**EBIASHARA SCF API ENDPOINT DEFINITION**

**MAKE DECISIONS**

What Users?

What functionalities?

What Endpoints?

What resources?

Which CRUD Operations?

**DECISIONS**

1. Decisions A
2. Who has CREATE functions ?
3. Who has READ functions ?
4. Who has UPDATE functions ?
5. Who has DELETE functions ?
6. Who has EDIT functions ?
7. Decisions B
8. Which user can CREATE which type of data ?
9. Which user can READ which type of data ?
10. Which user can UPDATE which type of data ?
11. Which user can DELETE which type of data ?
12. Which user can EDIT which type of data ?

**RESOURCES**

* Company Profile
* Invoice
* Invoice statement
* Settlement instruction
* Payments ledger
* IFR
* IDR
* Contracts
* EB Users and admin
* Bank users and admin
* Buyer users and admin
* Buyer Company Profile
* Supplier users and admin
* Financier Company Profile
* Seller Company Profile

**API ENDPOINTS FUNCTIONALITIES**

**USERS**

* POST /users
* UPDATE /users
* GET /users/{userId}
* DELETE /users/{userId}

**COMPANY**

* POST /company
* UPDATE /*company*/{cmpanyId}
* GET /company/{companyId}
* DELETE /company/{companyId}

**PROFILE PHOTO**

* POST /photo
* GET /photo/{photoId}
* DELETE /photo/{photoId}
* PUT /photo/{photoId}

**IDR**

* POST /IDR
* GET /IDR/{IDRId}
* DELETE /IDR/{IDRId}
* PUT /IDR/{IDRId}

**IFR**

* POST /IFR
* GET /IFR/{IFRId}
* DELETE /IFR/{IFRId}
* PUT /IFR/{IFRId}

CONTRACTS

**User roles and their CRUD functionalities**

**SCF USERS**

1. EB
   1. EB Admin
   2. EB User
2. Bank/Financier
   1. bank admin
   2. bank users
3. Suppliers/Seller
   1. Supplier Admin
   2. Supplier User
4. Buyer
   1. Buyer Admin
   2. Buyer User

**CRUD OPERATIONS**

1. CREATE
2. READ
3. DELETE
4. UPDATE
5. PATCH
6. EB
   1. EB Admin
      1. CREATE USER and COMPANIES PROFILES of FINANCIERS, BUYERS AND SELLERS
      2. CREATE CONTRACTS between FINANCIER, BUYER AND SELLER entities
      3. CREATE SETTLEMENT INSTRUCTIONS (system generated)
      4. READ all DATA except passwords
      5. DELETE any/all USERS and COMPANY PROFILES
      6. UPDATE any/all USERS and COMPANY PROFILES
      7. UPDATE CONTRACTS

**EB Admin CRUD Operations**

* CREATE /companyBuyer
* CREATE /seller
* CREATE /financier
* CREATE /contracts
* READ /companyBuyers
* READ /companyBuyers/{companyBuyerId}
* READ sellers / {sellerId}
* READ financiers/ {financierId}
* UPDATE /companyBuyer/{companyBuyerId}
* UPDATE sellers/{sellerId}
* UPDATE financiers/ {financierId}
* UPDATE /*contract*/contractId
* DELETE companyBuyers/{companyBuyerId}
* DELETE sellers{sellerId}
* DELETE financiers/{financierId}
* READ /Invoices
* READ / Invoices/ {invoiceId}
* READ / IDR
* READ / IFR
* READ /*IDR*/{IDRId}
* READ /*IFR*/{IFRId}
* READ / settlementInstructions
* READ / settlementInstrutions / {settlementInstrutionId}
  1. **EB User**
     1. READ USER
     2. READ COMPANY PROFILES,
     3. READ IDR’S/IFR’S,
     4. READ CONTRACTS,
     5. READ DOCUMENT (invoices, invoice statement) and
     6. READ SETTLEMENT INSTRUCTION

