

**LMS (Loan Management Solution) NOV 2020 Tech Space Document**

**nazdaqTechnologies Inc.**

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| **Owner:** | | | |  |
| **Created:** | | | | **Nov 22, 2020** |
| **Document ID:** | | | |  |
| **Document type:** | | | | **Technical** |
| **Version:** | | | | **v1.2.0** |
| **Revision information** | | | | | |
| **Rev.** | **Author** | **Date** | **Description** | | |
| 1.1.9 | Mirajul-Islam | 22 Nov 2020 | All Requirement | | |
| 1.2.0 | Mirajul-Islam | 25 Jan 2021 | Tracking Id Issue, Add Field in Memo Report, Add Signature Box in Loan Report and Memo Report, Import Excel Data in Database | | |
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| --- | --- | --- | --- |
| **Related documents** | | | |
| **Rev.** | **Document ID** | **Document name** | **Comments** |
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# ***Introduction***

* 1. Introduction

The main objective of developing this project is to handle the all details of Loans and customer. LOAN MANAGEMENT SOLUTION is a very efficient process to handle all user in a very accurate and convenient way. Loan management solution is an interface which facilitates a customer to apply for a loan in bank. This system provides detail about the customers, their loan details, EMI details and its rate details. Loan management solution is unique in such a way, it not only helps the customers but also the loan agency to check the pending, recommend it to a departments and approved the loan, complete the formalities and procedures between the departments and arrive at decisions to very fact. System provides download option to download different type of loan report in MS excel and pdf document. Loan management solution provides many different department and state. If any loan step by step recommend all department and state generate sanction later and it is last action this system. If any department faced any problem in loan and customer detail system can provide return deferred declined rejected option.

* 1. Problem Statement

The main objective of building this product is to develop a lightweight, user-friendly, flexible and efficient loan management solution. The goal is to develop a system that helps loans to get processed and service from the very beginning to the end.

1. *Overview*
   1. Audience Description

The audiences of this module are the persons who use the system. Basically, this system developed for the solution of Loan Management. Therefore, the audience for this system is anyone who has interest the usage of the LMS system.

* 1. Constraints

Since there are different type of users, our challenge is to give an optimal user experience to them. LAN connection & API access should be available.

2.3 Definitions, Abbreviation and Acronyms

|  |  |
| --- | --- |
| Term/Acronym | Definition |
| LMS | Loan Management Solution |
| CBBL | Community Bank Bangladesh |
| naztech | nazdaqTechnologies |
| CAD | Credit Admin |
| BM | Branch Manager |
| CIB | Credit Information Bureau |
| SO | Source Officer |
| CRM | Credit Risk Manager |
| CBS | Core Banking System |
| MIS | Management Information System |
| nSCREEN | Sanction Screening Software |
| BP No | Bangladesh Police Number |

1. *Architectural Design*

n

yes

START

no

Dashboard

Loan

Admin

DB

Dashboard

Admin

Loan

***4. Functional Requirements***

**4.1 Context**

Branch

CRM

Analyst

MIS / Receiver

Approver

Business Admin

CAD

(Credit Admin)

System Admin

Online Applicant

Document verifier

BM / Unit Head

Loan Management Solution

Source officer

**Fig 1 - Context Diagram**

**4.2 User Classes**

Users of the system should be able to manage information based on role-permission. The system will support different type of user privileges to maintain the whole process in the software. The user should be able to do the following functions.

**System Admin:** This user can maintain user and system configuration.

**Business Admin:** This user can maintain business configurable items.

**Applicant:** This user can create, update and send application to source officer/branch using online portal by login into the system.

**SO:** This user can view application, create information form and find CIB report from credit admin (CAD). Further this user can create, update and send a loan recommendation sheet to Document verifier/branch manager.

**Document Verifier:** This user can upload any supported documents/file of the applicant and then forward the loan recommendation sheet to Branch manager.

**Branch Manager:** This user can review the loan recommendation sheet and then forward to CRM department.

**CRM-MIS-CA:** This user can receive the loan recommendation sheet with all attached documents and allocate it to analyst.

**CRM-Analyst:** This user can analyze the loan recommendation sheet and all documents and then create an approval sheet to set actual loan amount, EMI and interest rate. After then user can submit the approval sheet to approver.

**CRM-Approver:** This user can accept or reject the application and can notify to CAD department.

**CAD:** This user can provide CIB report to source officer. Also this user can print a loan sanction letter if CRM-Approver accept the loan approval sheet.

4.3 Current Manual Workflow Diagram

**Field: Customer & SO Branch User HO: CRM & CAD**

***CRM-CA***

Review and allocate to analyst

***Manager***

Forward to CRM by Office boy / Source officer

***Source Officer***

Bring application and other documents to Bank

***Filed Officer***

Bring application and other documents to Bank, Submit SO

***CAD***

Print Sanction Letter, Disbursement

***CRM-Analyst***

Set amount, EMI, interest rate, etc.

***CRM-Analyst***

Analyze, Create Approval sheet

Start

***CRM-Approver***

Approve, conditionally approve, decline, Return to Analyst

***Manager***

Review, Comment, and Return to SO if need

***Source officer***

Create Business Recommendation Sheet

***Source officer***

Create Information form, Collect missing documents & find CIB Report

***Source officer***

View application

***Applicant***

Collect Application form, Fill in the form, Manual signature, Provide ready application with other documents to SO.

Queries

End

Fig : Manual Workflow Diagrams

4.4 Expected Auto Workflow Diagram

Return

Query to So

**CRM & CAD Login**

**Branch User Login**

**Customer Login**

***Manager***

Forward to CRM, Create serial number

***CRM-Approver***

Approve, conditionally approve, decline, Return

***CRM-Analyst***

Set amount, EMI, interest rate, etc

Query to CA

***CRM-CA/MIS***

Pull by BP number, Review and allocate to analyst

***CRM-Analyst***

**Analyze, Create Approval sheet**

***Approved-1***

Approve up to 10 lacs

***Approved-2***

(DMD/MD) Approve from 10 lacs to upper

***CAD***

Print Sanction Letter

End

***Manager***

Review, Comment and Return, View Excel or Pdf Report

***Source officer***

Create Business Recommendation Sheet

***Source officer***

Create Information form, document upload

***Source officer*** View application

CBS

Data Fetching if exists

Send to Branch

Save, update, and delete, status view

Start

Applicant Login, form fill in, document upload

4.5 Data flow Diagram

Rec

Submit

Query

Send To Cad

Rec

Recommend, Return To

Return

Return

Rec

Rec

Rec

Approve, Conditional Approve, Recommend To, Return To, Decline, Defer

Approve, Conditional Approve, Recommend To, Return To, Decline, Defer

Received, Update, Recommend To, Return To, Condition Fulfil, Send Query, Send To CIB

