



Vendor Data Management

(Java project using Spring, Hibernate and Web services)

Module Details

1. User Module
2. Location Module
3. Vendor Module
4. Customer Module
5. Item Module
6. Reports Module
7. Documents Module

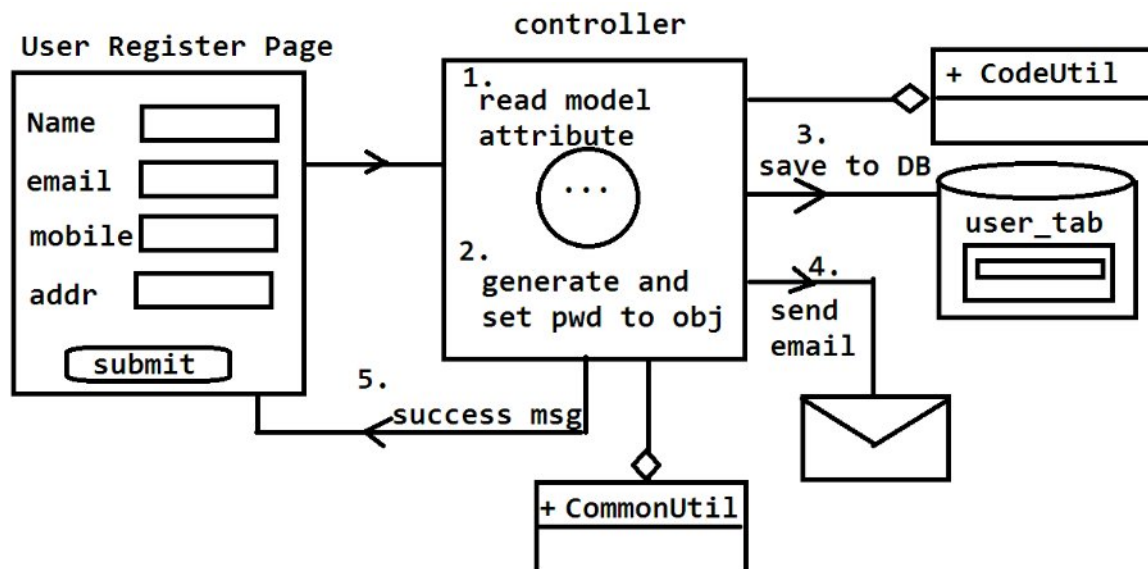
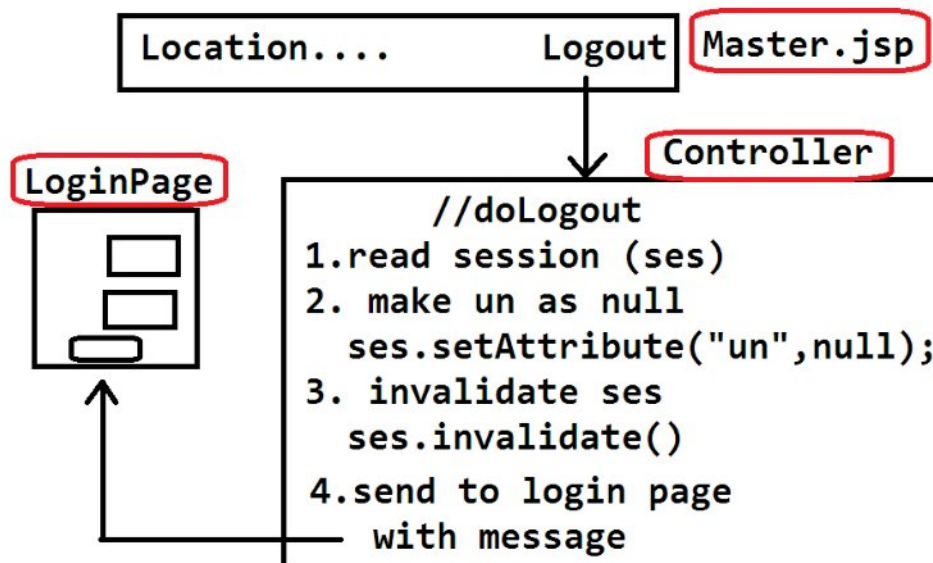
1)User Module:-

Data Management Starts from User Module. This module contains Complete User information who can handle the operations. User are two types here They are admin and vendor. Admin takes care of all types of works in application. Admin registration is required to access the application. On successful registration password will be generated and sent to User Email. Even He can re-set his password. After Registration process finishes, then Login with his credentials like username and password.

