

WebApps Online Payment system:

Below are the functionalities implemented according to sections.

Web Layer:(Fully Implemented)

In this layer I have implemented all the functionalities using appropriate Xhtml pages and navigation rules and cases in face-config file.

Where

- User can view all the credit and debit transactions which is stored in database
- User can view the payment request notifications. He/she can accept or reject the request. If payment request accepted user can make transaction to other registered user as per request (In requested currency)
- User can send request to other user for payment.

Admin

- Admin can view all user list and their transactions
- Admin can register other sub admins
- Sub admins can only view all transaction list.

Business Layer :(Fully Implemented)

In this layer all the functionalities is implemented according to requirements .

With the help of persistence entity manager and JPA name queries

- User can view their personal transaction history
- Updated balance after transaction
- User can request for payments
- Transaction request list will be display to that particular user in the form of notification list.
- User can accept and reject the request.

Admins

- Admins can view all transaction history of all users plus user list with account balance
- Subadmins can view transaction history from all users.

Data Persistence Layer(Fully Implemented)

In this layer I have used JAP named queries for data manipulation. With the help these queries

- User can view their personal transaction history
- Updated balance after transaction
- User can request for payments
- Transaction request list will be display to that particular user in the form of notification list.
- User can accept and reject the request.

Admins

- Admins can view all transaction history from all users
- Subadmins can view transaction history from all users
- Admins can register subadmins (added this to realm as subadmin group)

Security Layer(Fully Implemented)

In this layer Realm security configuration done on payara. Using Webapps Realm added security roles and mapping the users. J_security used for login functionality. Security groups added-users,admins,subadmins.

Web Services(Fully Implemented)

Rest web service implemented for currency conversion using GET method.

RPC with Apache Thrift (Fully Implemented)

Thrift implemented to get local date time to show user requests and transactions

Validations checked:

- User name should be unique
- Enough amount available in the account while doing transaction.

Note:

**I have changed user label name and group to
SystemUser - SYSTEMUSERENTITY**

And

SystemUserGroup- SYSTEMUSERGROUPENTITY in my webapps realm configuration