Save, Update, Delete, Submit

Save, Update, Recommend To, Delete

Query To SO, Query To CA

Approve, Conditional Approve, Return To, Decline, Defer

Approve, Conditional Approve, Return To, Decline, Defer

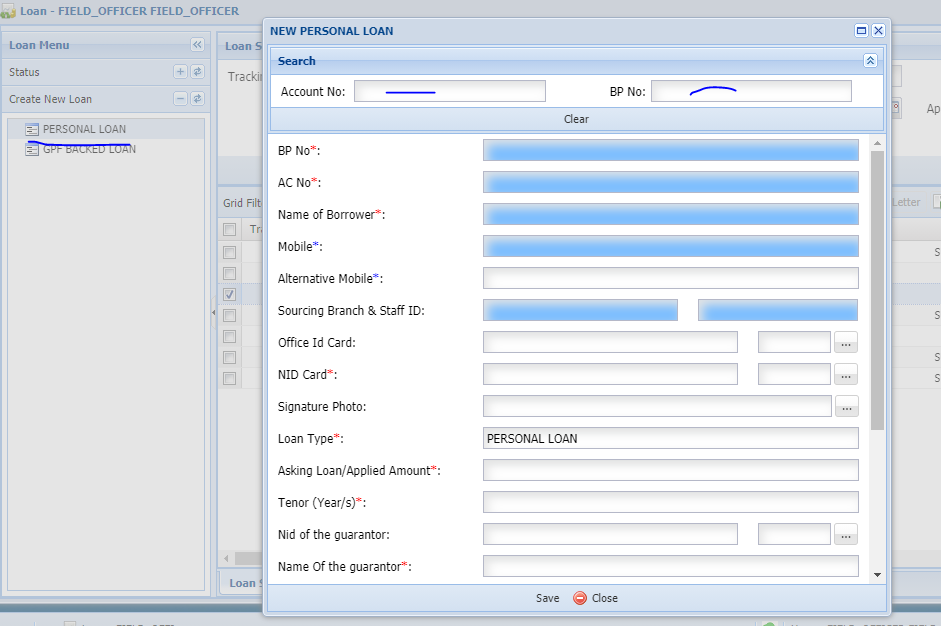
Approve, Conditional Approve, Recommend To, Return To, Decline, Defer, Send To CAD

***5. Loan Details***

5.1 Create New Loan:

5.1.1 New loan For Field officer:

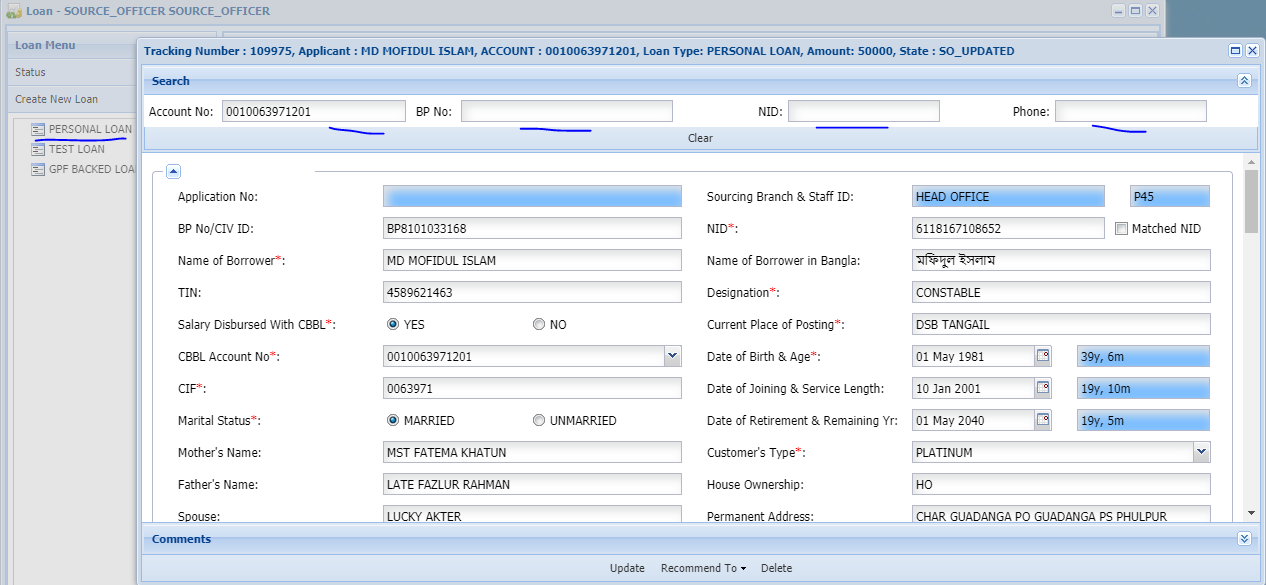
This is screen short:



If create a new loan Field Officer open Loan Panel and double click any loan type show pop-up and given account or bp number and press enter . After we are press enter hit api and show the customer all data in pop-up. Now input customer loan information, if all ok for loan now click save button. After we save create a new loan.

5.1.2 New loan For Source Officer:

This is screen short:

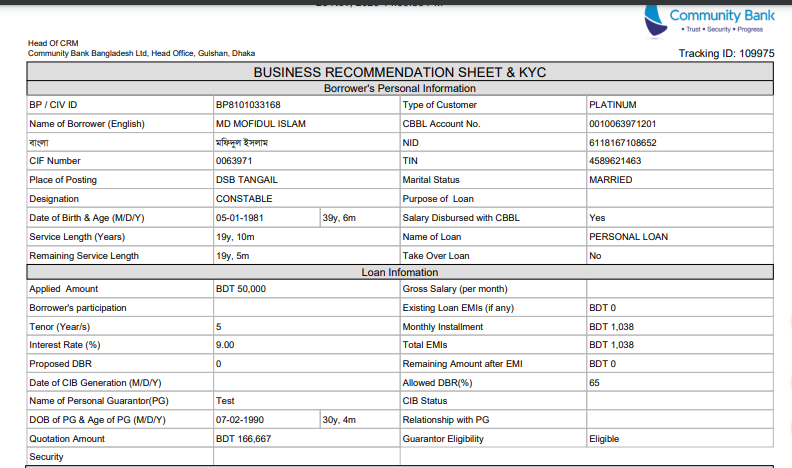


If create a new loan Source Officer open Loan Panel and double click any loan type show pop-up and given account or bp or nid or phone number and press enter . After we are press enter hit api and show the customer all data in pop-up. Now input customer loan information, if all ok for loan now click save button. After we save create a new loan.

