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[Accsolve]

Req5

Invoice GENERATION

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## Version control

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| Version Number | Comments | Date |
| 1.0 | Initial Draft | 14/11/2019 |
| 1.1 | Update API and fields information in section 4.4 | 15/11/2019 |

## Invoice Generation

User can generate invoices for un-associated income and expenses available on Inventory screen if product is not in sold state.

When user is on inventory page he can add an income or an expense to an existing service. Any income can be associated to a bank transaction if available. User can also upload invoice soft copy for income or expense. Income or Expense can be cost of the product, part of service. In some cases user wants to generate invoice for an individual income or expense or group of income or expense or overall invoice on a inventory product. To achieve this we need three types of user actions (buttons) on UI screen which needs to be integrated with APIs.

1. Invoice generation for one Income or group of incomes
2. Invoice generation for one expense or group of expenses
3. Invoice generation for overall product

## Income invoice generation

### Create a button on top of income table if product has one or more incomes.

Given user is on Inventory details page

When Income table has one are more entries

Then user should see an invoice generation button, aligned to right, on top of income table

### Create income invoice generation page

Given user is on Inventory details page

When user selects generate invoice button

User should be see all list of all available incomes on an income invoice generation screen with a select option

Given when user is on Income invoice generation page

When user selects one or more incomes

Then generate button should be enabled

Given when user is on income invoice generation page

When user selects generate button

Then user should be presented inventory details page

Steps to perform :

1. Create a Income invoice generation screen and launch this screen on selection of Generate invoice button on income table
2. User following API to fetch all eligible incomes and show with on the screen with a check box

[**/inventory/product/{inventoryid}/property/{incexp}**](http://13.235.71.133:8092/swagger-ui.html#/operations/inventory-controller/getEligibleIncomeExpenseUsingGET)

1. Add a Generate button on the screen and enable if one or more incomes are selected on the screen
2. On selection of Generate button call below API to submit al incomes

[**/invoice/income**](http://13.235.71.133:8092/swagger-ui.html#/operations/invoice-controller/generateIncomeInvoiceUsingPOST)

1. Successful response should launch inventory details page
2. Error message should be displayed onscreen
3. Create a link to navigate back to inventory details page

Note: We have a history stack in the react code use this stack navigate back and forth

## Expense invoice generation

### Create a button on top of income table if product has one or more expenses.

Given user is on Inventory details page

When expense table has one are more entries

Then user should see an invoice generation button, aligned to right, on top of expense table

### Create expense invoice generation page

Given user is on inventory details page

When user selects generate invoice button

User should be see all list of all available expenses on an expense invoice generation screen with a select option

Given when user is on expense invoice generation page

When user selects one or more expense

Then generate button should be enabled

Given when user is on expense invoice generation page

When user selects generate button

Then user should be presented inventory details page

Steps to perform :

1. Create a expense invoice generation screen and launch this screen on selection of generate invoice button on income table
2. User following API to fetch all eligible expenses and show with on the screen with a check box

[**/inventory/product/{inventoryid}/property/{incexp}**](http://13.235.71.133:8092/swagger-ui.html#/operations/inventory-controller/getEligibleIncomeExpenseUsingGET)

1. Add a Generate button on the screen and enable if one or more incomes are selected on the screen
2. On selection of Generate button call below API to submit al incomes

**/invoice/expense**

1. Successful response should launch inventory details page
2. Error message should be displayed onscreen
3. Create a link to navigate back to inventory details page

Note: We have a history stack in the react code use this stack navigate back and forth

## Product invoice generation

### Create a buttons below income expense tables to generate purchase and sale invoices

Given user is on inventory details page

When inventory product has more then one income or expense

Then show two buttons below the income/expense tables to generate purchase invoice and sale invoice

### Generate purchase invoice

Given user is on inventory details page

When user selects generate purchase invoice

Then post purchase invoice details and reload the page upon successful response

Use below API to post purchase invoice

[**/invoice/product/purchase**](http://13.235.71.133:8092/swagger-ui.html#/operations/invoice-controller/generateProductPurchaseInvoiceUsingPOST)

### Generate sale invoice

Given user is on inventory details page

When user selects generate sale invoice

Then post purchase invoice details and reload the page upon successful response

Use below API to post purchase invoice

[**/invoice/product/sale**](http://13.235.71.133:8092/swagger-ui.html#/operations/invoice-controller/generateProductSoldInvoiceUsingPOST)

### Show links for purchase and sale invoices

Given user is on inventory details page

When product response has a download link

Then display the link as invoice below the income/expense table

GET [**/inventory/details/{inventoryid}**](http://localhost:8092/swagger-ui.html#/operations/inventory-controller/getInventoryProductUsingGET)

downloadUri -> sale invoice

purchaseUri -> purchase invoice

## Show Complete sale button

### 5.1 Show Complete sale button

Given user is on inventory details page

When product response has a download link

And download link is not empty

Then display the Complete sale button on the screen aligned bottom centre

Given user is on inventory details page

When user selects Complete sale

Then post sale information

And reload the inventory details page upon successful response

[**/inventory/{inventoryid}/sale**](http://13.235.71.133:8092/swagger-ui.html#/operations/inventory-controller/updateInventoryAsSoldUsingPUT)

Given user is on inventory details page

When inventory product response has state as sold

Then disable all buttons except Complete sale

And change name of Complete sale to Cancel sale

Given user is on inventory details page

When inventory details page if user selects Cancel sale button

Then post information

And reload the page upon successful response

[**/inventory/{inventoryid}/sale/cancel**](http://13.235.71.133:8092/swagger-ui.html#/operations/inventory-controller/cancelInventorySaleUsingPUT)

## Add customer journey

Given user is on inventory details page

Or user is on income invoice screen

Or user is on expense invoice screen

Then show a drop down of customers to select one

And a button to create a new customer

Use below API to populate list of customers

GET [**/customer/all**](http://localhost:8092/swagger-ui.html#/operations/customer-controller/getAllCusotmerUsingGET)

Given user is on inventory details page

Or user is on income invoice screen

Or user is on expense invoice screen

Then show a button to add new customer

Given user is on inventory details page

Or user is on income invoice screen

Or user is on expense invoice screen

When user selects add new customer button

Then show a screen to enter new customer details (like add new user)

And on selection of add button post customer details

POST [**/customer**](http://localhost:8092/swagger-ui.html#/operations/customer-controller/addCusotmerUsingPOST)