After Login Admin can access below modules.

Location, Vendor, Customer, Items Transaction details, Documents (Uploads & Downloads) and Reports.

Modules Contains Basic operations like insert, update, delete and view. Only Reports cannot be Updated and Deleted, they will be generated based on DB Data every time.

User Registration Process:Logout Process:

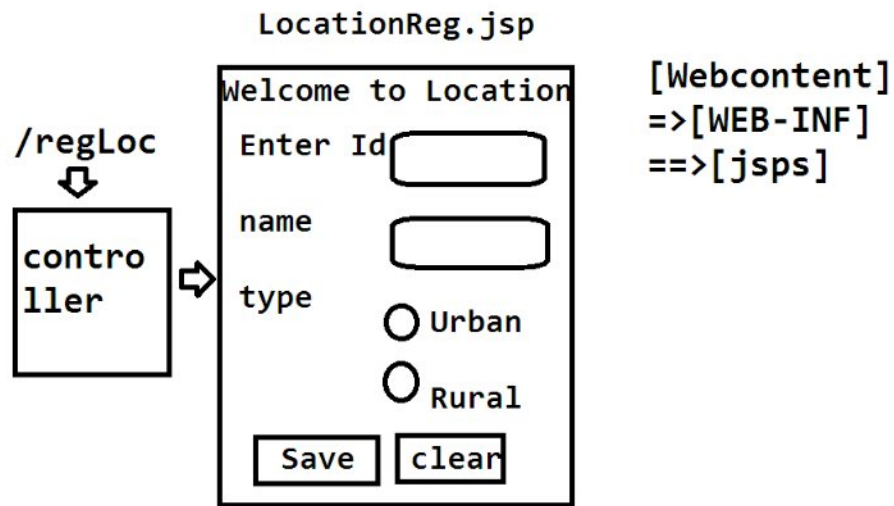
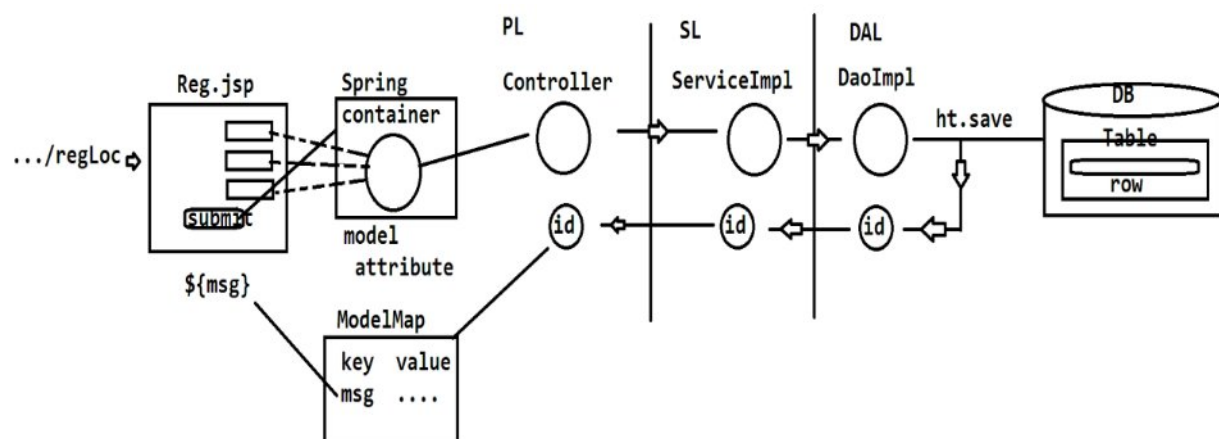
2)Location Module :-