5.2 Loan Report

5.2.1 Loan Report Branch Office:

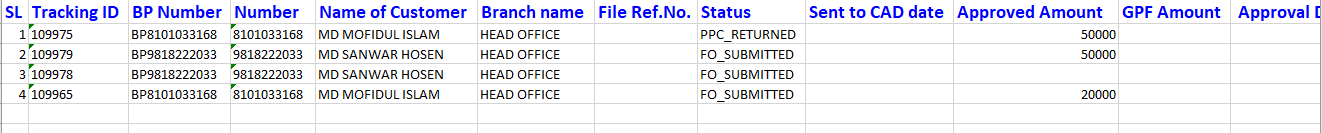
This is screen short:



If want to generate a loan pdf report Branch Office user open loan panel select any loan and click Loan Report. If user are click Loan Report show this pdf. This report show the “Borrower’s Personal Information” details in T\_CUSTOMER table. Show the “Loan Information” details in T\_LOAN table. Customer are provide his any documentation and loan creator are upload show yes or no the loan report “Documentation”. Many type are commends for create any loan all commends show” Waiver Sought (if any)”, “Comments/Justification”, “Recommendations from Branch” field.

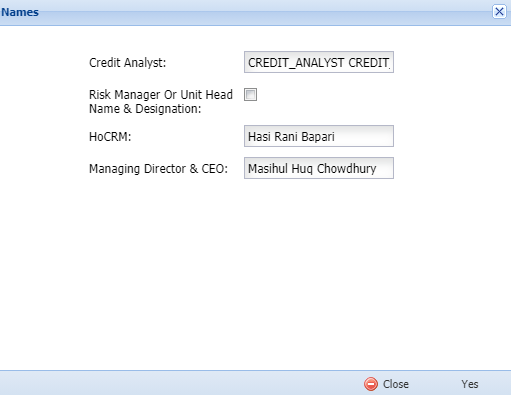
5.2.2 Loan PPC Excel Report:

This is screen short:

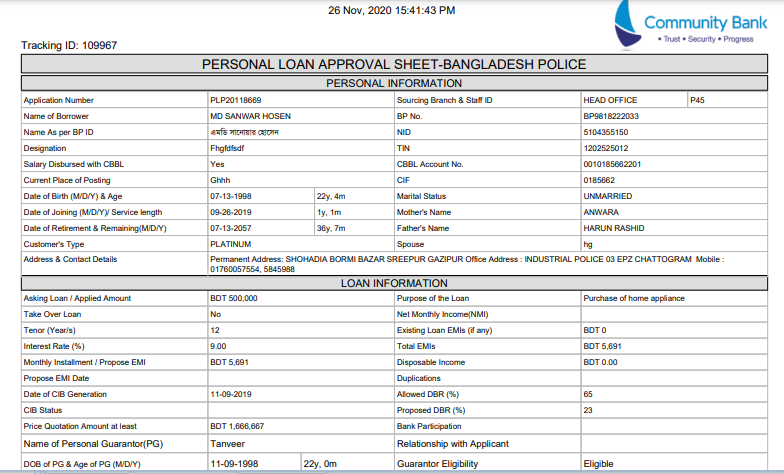


If want to generate loan excel report Branch Office user open loan panel select any loan or multiple loan and click PPC Excel Report. If user are click PPC EXCEL Report, generate the excel report and all loan detail, customer details and information in this excel.

5.2.3 Loan Report Head Office:



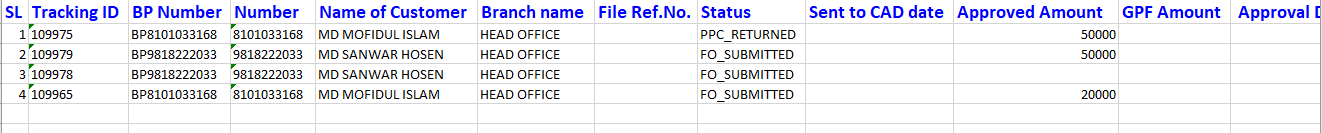
If want to generate a loan pdf report Head Office user open loan panel select any loan and click Loan Report. If user are click Loan show this pop-up. Pop-up Credit analyst name field show the loan credit analyst name, Ho-CRM field show ho-CRM name and MD&CEO filed show MD or CEO name. If user click check box show RM or UH name filed and RM or UH designation. If we are input name and designation show the loan report. If user are click yes button show in this pdf:



If want to generate a loan pdf report Branch Office user open loan panel select any loan and click Loan Report. If user are click Loan Report show this pdf. This report show the “Borrower’s Personal Information” details in T\_CUSTOMER table. Show the “Loan Information” details in T\_LOAN table. If customer are take loan another bank show details loan information in” EXISTING LIABILITIES DETAILS” field. Many type are commends for create any loan all commends show ” ANALYSTS COMMENTS”,” EXCEPTION DETAILS”,” INSTRUCTIONS TO CAD” field.” APPROVAL FROM HEAD OFFICE (CREDIT ANALYST / UNIT HEAD, RETAIL CREDIT / HOCRM / MD)” show the name for this user.

5.2.4 Loan CRM Excel Report:

This is screen short:



If want to generate loan excel report Head Office user open loan panel select any loan or multiple loan and click MIS-CRM Excel Report. If user are click MIS-CRM EXCEL Report, generate the excel report and all loan detail, customer details and information in this excel.

**5.3 Loan and Customer Field Dependent Information:**

**1. Asking Loan/Applied Amount**: If field officer input amount 500k or biggest amount show the tin

Information detail field and it’s mandatory.

**2. DOB of PG & Age:** If field officer Age of PG should not be less than 18.

**3.** **Customer\'s Type:** For **personal loan**, Source Officer select customer type PLATINUM interest rate

9% or select customer type DAIMOND interest rate 6.5%. Select customer type SILVER interest rate

10.5%. Select customer type GOLD interest rate 9%.

for **GPF backed loan**, Source Officer select customer type PLATINUM interest rate 8.5% or select

customer type DAIMOND interest rate 9%. Select customer type SILVER interest rate 9%. Select

customer type GOLD interest rate 9%.

**4. Asking/applied amount: GPF loan**, applied amountshould not greater than 90% of GPF Amount.

**5. Gross Salary per Month:** Calculate (totalEMI / grossSalaryPerMonth) \* 100) and set Proposed drb

and also calculate (grossSalaryPerMonth - totalEMI) and set Remaining Amount after EMI field.

