | Service: 64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/order/200537/198990  Operation: POST  Parameters: Customer ID and token, token  Result: Successful |

Use case #8

|  |  |
| --- | --- |
| Use Case Name | Generate a selected order |
| Related Requirement | Must know order day, items and quantity |
| Goal in context | Successful creation of order |
| Pre-Conditions | Must have customer information and access to create order |
| Successful end conditions | User creates order successfully |
| Fail end condition | User unsuccessfully creates order |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects order module 3. Select create new order 4. Enter order info 5. Save |
| Evaluation | Service: 64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/standingorders/generateselested/198990  Operation: POST  Parameters: production date, order number, token  Result: Successful |

Use Case #9

|  |  |
| --- | --- |
| Use Case Name | Generate orders for a day |
| Related Requirement | Must know order days, |
| Goal in context | Successful generation of orders |
| Pre-Conditions | Must have orders existing |
| Successful end conditions | User generates orders successfully |
| Fail end condition | User unsuccessfully generates orders |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects order module 3. Select generate orders 4. Enter orders’ criteria 5. Generate |
| Evaluation | Service to view orders:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/orders/WED/198990  Operation: GET  Parameters : order day, token  Service was successfully tested |

Use Case #10

|  |  |
| --- | --- |
| Use Case Name | Delete all orders for a day |
| Related Requirement | Must know order day |
| Goal in context | Successful deletion of orders for a day |
| Pre-Conditions | Must have orders already existing |
| Successful end conditions | User deletes orders successfully |
| Fail end condition | User unsuccessfully deletes orders |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects order module 3. Select delete orders 4. Enter orders’ deletion day 5. Deletes orders |
| Evaluation | Service to delete orders:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/standingorders/deleteorders/198990  JSON String : {“Standingday”:”WED”}  Operation: POST  Parameters: standing order day, token  Result: Successful |

Use Case #11

|  |  |
| --- | --- |
| Use Case Name | Delete an item |
| Related Requirement | Must know item name |
| Goal in context | Successful deletion of item |
| Pre-Conditions | Must have items already existing |
| Successful end conditions | User deletes item successfully |
| Fail end condition | User unsuccessfully deletes item |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects order module 3. Select delete orders 4. Enter orders item 5. Deletes order item |
| Evaluation | Service to delete an item:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/standingorders/deleteitem/198990  JSON String: {“itemcode”:”BUNS”}  Operation: DELETE  Parameters: standing order day, token  Result: Successful |

Use Case #12

|  |  |
| --- | --- |
| Use Case Name | Delete an item from a standing order |
| Related Requirement | Must know item name and order number |
| Goal in context | Successful deletion of item |
| Pre-Conditions | Must have items and standing order already existing |
| Successful end conditions | User deletes item successfully |
| Fail end condition | User unsuccessfully deletes item |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects order module 3. Select delete orders 4. Enter orders’ deletion day 5. Deletes orders |
| Evaluation | Service to delete orders:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/sitem/ordernumber/itemname/198990  Operation: DELETE  Parameters: ordernum, item name, token  Result: Successful |

Use Case #13

|  |  |
| --- | --- |
| Use Case Name | Retrieve Items for an order |
| Related Requirement | Must know order number |
| Goal in context | Successful retrieval of items on an order |
| Pre-Conditions | Must have orders already existing |
| Successful end conditions | User retrieves items successfully |
| Fail end condition | User unsuccessfully retrieves items |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects order module 3. Select items 4. Enter order item |
| Evaluation | Service to delete orders:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/sitems/119011/198990  Operation: GET  Parameters: Order number (119011 used), token  Result: Successful |

Use Case #14

|  |  |
| --- | --- |
| Use Case Name | Delete an item from an order |
| Related Requirement | Must know item name and order number |
| Goal in context | Successful deletion of item |
| Pre-Conditions | Must have items and order already existing |
| Successful end conditions | User deletes item successfully |
| Fail end condition | User unsuccessfully deletes item |
| Primary Actor | Office Worker |
| Secondary Actor | Manager |
| Main Flow | 1. User Opens application 2. Selects order module 3. Select delete orders 4. Enter orders’ deletion day 5. Deletes orders |
| Evaluation | Service to delete orders:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/sitem/118809/BUNS/198990  Operation: DELETE  Parameters: ordernum (118809), item name (BUNS), token  Result: Successful |