**EB User Endpoint definition**

* READ /companyBuyer
* READ /seller
* READ /financier
* READ /Contracts
* READ /Invoices
* READ / IDR
* READ / IFR
* READ /*IDR*/{IDRId}
* READ /*IFR*/{IFRId}
* READ / Invoices/ {invoiceId}
* READ / settlementInstructions
* READ / settlementInstrutions / {settlementInstrutionId}

1. **Bank/Financier user**
   1. bank admin
      1. CREATE USER and COMPANIES PROFILES of BANK USERS, BUYERS AND SELLERS that are linked/tied with the FINANCIER
      2. READ COMPANY PROFILES of BUYERS AND SELLERS that the BANK is tied with/linked to.
      3. READ IDR’s and IFR’s created by BUYERS/SUPPLIERS
      4. READ DOCUMENTS (contracts, invoices, invoice statement) and SETTLEMENT INSTRUCTIONS that are tied to the BANK COMPANY PROFILE
      5. DELETE only BUYER, SUPPLIER and BANK USER profiles tied to the BANK. DELETE COMPANY PROFILES of BUYERS and SELLERS the bank is tied to.
      6. UPDATE BANK, BUYER or SELLER COMPANY {profileId}s tied to the Bank as well as USER PROFILES of BUYERS and SELLERS tied to the Bank.
      7. UPDATE CONTRACTS between BUYERS and SELLERS that are tied to the BANK COMPANY PROFILE ONLY

**Bank Admin CRUD operations**

* CREATE /{profileId}
* CREATE */ {profileId}/ user*
* *CREATE / {profileId}/ seller*
* *CREATE / {profileId}/ buyer*
* *READ /{profileId}*
* *READ / {profileId}/{userId}*
* *READ / {profileId}/{sellerId}*
* *READ / {profileId}/{buyerId}*
* *READ / contracts*
* *READ /invoices*
* *READ /invoiceStatements*
* *READ / settlementInstructions*
* *PATCH / {profileId}/settlementInstructions*
* *PATCH / {profileId}/contracts*
* *UPDATE / {profileId}/{userId}*
* *UPDATE / {profileId}/{sellerId}*
* *UPDATE / {profileId}/{buyerId}*
* *DELETE / {profileId}/{userId}*
* *DELETE / {profileId}/{sellerId}*
* *DELETE / {profileId}/{buyerId}*
* *UPDATE /contract/{contractId}*

*Add contracts and documents*

* 1. **bank users**
     1. READ IDR’s and IFR’s created by BUYERS/SUPPLIERS tied to the BANK COMPANY PROFILE
     2. READ COMPANY PROFILES of BUYERS and SELLERS tied to the BANK COMPANY PROFILE
     3. READ DOCUMENTS (Contracts, Invoice and Invoice Statements) and SETTLEMENT INSTRUCTIONS tied to their BANK COMPANY PROFILE
     4. UPDATE PERSONAL USER profile

**Bank user CRUD operations**

* *READ /{profileId}/{userId}*
* *READ / {profileId}/{IDRId}*
* *READ / {profileId}/{IFRId}*
* *READ / invoices*
* *READ / contracts*
* *READ / invoiceStatements*
* *UPDATE / {profileId}/{userId}*

1. **Suppliers**
   1. **Supplier Admin**
      1. CREATE USER PROFILES of SELLERS that are linked/tied with the COMPANY
      2. CREATE IDR’s, INVOICES and INVOICE STATMENT
      3. READ personal COMPANY PROFILE and USER PROFILE of SELLERS that tied to the COMPANY
      4. READ IDR’s, INVOICES and INVOICE STATEMENTS created by SUPPLIER USER’S tied to the COMPANY
      5. READ partial data of CONTRACTS (NO READ of BUYER’s Bank Details)
      6. DELETE SUPPLIER USERS tied to the COMPANY.
      7. UPDATE SELLER USER {profileId}’s tied to the Company.
      8. UPDATE IDR’s (NOT INVOICES) they have created or their USER’s created