**6. GPF Amount Field:** Calculate (gpfAmount\*0.9) and set applied Amount field.

**7. Net Monthly Income:** Calculate (totalEMI / netMonthlyIncome) \* 100) and set Proposed DBR field.

and also calculate (netMonthlyIncome – totalEMI) and set Disposable Income field.

**8. Existing Loan EMIs:** Calculate (monthlyInstallment + existingLoanEMI) and set TssotalEMI field.

**9. Interest Rate:** Calculate (appropriateAmount, tenorYear, interestRate, 12)

**10. DOB of PG & Age:** (DOBofPGYear + tenorYear <= 60 ) set GuarantorElibiblity field Eligible,

otherwise Not Eligible.

**5.4 MEMO Approval Report:**

5.4.1 Make Group:

All stated loan are not possible for create a loan group and also all user cannot create a loan group

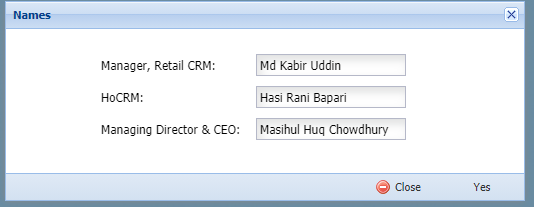
because not permission. ‘RISK\_MANAGER’, ‘UNIT\_HEAD’, ‘CREDIT\_ANALYST’ this user are create loan

group for ‘RM\_APPROVED’, ‘UH\_APPROVED’ stated loan. All condition are fulfill Make Group Button

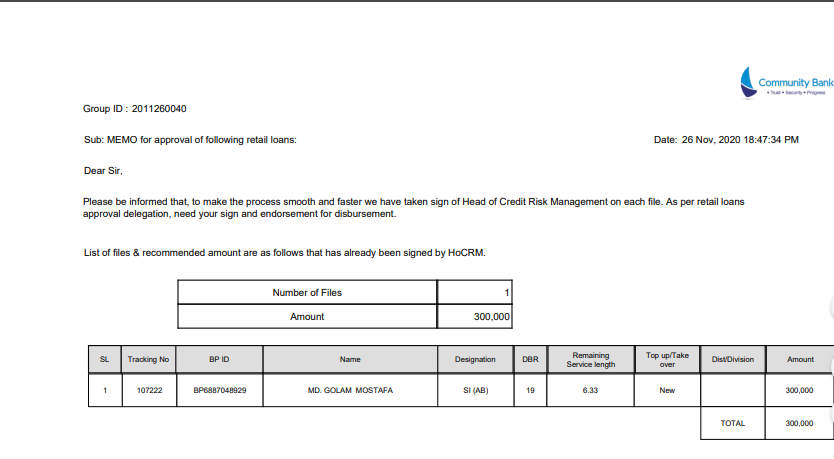
are clickable . If user are click button loan group are create.

If user are create a memo approval report, click same group id any loan and click Memo Approval

Report Button, If click button show this pop-up :



Show three filed in this pop-up and also show the name of Manager- Retails CRM, Ho-CRM and Managing Director & CEO. If we click yes button open memo approval report pdf:



5.4.2 Remove from Group:

All stated loan are cannot possible remove from group. This’ SENT\_TO\_CAD’, ‘SL\_GENERATED’,

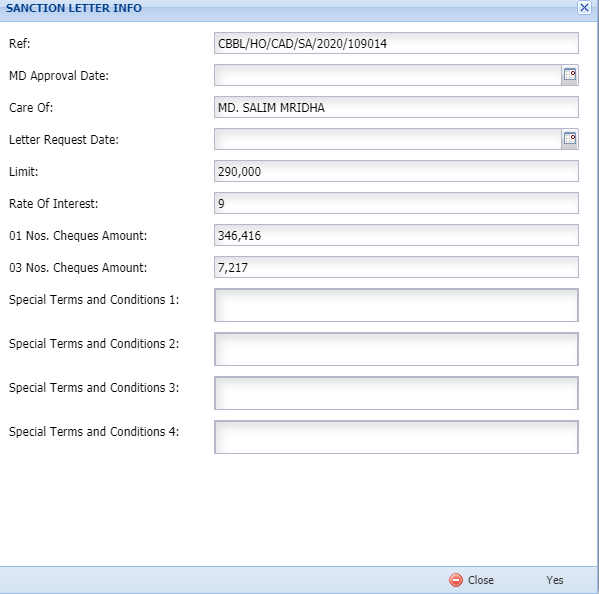
‘CAD\_SENT\_QUERY\_TO\_SO’, ‘SENT\_QUERY\_UPDATED’, ‘CAD\_SENT\_QUERY\_TO\_CA’,

‘SO\_CAD\_QUERY\_UPDATED’, ‘CA\_CAD\_QUERY\_UPDATED’ stated loan are possible removed from

Group.

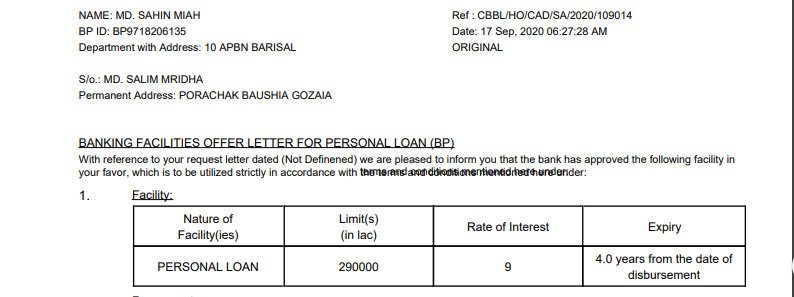
***6. Sanction Letter***

**6.1 We generate sanction latter show this pop-up**

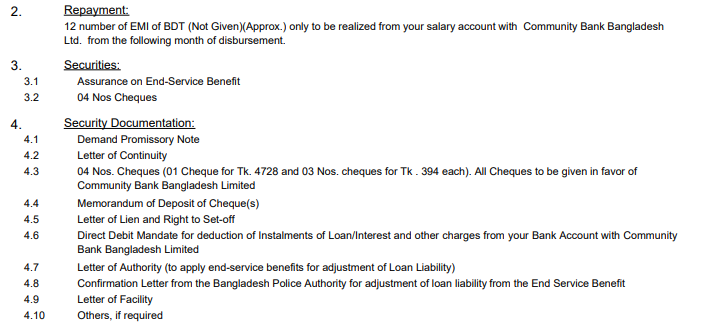


**6.2 Client requirement this pop-up filed value fetch and set from database and after calculate. Field value description:**

