#### **TFCONNECT PORTAL CONCEPT MAP**

#### **1. Portal Overview**

* **Purpose**: Facilitates domestic and international trade for corporate clients
* **Key Users**: Corporate Clients, Bank.

#### **2. Core Modules**

* **Transaction Types**:
  + LC (Letter of Credit)
  + BG (Bank Guarantee)
  + LC Amendment
  + BG Amendment
  + Remittance
  + H2H Transfer
  + FIDB Margin
  + Regeneration of Documents
* **Approval Workflows**:
  + Maker (Corporate Client initiates transaction)
  + Checker (Corporate Client verifies the transaction)
  + Bank (Final approval/rejection)

#### **3. Key features & Processes**

* AD to AD Transfer (Foreign Currency Transfer)
* Customer wants to do foreign to foreign transactions.
* **Report Generation**:
  + FTR (Successful Transactions)
  + FTNR (Rejected Transactions)
* **Document Management**:
  + Regeneration of Documents
  + Document Generation at CBS Checker Level
* **Margin Handling**:
  + Pre-book and Post-book Deals (FIDB Margin)
* **Foreign Currency Transfer (AD to AD Transfer)**:
  + Foreign to Foreign Currency Transactions
  + Beneficiary Details and Payment Gateway
* **Custom Modules**:
  + H2H Module for Motherson Sumi Systems (Custom Validation)
  + Amendments for LC/BG Transactions
* **Transaction Flows**:
  + Maker-Checker Workflow
  + Approval/Rejection Process
  + Status Code Tracking (every flow status codes will be tracked and changing the when workflow is going on )

#### **4. Data Management & Validation**

* **Database**:
  + Beneficiary Master Table
  + Transaction Data (Status Codes, Approvals, Rejections)
* **Validation**:
  + Data Integrity Checks
  + Error Handling and Rejection Reasons

#### **5. System Communication**

* **Automated Notifications**:
  + Success/Failure Emails at each transaction stage
* **Reporting**:
  + FTR and FTNR Reports (Generated for Bank Analysis)
  + Custom reports for transaction discrepancies and rejections

#### **6. Technical Components**

* **Backend**:
  + Spring Boot (API Development)
  + Spring JDBC
  + Oracle Database
  + RESTful Web Services
* **Testing**:
  + Junit with Mockito (Unit Testing)
  + Postman (REST API Testing)
* **Tools**:
  + IReport (For Report Generation)

#### **7. Challenges**

* **Data Regeneration and Document Management**
* **Custom Validation for H2H Transactions**
* **Report Generation for Multiple Transaction Rejections**

#### **8. Use Cases**

* **Initiating and Approving Trade Transactions** (Maker-Checker Workflow)
* **Generating FTR and FTNR Reports** (Bank Analysis)
* **AD to AD Transfer** (Foreign Currency Transfer)
* **Regenerating Transaction Documents** (For Failed Downloads)
* **Maintaining Beneficiary Details and Document Generation** (CBS Checker Level)
* **LC/BG Amendments** (Amending Transaction Details)
* **H2H Module Processing** (For Motherson Sumi Systems)
* **Tracking Transaction Status by Status Codes** (Workflow Progress Tracking)
* **Automated Notification System** (Updates for Clients)