**Supplier admin CRUD operations**

* CREATE */ {profileId}/ seller*
* *CREATE /IDR*
* *READ /{profileId}/sellers*
* *READ / {profileId}/{sellerId}*
* *READ / {profileId}/IDRs*
* *READ / {profileId}/invoices*
* *READ / {profileId}/ invoiceStatements*
* *READ / {profileId}/ contracts*
* *READ / {profileId}/suppliers*
* *READ / {profileId}/{supplierId}*
* *UPDATE / {profileId}/{sellerId}*
* *UPDATE / {profileId}/{IDRId}*
* *DELETE / {profileId}/{supplierId}*
  1. **Supplier User**
     1. CREATE IDR’s and IDR documents (INVOICES)
     2. READ IFR’s only they have personally created
     3. READ INVOICES and INVOICE STATEMENTS ties to the COMPANY
     4. UPDATE personal USER PROFILES
     5. NO DELETE allowed

**Supplier user CRUD operations**

* *CREATE / profileId}/IDR*
* *READ /{profileId}/IDRs*
* *READ / {profileId}/{IDRId}*
* *READ / {profileId}/ invoices*
* *READ / {profileId}/ invoiceStatements*
* *READ / {profileId}/ {invoiceStamentId}*
* *READ / {profileId}/{userId}/IDRs*
* *READ / {profileId}/{supplierId}*
* *UPDATE / {profileId}/{sellerId}*

1. **Buyer**
   1. Buyer Admin
      1. CREATE USER PROFILES of BUYERS that are linked/tied with the COMPANY
      2. CREATE IFR’s
      3. READ personal COMPANY PROFILE and USER PROFILE of BUYERS that tied to the COMPANY
      4. READ IFR’s created by BUYERS USER’S tied to the COMPANY
      5. READ CONTRACTS with linked BANKS and SELLERS
      6. READ DOCUMENTS (invoices, invoice statements) CREATES by BUYER USERS tied to the COMPANY.
      7. DELETE BUYER USERS tied to the COMPANY.
      8. UPDATE BUYER USER profiles tied to the COMPANY.
      9. UPDATE IFR’S (NOT INVOICES) they have created or their USER’s created

**Buyer admin CRUD operations**

* CREATE */ {profileId}/ user*
* *CREATE / profileId}/IFR*
* *READ /{profileId}/{userId}*
* *READ / {profileId}/{IFRId}*
* *READ / {profileId}/ contracts*
* *READ / {profileId}/invoices*
* *READ /{profileId}/invoices/ {invoiceId}*
* *READ / {profileId}/{userId}/IDRs*
* *READ / {profileId}/{buyerId}*
* *DELETE / {profileId}/{buyerId}*
* *UPDATE / {profileId}/{buyerId}*
* *UPDATE / {profileId}IFRs/{IFRId}*
  1. **Buyer User**
     1. CREATE IFR’s and IFR documents (INVOICES)
     2. READ IFR’s only they have personally created
     3. READ INVOICES and INVOICE STATEMENTS ties to the COMPANY
     4. UPDATE personal USER PROFILES
     5. NO DELETE allowed

**Buyer user CRUD operations**

* *CREATE / {profileId}/{userId}/IFR*
* *READ /{profileId}/{userId}/IFRs*
* *READ /{profileId}/invoices*
* *READ /{profileId}/invoices/ {invoiceId}*
* *READ /{profileId}/invoices/invoiceStatements*
* *READ / {profileId}/userId/{IFRId}*
* *READ / {companyBuyerId} /IFR*
* *READ / {profileId}/{userId}/IDRs*

NOTES:

CONTRACTS CANNOT be DELETED

CONTRACTS can ONLY be UPDATED by BANK ADMIN or EB ADMIN

DOCUMENTS CANNOT be DELETED or UPDATED

BUYER, SELLER, BANK and EB USERS cannot CREATE their own accounts (IN PHASE 1)

IDR’s and IFR’s CANNOT be DELETED only UPDATED by an ADMIN USER