* + 1. Ref **:** CBBL/HO/CAD/SA/present year/loan tracking number.
    2. Care of**:** Customer father name.
    3. Rate of interest: Interest rate.
    4. 01 Nos Cheques Amount : tenorYear\*monthlyInstallment\*12.
    5. 03 Nos Cheques Amount : MonthlyInstallment.
    6. Loan Limit: recommendedForApproval amount.
  1. **After generate sanction later:**



* + 1. NAME: Customer name fetch from database in Customer information.
    2. BP ID: Customer BP id fetch from database in Customer information.
    3. S/o.: Care of.
    4. Department with Address: Customer office address fetch from database in Customer information.
    5. Permanent Address: Customer Permanent address fetch from database in Customer information.
    6. Ref : Ref from pop-up.
    7. *Date :* MD approval date
    8. **ORIGINAL Or DUPLICATE**( If loan state name **SL\_GENERATED** show **ORIGINAL** otherwise **DUPLICATE** )
  1. **Other value fetch from loan and customer information:**



* + 1. Nature of Facility(ies): Loan type Show
    2. Limit(s) (in lac): recommended For Approval amount
    3. Limit(s) (in lac): recommended For Approval amount
    4. \_\_\_\_\_\_\_Number of EMI of BDT: tenor \*12
    5. With reference to your request letter dated\_\_\_\_\_\_\_ : Letter ReqDate input from popup show date otherwise show (Not Definened)
    6. \_\_\_\_\_\_ (Approx.) only to be realized from your salary account with Community Bank Bangladesh Ltd.: recommended for Approval amount from database. If empty amout show (Not Given) otherwise show amount
    7. \_\_\_\_\_\_\_\_ years from the date of disbursement : tenor value show from database.
  1. **Special Terms and Conditions**

Sanction letter pop-up if input value in field:

* + 1. Special terms and condition 1
    2. Special terms and condition 2
    3. Special terms and condition 3
    4. Special terms and condition 4

After we generate sanction letter show the (7. Special Terms and Conditions) and inputted conditional value. If we no input in field (7. Special Terms and Conditions) don’t show.

* 1. **Diagram for sanction letter**

y

N

**Yes Button**

y

**Generate report with special terms**

y

**Yes Button**

**Special Terms and Conditions**

**Select any loan form Grid**

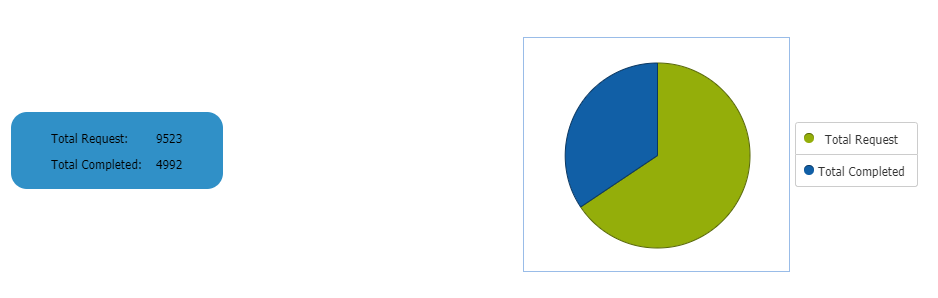
**Generate report without special terms**

**Pop-up filed value fetch database and set after calculate**

**Open pop-up open for Information**

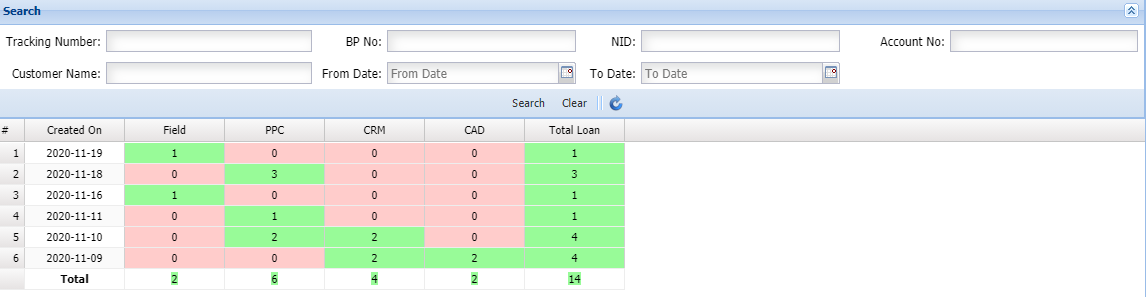
***7. Dashboard***

7.1 Total Overview:



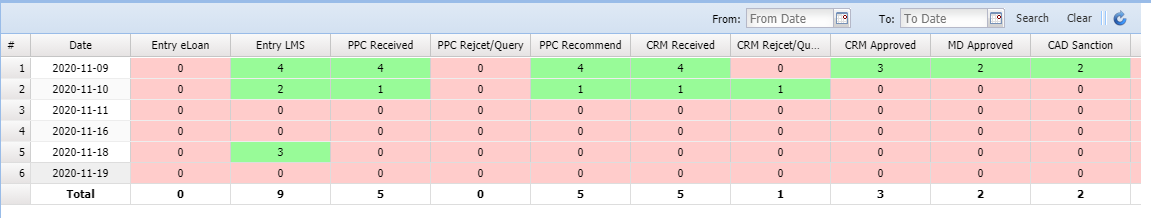
Show the total loan request and total completed in Loan Management Solution from database.

7.2 Loan Tracker Department Wise:



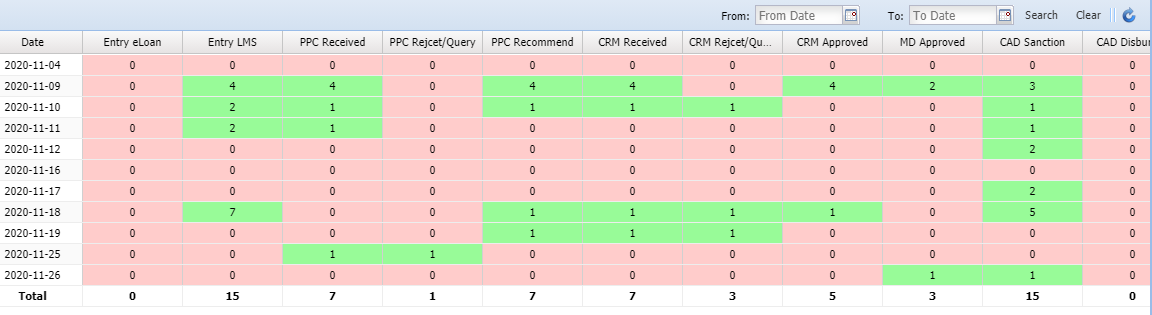
Show the loan tracker department wise status in Loan Management Solution from database. The department are Field, PPC, CRM and CAD.