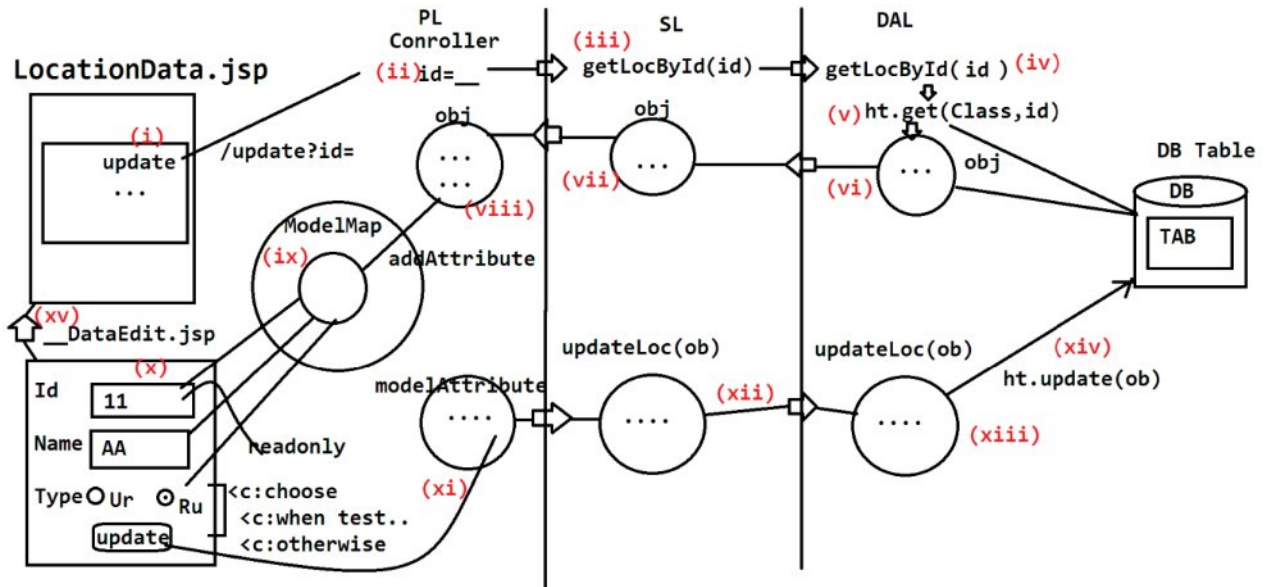
This module holds the information of Different locations available for Outlets/Stores/Marts where vendors and customers are going to be connected.

Every Vendor and Customer must have connected to one location. Only Unconnected locations can be deleted. We can even export locations data to an Excel and PDF file also.

Location Module contains inputs like Location name, Type of location like Urban, Semi-Urban, Rural, Semi-Rural, area Supervisor Name, Adviser Name, Location Created Date in Application, Location State, Area Pin code ,Country Name etc.. On inserting this data to application an unique ID will be generated and Message will be sent to UI. Duplicate Locations are not allowed to create in DB (Location Names are stored in Upper case letters in application).

On Creating module, this will be available to Vendor And Customer Registration Process. If we delete any Locations or Modify the details those will also affect it's connected Vendors and Customer Details.

Location Register :-Data Save Flow (Common for Modules)