Sales Rep Use Cases

Use Case #1

|  |  |
| --- | --- |
| Use Case Name | Search for a customer |
| Related Requirement | Must know part of the customer name |
| Goal in context | Successfully finds customer |
| Pre-Conditions | User must have permissions to search for customer and customer must exist |
| Successful end conditions | User successfully edits a standing order |
| Fail end condition | User is unable to edits a standing order |
| Primary Actor | Sales Rep |
| Secondary Actor | Office worker |
| Main Flow | 1. User Opens application 2. Opens Customer search 3. Enter customer name string |
| Evaluation | Service:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/customers/Jo/198990  Operation: GET  Parameters: Customer name string, token  Result: Successful |

Use Case #2

|  |  |
| --- | --- |
| Use Case Name | View all items for a standing order |
| Related Requirement | Must know standing ordernumber |
| Goal in context | Successfully views items on standing order |
| Pre-Conditions | User must have permissions to view standing order |
| Successful end conditions | User successfully views a standing order |
| Fail end condition | User is unable to views a standing order |
| Primary Actor | Customer |
| Secondary Actor | Office worker |
| Main Flow | 1. User Opens application 2. Opens Standing order module 3. Selects items 4. Enters standing order number |
| Evaluation | Service:  64.28.139.185/akipro/orders.dll/datasnap/rest/TOrderProcess/sitems/118809/198990  Operation: GET  Parameters: Standing order number, token  Result: Successful |

Use Case #3

|  |  |
| --- | --- |
| Use Case Name | Request to modify standing order |
| Related Requirement | Must know customer name, sales trends/reports, item names and quantities |
| Goal in context | Successfully edits standing order |
| Pre-Conditions | User must log in and have permissions edit standing order |
| Successful end conditions | User successfully edits a standing order |
| Fail end condition | User is unable to edits a standing order |
| Primary Actor | Customer |
| Secondary Actor | Office worker |
| Main Flow | 1. User Opens application 2. Opens Standing order module 3. Enters customer to search for 4. Select customer 5. Select standing order for customer 6. Edit info 7. Save |
| Evaluation | Service not tested/available |

Use Case #4

|  |  |
| --- | --- |
| Use Case Name | Generate reports |
| Related Requirement | Must know customer name, item name, sales date range |
| Goal in context | Successfully generates Reports |
| Pre-Conditions | User must log in and have permissions generate reports |
| Successful end conditions | User successfully generates a report |
| Fail end condition | User is unable to generate a report |
| Primary Actor | Sales Rep |
| Secondary Actor | - |
| Main Flo | 1. User Opens application 2. Open Report module 3. Select trend report type 4. Select customer 5. Enter report criteria |
| Evaluation | Service: 64.28.139.185/akipro/reports.dll/datasnap/rest/TReportProcess/report/198990  Operation: PUT  JSON String: {"asatdate": "1/11/2014","bodytext": "","enddate": "20/11/2014","keyvalue": "","numberpara1": "1","numberpara2": "","numberpara3": "","outputformat": "pdf","sendbyemail": "","sendtoaddress": "","startdate": "1/1/2002","stringpara1": "1","stringpara2": "","stringpara3": "","subject": "","token": 53582}  Parameter: Token  Result: Successful |

Use Case #5

|  |  |
| --- | --- |
| Use Case Name | View generated report |
| Related Requirement | Must know report number |
| Goal in context | Successfully generates Reports |
| Pre-Conditions | User must have permissions view reports and must know token of generated report |
| Successful end conditions | User successfully views generated report |
| Fail end condition | User is unable to view generated report |
| Primary Actor | Sales Rep |
| Secondary Actor |  |
| Main Flo | 1. User Opens application 2. Open Report module 3. Select trend report type 4. Select customer 5. Enter report criteria |
| Evaluation | Service:  64.28.139.185/akipro/reports.dll/datasnap/rest/TReportProcess/report/1/53582  Operation: GET  Parameter : token( token must be token of generated report) {"asatdate": "1/11/2014","bodytext": "","enddate": "20/11/2014","keyvalue": "","numberpara1": "1","numberpara2": "","numberpara3": "","outputformat": "pdf","sendbyemail": "","sendtoaddress": "","startdate": "1/1/2002","stringpara1": "1","stringpara2": "","stringpara3": "","subject": "","token": 53582}  Result: Successful |