7.3 Loan Count Date Wise:



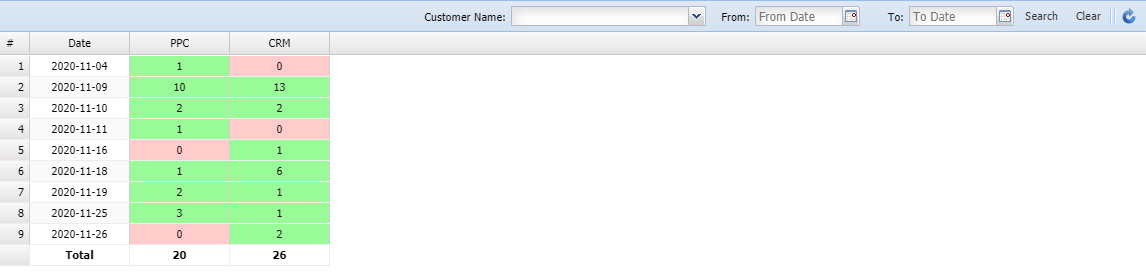
Show the loan count date wise status in Loan Management Solution from database.

7.4 Loan Status Department wise:



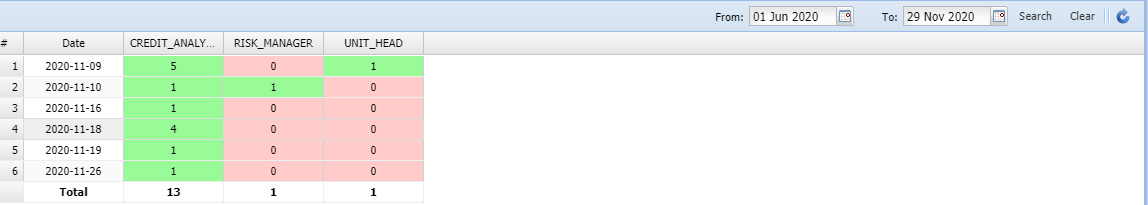
Show the loan status Department wise in Loan Management Solution from database.

7.5 Department Wise Loan Count:



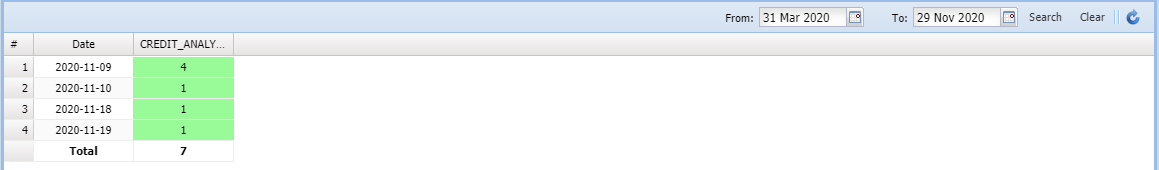
Count the department wise loan in Loan Management Solution from database. The department are PPC and CRM.

7.5 On Process in CRM:



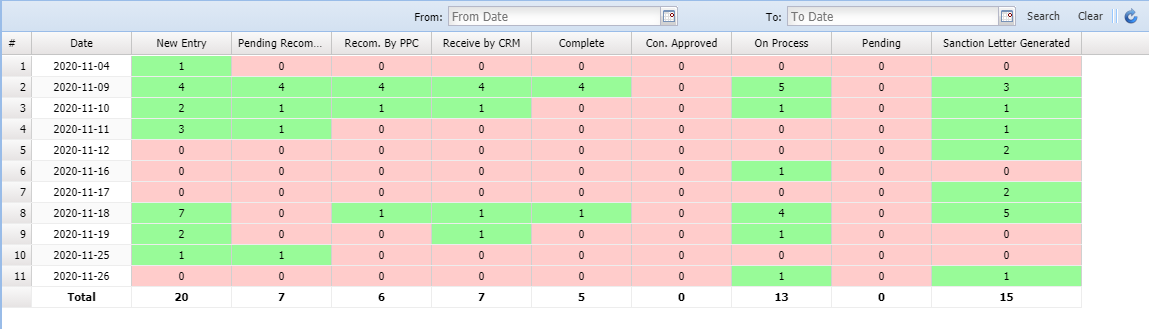
Count the CRM process wise loan status.

7.7 File Received in CRM:



Show the file received wise count status in CRM in Loan Management Solution from database.

7.8 Status Wise Loan Count:



Count the status wise loan in Loan Management Solution from database.

***8. Hardware Requirement***

|  |  |  |
| --- | --- | --- |
| **Server** | **Web Server Specification** | **Database Server Specification** |
| * **One (1) web server** * **One (1) database server** | * **OS: Linux 64 Bit** * **CPU: 8 vCPUs @ 2.00 Ghz or greater** * **Memory: 32 GB** * **Disk Space: 500GB** * **Partition Size:**   **/ 100 GB**  **Swap 64 GB**  **/boot 10 GB**  **/var 20 GB**  **/tmp 100 GB**  **/usr 50 GB**  **/home 156 GB**   * **Local Free Ports: 80 or 8080** * **Other recommended port to be free: 8005, 8443, 443, 8009** | * **OS: Linux 64 Bit** * **CPU: 8 vCPUs @ 2.00 Ghz or greater** * **Memory: 32 GB** * **Disk Space: 100 GB (OS), 500 GB for SQL Data Drive** * **Local Free Ports: 1433** * **Database: SQL Server 2017 or later 64 Bit (ENT / STD)** |

