SAAS Model for Banquet Management

**Software as a Service (SaaS)** – In this case, applications is exposed as a service running on a cloud infrastructure.  List of Features

1. Multi-Locations
2. Multi-Tenancy
3. Multi-Currency
4. Multi-Language

# Multi-Locations

Customer can login from anywhere and able to see what is happening on their franchise or stores.

If customer login into the application, if having only one location it can be directly load with default location.

If customer has more than one location or franchise, stores. There will be option to select which location he has to do transactions or view.

After login he will able to do select other locations from menu on top to select which location navigate.

Will have **OrganizationId** and **LocationId** inall tables to view which location what happening against organization.

# Multi-Tenancy

A *tenant* is a group of users or customers. In a SaaS application, the tenant is a subscriber or customer of the application. *Multitenancy* is an architecture where multiple tenants share the same physical instance of the app. Although tenants share physical resources (cloud), each tenant gets its own logical instance of the app.

**Sign-Up Process**

* A customer or tenant must sign up before users can sign in.
* Sign-up uses the admin flow of application.
* Sign-up adds the user's tenant to the application database.
* After a tenant signs up, the application shows an on boarding page.
* On boarding page tenant have to enter their corresponding details like company name, address, working hours, no of locations, no of halls, users, role permissions, etc... Some of basic details of an organization.

**Authentication**

* Users sign into the app with their organization credentials. They don't have to create new user profiles for the app.
* Users within the same organization are part of the same tenant or users.
* When a user signs in, the application knows which tenant the user belongs to.

**Authorization**

* When authorizing a user's actions (say, viewing a resource, access, transactions), the app must take into account the user's tenant based on their roles and permissions.
* Users might be assigned roles within the application, such as "Admin" or "Standard User". Role assignments should be managed by the customer, not by the SaaS provider.
* Roles must be applied by tenant or customer with their multi locations; permissions are same for all the locations while applying. If tenant gives permission to Manager, it will affect or will change all locations

# Multi-Currency

 Allowing a customer to pay in their native currency, with a preferred mode of payment, is indeed a big deal.

Options will be available on menu top, we can select and change which currency to apply all over the transaction for a location.

* Multi-Currency feature lets you create Plans that support multiple currencies, thus allowing your customers to pay in their local currency.
* Enable multi-currency, configure the currency type, select the type of exchange rate, and set
* The Base Currency will be your default currency and will also be used in the reporting. Foreign currencies that you transact in will be considered Additional Currencies or Exchange Currencies of country.
* You can [select](https://www.chargebee.com/docs/multi-currency-pricing.html#1-adding-currencies) the necessary currency type and exchange rate type i.e. **Manual**, to configure exchange rates yourself, or **Auto**, where app automatically updates exchange rates based on information received from third party exchange rate providers like yahoo, google, exhangerates, etc...

# Multi-Language

Not as a detailed one.

Have to save all records in database with different language, if user or tenant select language from the top of menu based on selected language all places have to change that corresponding language.

# List of Points Discussed

1. Global taxes, we have to cover.
2. Bill No Across location same sequence or different location with different sequence
3. Barcode printing and scanning options for the billing
4. Procedure level for locations (**SR**)
5. Location level role
6. Audit table for transaction needed or else what to do
7. Public site registration or sign-up and after that direct login for tenant
8. Time difference for different location and different countries, different patterns

# Schema Changes

1. Have to create a new table for locations (or) store
2. Need to add **locationid** and **organizationid** for all the tables