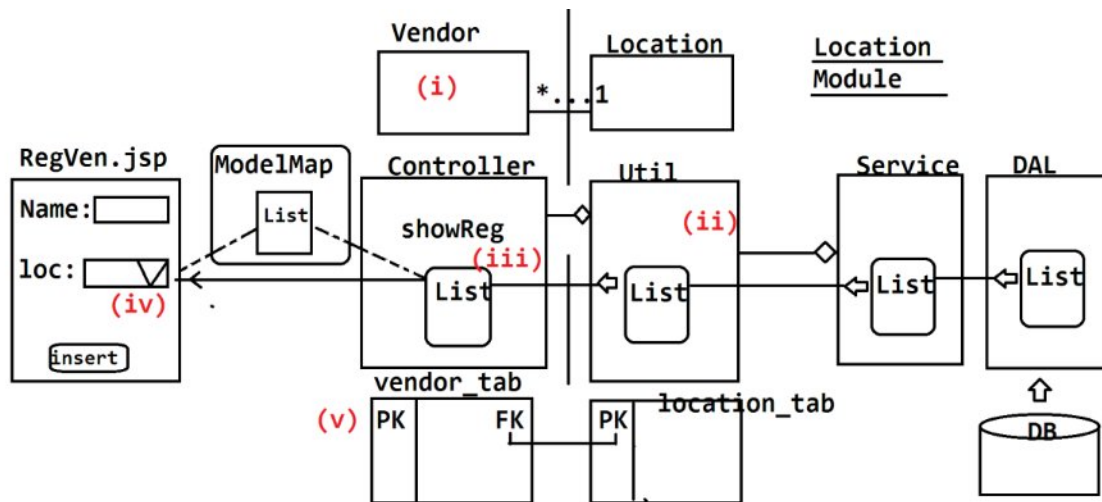
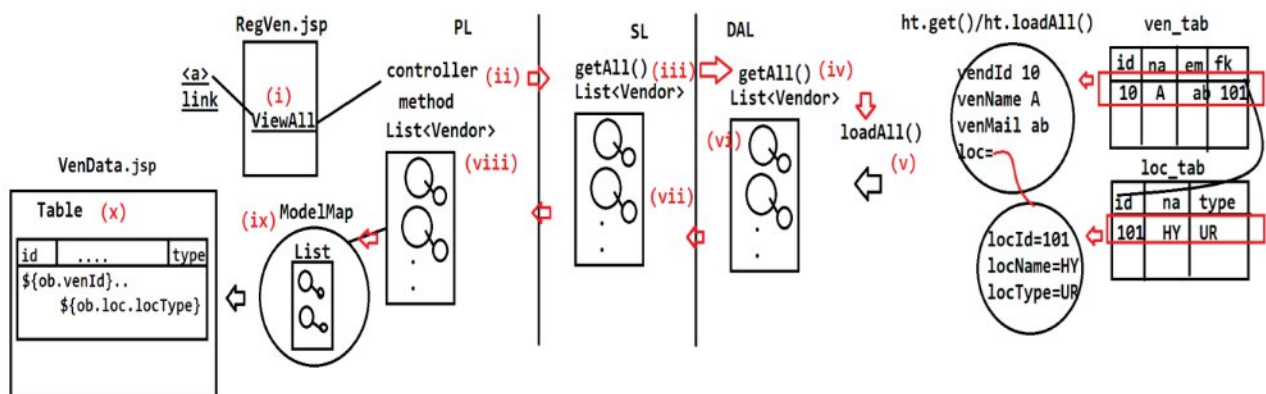
Location Edit/Update Flow:

3) Vendor Module:-

Vendors can be created by admin. Vendor Insert, update, delete and display operations are done using attachments (files), This attachment contains vendor identification details. Vendors are created with Location details and also Vendor name, Email Id, Register No, Mobile Number, Document Type, Document, Created Date, Complete Address and Personal Details(optional) like Gender, Date of Birth, Vendor Home Address, Languages Known etc.

If any vendor is created successfully by an admin, an email alert is sent to vendor with generated password details. Vendor can logging to application with those details and he can view his transactions. He can also modify all his profile information along with password.

Vendor creates transactions with possible Items, those can be created, edited and viewed, but cannot be deleted.

Vendor and Location Integration Flow:Vendor Data Display Flow:

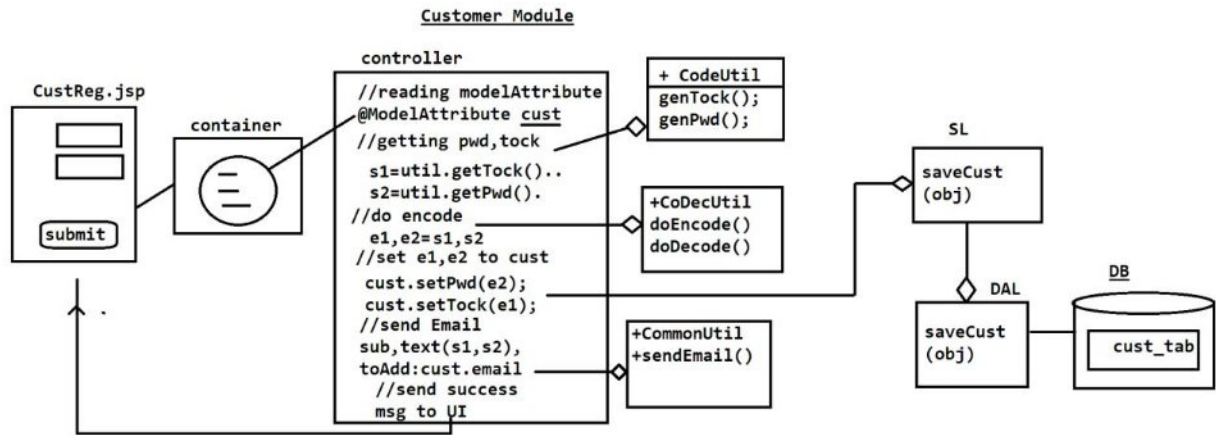
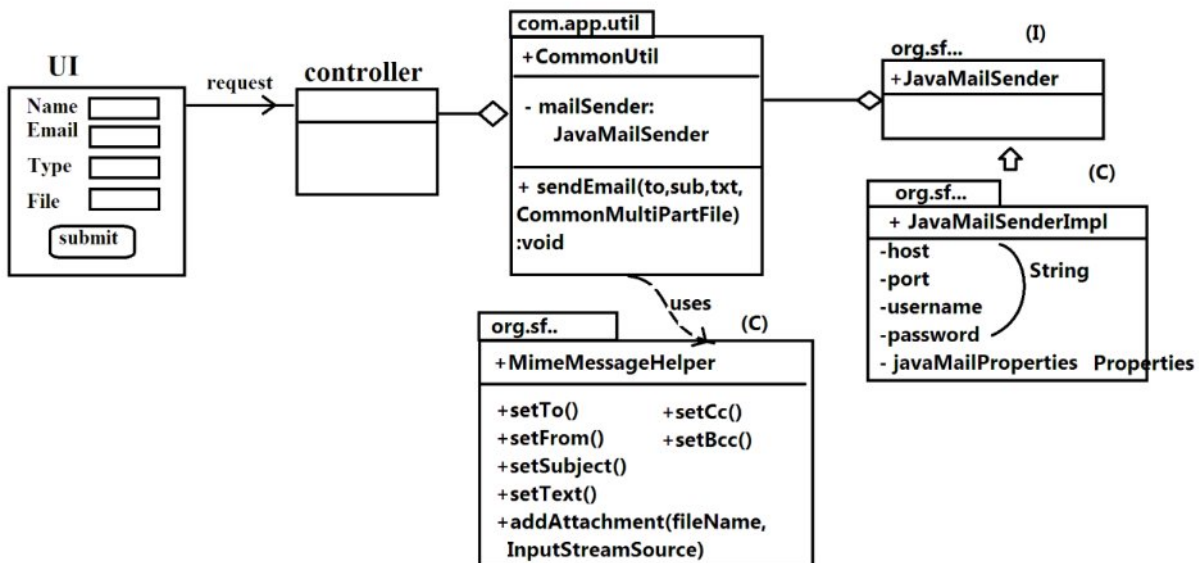
4) Customer Module:-

A customer registrations process is almost like vendor only. But here Customer are again categorized as two types. They are seller and consumer.

On successful registration, generate password and access Token values which are used to identify a consumer or seller in unique manner and store their details in DB in encrypted format. Also Send Same data to their respected e-mail Ids. Duplicate E-mail Ids are not accepted to create a customer. Password and tokens are system generated values using UUID (Universal Unique Identifier) concept.

all E-Mails are sent using admin registered email id in application.
example as admin@company.com.

Here seller can perform below operation using EDI concept they are: Create, Modify, Delete and View Items. Where consumer can do only view of items and request for a transaction to a vendor.

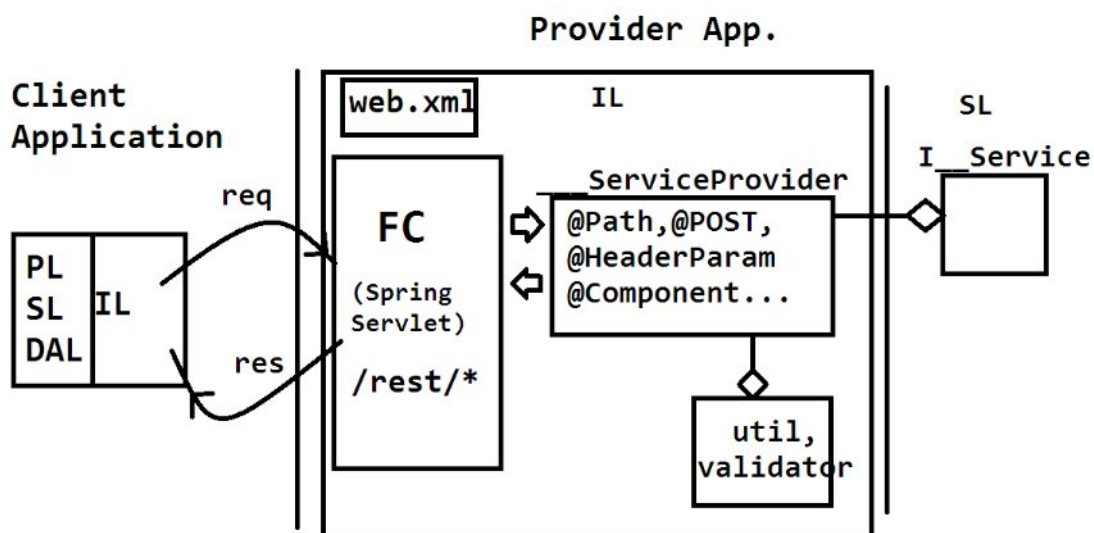
Customer Module Registration Flow:Email Process using Application:

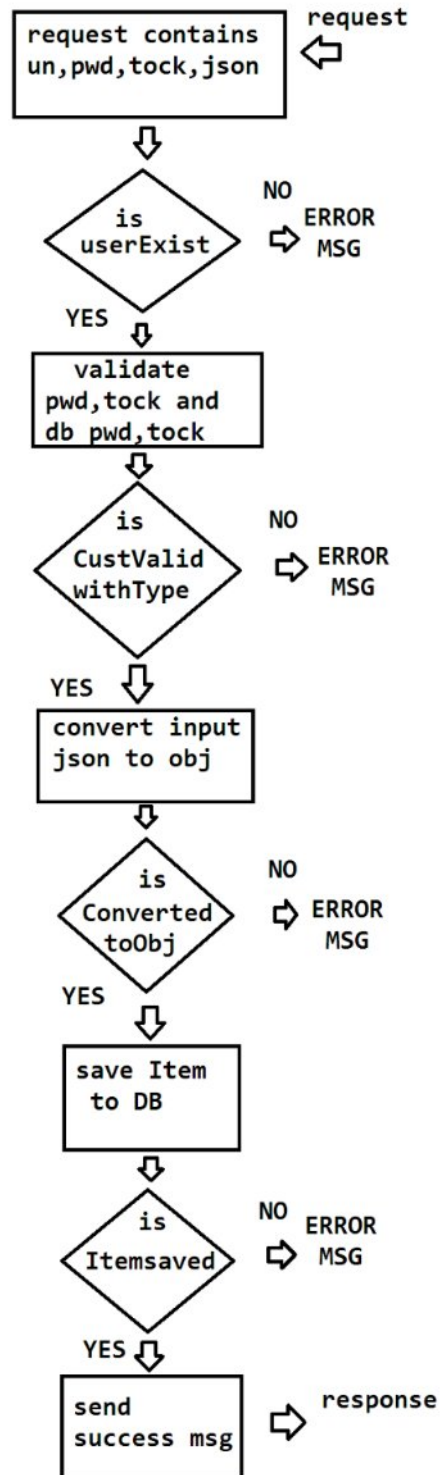
5) Items Module:

This module implementation is done using EDI (Electronic Data Interchange) concept , which is completely implemented using restful web service.

Data is sent from 3rd part warehouse as a Web Service call to our application, that holds data of Item in JSON(JavaScript Object Notation) format. This will be converted to DB Data. This Item JSON Contains item details like item name, transaction date and time, item mrp, margin Discount, vendor Margin, rebate value, special service cost, vat, service and transport mode and details, available quantity , item type, packing material, possible shipment modes etc...

ReST Design Format:

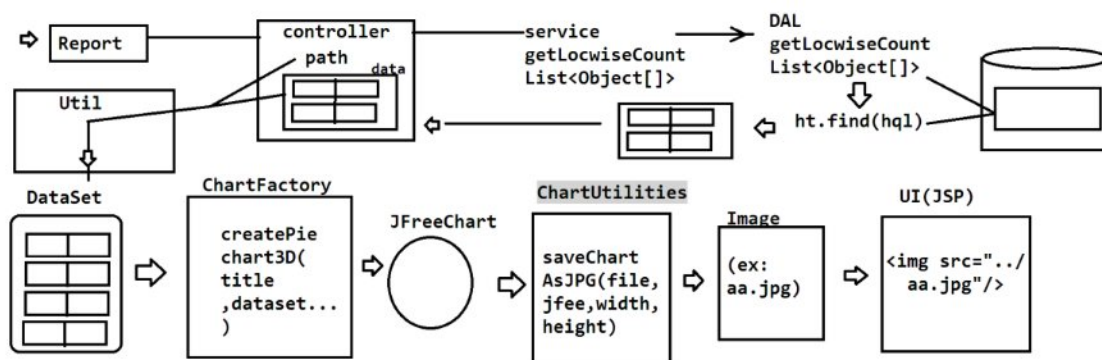


EDI Item Save Flow:**ItemSave Process**

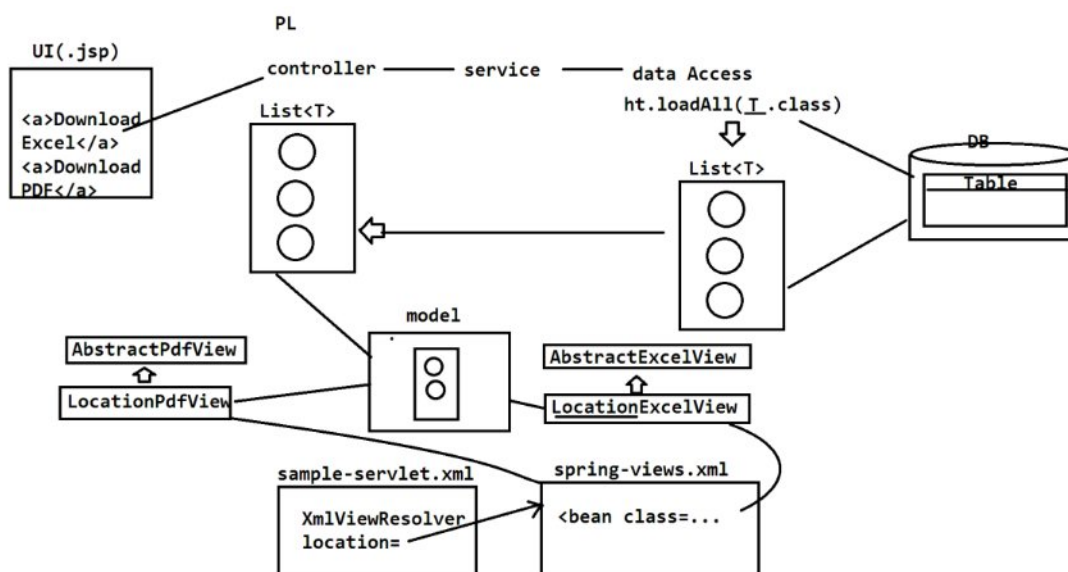
6) Reports Module:

Reports can be generated based on requested data in the form of Excel and PDF format and also supports graphical formats of data as pie and bar charts. These reports can be generated using schedulers as per admin configurations like particular date and time , day, date, month, year etc.. can be mentioned by admin to generate a report.

Charts Process:



Excel and PDF Process:



7) Documents :-

Application also supports to store important documents in Database. Like generated reports, Vendor or customer Identification details, reviews and analysis documents, customer feedback info, year/month wise analyzed reports etc. These can also be downloaded also. This module is completely handled by Admin only.

Documents Upload and Downloads:-