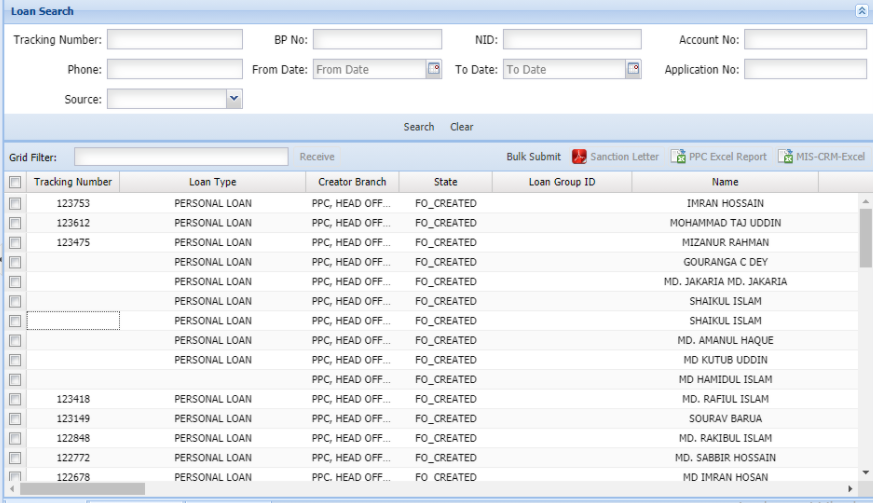
***9. Environment Requirement***

Every project needs following types of environment though software requirements may vary depending on project.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Environment** | **Purpose** | **Platform** | **Database** | **Web server** | **Software** |
| DEV workstation | Development team will perform regular development and unit test | Win/Linux | Common | Local | On dev computer:   * Microsoft Office Tools with Visio * JAVA SDK * STS * Sublime * SQL management studio * Baretail * Beyond compare * Postman * Rocket * Sourcetree * GIT * Connected to common development database server |
| Dev Test Environment | Development team will do SIT | Win/Linux | Separate | Separate | On application server:   * Windows server * Tomcat version 8.5 or upper * Baretail * Sublime * Postman   On test computer:   * Microsoft Office Tools * DB visualizer * SQL management studio * Tomcat server * Postman * GIT * Connected to common development database server |
| QA Test Environment | * QA team will perform testing * Environment and hardware spec should follow UAT env | Win/Linux | Separate | Separate | On application server:   * Windows server * Tomcat version 8.5 or upper * Baretail * Sublime * Postman   On test computer:   * Microsoft Office Tools * DB visualizer * SQL management studio * Tomcat server * Postman * GIT * Connected to common development database server |
| UAT environment | * Client will perform testing after release * Environment and hardware spec should follow PROD env | Win/Linux | Separate | Separate | On application server:   * Windows server * Tomcat version 8.5 or upper * Baretail * Sublime * Postman |
| PROD environment | Environment and hardware spec should follow nazdaq provided requirements | Win/Linux | Separate | Separate | On application server:   * Windows server * Tomcat version 8.5 or upper * Baretail * Sublime * Postman |

***10. New Requirement (v1.2.0)***

10.1 Tracking Id Missing Issue:



Solution: Previous version tracking id set in middle tier when loan create. Tracking id set formula: when save any loan call ***GET\_SYSTEM\_KEY*** sp and create id in T\_SYSTEM\_KEY table and set the value in loan tracking id.

This formula some time missing tracking number anyhow. Now I add some query in INS.loan.sp when any time can’t set loan tracking in middle tier in this time I set in database sp :

**IF(@tx\_loan\_tracking\_id IS NULL)**

**BEGIN**

**SET @tx\_loan\_tracking\_id = (select id\_key\_value from T\_SYSTEM\_KEY**

**where tx\_key\_name = 'id\_loan\_tracking\_id\_key')**

**SELECT @tx\_loan\_tracking\_id**

**UPDATE S**

**SET S.id\_system\_ver = S.id\_system\_ver + 1**

**, S.id\_key\_value = S.id\_key\_value + 1**

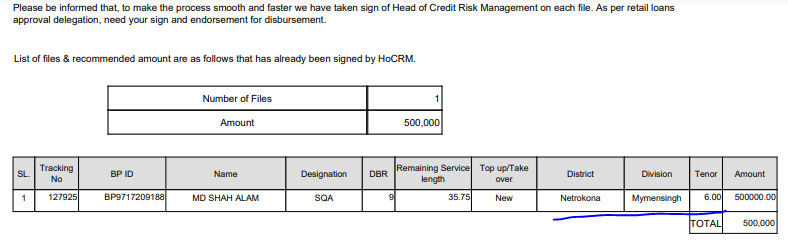
**from T\_SYSTEM\_KEY S**

**where tx\_key\_name = 'id\_loan\_tracking\_id\_key'**

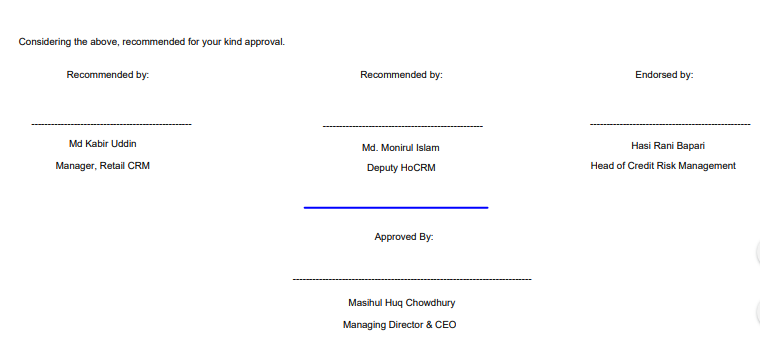
**END**

10.2 Add new Filed and Signature box in Memo Report:

**New Filed**: Add new filed and Tenor and split District Division Field.

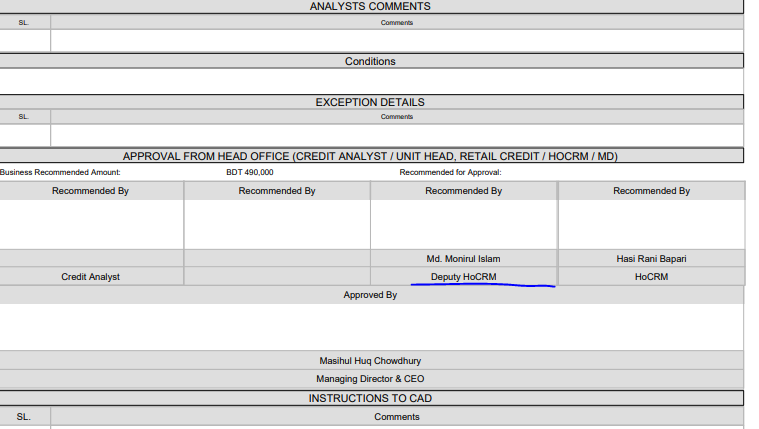


**Signature Box:** Add new Signature Box Deputy Ho-Crm.



10.3 Signature box in Head Office Loan Report:

Add new Signature Box Deputy Ho-Crm



***11. E-Loan API:***

**11.1 E-loan Login:**

**Login URL**: **"http://103.141.205.44:8080/nSMARTLite-server/server/processJsonRequest.htm";**

**Body: {**

**'header': {**

**'objectType': 'USER',**

**'actionType': 'LOGIN',**

**'source': 'nSCREEN',**

**},**

**'payLoad': [**

**{**

**'unId': username,**

**'password': base64.encode(utf8.encode(password)),**

**},**

**],**

**}**

**11.2 Loan Create, Update, Submit:**

11.2.1 Search Customer For Create Loan:

Login URL: "http://103.141.205.44:8080/nSMARTLite-server/server/processJsonRequest.htm";

Body: {

"header": {

"source": "eLoan",

"objectType": "Customer",

"contentType": "Customer",

"actionType": "SELECT\_CUSTOMER",

"userId": payload\_second.payLoad[0].id.toString(),

"reference": "",

"appName": "eLoan"

},

"payload": [

{

"userModKey": payload\_second.payLoad[0].id.toString(),

"accountNo": bpNo,

"searchByStr": "Account No = " + bpNo

}

]

};

11.2.2 Create update Submit:

Login URL: "http://103.141.205.44:8080/nSMARTLite-server/server/processJsonRequest.htm";

Body: {

"actionType": ”FO\_CREATE”,"FO\_UPDATE",”FO\_SUBMIT”

"loan": {

"accountNo4Src": null,

"loanId": 153135,

"idLoanTypeKey": 101385,

"appliedLoanAmount": 5252,

"tenorYear": 52,

"nameOfGuarantor": "adfasf",

"guarantorNid": "",

"mobileOfGuarantor": null,

"dobOfPg": "DOB of PG",

"dobOfPgYear": "",

"verificationEmail": "alsdfkjal@asdlfkj.asldf",

"stateId": 110001,

"stateName": "FO\_CREATED",

"dataSource": "MOBILE",

"userModKey": 110946,

"idLegalEntityKey": 110042,

"sourcingBrc": null,

"staffId": null,

"customer": {

"customerIdKey": 152964,

"customerId": "0116872",

"bpNo": "0010116872201",

"accountNo": "0010116872201",

"customerName": "MD. JAKIRUL ISLAM",

"designation": "ASI ",

"currentPlaceofPosting": "Dinajpur ",

"joiningDate": "2006-05-04",

"mobile": "01721663559",

"emerPhone": "01703805827",

"tin": "145757878",

"nid": "8198504981687",

"officeId": "MITHAPUKUR PS RANGPUR",

"userModKey": 110934

},

"loanDocumentList": [

{

"docType": "GUARANTOR\_NID",

"docName": "sample.pdf",

"isMandatory": 1,

"uploadStatus": 1

},

{

"docType": "SIGNATURE",

"docName": "image\_picker2925373872546596350.jpg",

"isMandatory": 0,

"uploadStatus": 1

}

]

}

}

**11.3 Existing Loan Show with Pagination:**

**URL**: <http://103.141.205.44:8080/Lms-server/eloan/data/view?start=1&limit=20&userId=110946&fromDate=1970-01-01&toDate=2021-05-20&actionType=SELECT_ELOAN_GRID_DATA>

**11.4 Single Loan Details:**

**URL**: <http://103.141.205.44:8080/Lms-server/jsonRequest>

**Body: {**

**"header": {**

**"source": "LMS",**

**"objectType": "Loan",**

**"contentType": "Loan",**

**"actionType": "SELECT\_FULL\_LOAN",**

**"userId": 110946,**

**"appName": "LMS"**

**},**

**"payload": [**

**{"userModKey": 110946, "loanId": 153145}**

**]**

**}**

**11.5 My Loan Search:**

**URL**: <http://103.141.205.44:8080/Lms-server/jsonRequest>

**Body:**

{

"header": {

"source": "LMS",

"clientSource": {

"id": "controller-134",

"uniqueId": "controller-134",

"alias": ["controller.loanPanel"]

},

"objectType": "Loan",

"contentType": "Loan",

"actionType": "SEARCH\_MY\_LOAN\_FOR\_ELOAN",

"userId": 110946,

"reference": "onClickLoanSearch",

"appName": "LMS",

"envId": 100000,

"senderId": 110946,

"destination": "http://10.33.44.3:8080/Lms-server/jsonRequest",

"[object Object]": null,

"id": "b82f3f61-08bc-491a-a5cc-f3e69fe6e7e1",

"timestamp": 1610280019953,

"nMessageVer": "1.0.0",

"sequenceNumber": 7,

"clientUid": "fa7ebdee-6c55-4bd1-8ca4-7feb53139d45"

},

"payload": [

{

"userModKey": 110946,

"accountNo4Src": "145902",

"bpNo": "145902",

"nid4Src": "145902",

"phone4Src": "145902",

"applicationNo": "145902",

"loanTrackingId": "145902",

"customerName": "145902"

}

]

}

**11.6 Loan Tracker:**

**URL**: <http://103.141.205.44:8080/Lms-server/jsonRequest>

**Body:** {

"header": {

"source": "LMS",

"clientSource": {

"id": "controller-134",

"uniqueId": "controller-134",

"alias": ["controller.loanPanel"]

},

"objectType": "Loan",

"contentType": "Loan",

"actionType": "SEARCH\_LOAN\_FOR\_ELOAN",

"userId": userid,

"reference": "onClickLoanSearch",

"appName": "LMS",

"envId": 100000,

"senderId": 110946,

"destination": "http://10.33.44.3:8080/Lms-server/jsonRequest",

"[object Object]": null,

"id": "b82f3f61-08bc-491a-a5cc-f3e69fe6e7e1",

"timestamp": 1610280019953,

"nMessageVer": "1.0.0",

"sequenceNumber": 7,

"clientUid": "fa7ebdee-6c55-4bd1-8ca4-7feb53139d45"

},

"payload": [

{

"userModKey": 110946,

"accountNo4Src": "145902",

"bpNo": "145902",

"nid4Src": "145902",

"phone4Src": "145902",

"applicationNo": "145902",

"loanTrackingId": "145902",

"customerName": "145902"

}

]

}

***12. Comments & Notes Details***

**12.1 Comments details:**

12.1.1 First of remove the comments and send query comments in loan details design.

12.1.2 Redesign loan details window form.

12.1.3 Create ‘Comments’ new tab in loan details form.

12.1.4 Design comments and send query comments.

12.1.5 Working comments tab for show the all comments and send query comments.

12.1.6 Unit test the all is ok or not.

**12.2 Notes details:**

12.2.1 Create ‘Notes’ new tab in loan details form.

12.2.2 Design notes tabs for save and show notes for any loan.

12.2.3 Create store for notes bind the notes model in extjs.

12.2.4 Create model and service class in server side.

12.2.5 Model and service class map in UI and Middle tier.

12.2.6 Create T\_NOTES table in local uat.

12.2.7 Create ACT\_notes.sp for server to db configuration save and select notes.

12.2.8 When user save notes for any loan, configuration UI , middle tier, database sp.

12.2.9 Configuration UI, middle tier, database for show notes for any loan.

***12. Other Requirement***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Req ID | REQUIREMNT Identifier | Requirement Text / DATA | Acceptability | Limitations | Notes | Test case Identifier |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |