POS Application Requirements





Software Requirements Specification of POS Application

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Document Version History		
Version	Date	Comment
1.0.0	02-Feb-2013	



1 Scope of Project

The scope of this project is to develop a replica of SAND PS400 Bank POS and Merchant POS Application with all the existing transaction features and functionalities for new SAND PS420. A new application need to introduce **Attendance Services** for one of our project.

1.1 Applications

Name of Application	QCash Bank POS Application
Development Period	01 st May, 2013 to 30 th June, 2013
Description	Bank POS Terminal Application for In-Bound Remittance.
Name of Application	QCash Merchant POS Application
Development Period	01 st May, 2013 to 30 th June, 2013
Description	Merchant Application for POS Terminal
Name of Application	QCash Attendance Application
Development Period	01 st May, 2013 to 30 th June, 2013
Description	Proprietary Application for POS Terminal to collect cardholder's presence at terminal end.

1.2 List of major Transactions of Bank POS

112 2100 01 major 11 anout 10 10 10 10 10 10 10 10 10 10 10 10 10		
Name of Transaction	Description	
Cash Deposit	A transaction for deposit cash on customer card. It may be a non-PIN based	
	transaction.	
Cash Advance	A transaction for getting cash from branch/agent teller using customer card. It	
	must a PIN based transaction.	
VOID A reversal transaction for any unsuccessful transaction at terminal end.		
Balance Inquiry	A transaction through which customer can able to know his/her card's available	
	balances.	
P2P Transfer	A transaction which is used to transfer a desirable amount from one card to	
	another.	
PIN Change	A transaction using which customer can able to change his/her card PIN.	
Log On	A transaction which will used to get session key from Acquiring HOST to make	
	any PIN based transaction further.	
Payment	Using this transaction cardholders can able to pay pre-configured vendor bill	



1.3 Transaction Flow:

Initial Screen [Tab Page]

Cash Advance	Cash Deposit
Settlement	Menu

Cash Advance:

- ✓ Enter Password:
- ✓ Swipe/Insert Card OR Enter Card Number
- ✓ Expire Date (MM/YY): [If manually Transaction]
- ✓ Enter CVV: [If manually Transaction]
- ✓ Cash Amount:
- ✓ Enter PIN

Cash Deposit:

- ✓ Enter Password:
- ✓ Swipe/Insert Card OR Enter Card Number
- ✓ Expire Date (MM/YY): [If manually Transaction]
- ✓ Enter CVV: [If manually Transaction]
- ✓ Cash Amount:

Menu:

- ✓ Transactions
 - o Cash Advance
 - o Cash Deposit
 - o Adjust
 - o Balance
 - o Card To Card Transfer
 - Account To Account Transfer
 - o PIN Change
 - o LogOn
 - o Payment

✓ Configuration:

Object Name	Object Properties	Remarks
PABX		
Terminal	✓ STAN	Need to add a new print





		BX Access Code	label for Transaction
		3X Delay	Statement i.e. Company
		l Type	Copy.
		st Time Out	
		er Time Out	For different types of
	✓ Tec	h Password	Institute it will configure i.e.
	✓ Tip	ping	for Bank- National Bank
	✓ Inv	oice	Copy, BPO-BPO Copy.
	✓ Log	0	
	✓ Scr	een Logo	
	✓ No	Blind Dial	
	✓ Set	tle Receipt	
	✓ Sele	ect Account Enable	
	✓ Dec	cline Receipt	
	✓ Rec	eipt Prompt	
	✓ Rec	eipt Line 1	
	✓ Rec	eipt Line 2	
	✓ Rec	eipt Line 3	
	✓ Rec	eipt Line 4	
	✓ Agr	ee Line 1	
	✓ Agr	ee Line 2	
	✓ Agr	ee Line 3	
	✓ Agr	ee Line 4	
	✓ Cor	npany Copy(New)	
	✓ Bee	ep Enable	
So	elect Acquirer		
	✓ Ind	ex Number	
	✓ Hos	st Name	
	✓ Prir	mary	
	✓ Sec	ondary	
	✓ Set	tle Primary	Host Access will be
		tle Secondary	
	✓ Car	rier Time Out	configured in Two ways • IP Address Enabled
	✓ Ret	ry	
Acquirer	✓ NII		Domain Address Fnabled
	✓ Ter	minal ID	Enabled.
	✓ Me	rchant ID	POS Management Team will
	✓ Bat	ch Number	enable any one of Two
	✓ Nex	kt Batch Number	options and input Host Access information.
	✓ Pro	tocol Type	Access information.
	✓ Syn	c Mode	
	✓ Bat	ch ID	
	√ API	N	
	✓ Hos	st Access	
		o TCP/IP Mode	





	1. Primary IP Address 2. Primary Host Port 3. Secondary IP Address 4. Secondary Host Port ○ Domain Mode 1. Domain Address ✓ Currency ✓ Connection Type ✓ Currency Code ✓ Country Code	
	✓ Min Purchase Amount✓ Max Purchase Amount✓ Cash Back Check	
Card Table	Select Card ✓ Card Number ✓ Low ✓ High ✓ Issuer ID ✓ Acquirer ID	Low and High need to extend min 12 character.
Issuer	Select Issuer: ✓ Index Number ✓ Card Label ✓ Checking Option ✓ Cash Out Option ✓ Option 7 ✓ Default Account ✓ Floor Limit ✓ Floor Limit EMV ✓ EMV PIN Bypass ✓ MagStripe PIN	
Payment	✓ Bill-Payment Vendor ✓ Pre-Paid Vendor ✓ Mobile Top Up Vendor	 It may need to add a no of vendor as payment vendor at terminal end. These vendors need to configuration with basic information i.e. Vendor ID, Vendor Account etc, In the Prepaid transaction – Prepaid vendor provider account will be configured. At transaction is an an





there are a no of input fields may require to input fields may require to input billing information i.e. customer registration no or bill account no, bill serial no, phone no, billing month etc. For different vendor the text of labels of these input fields may need to change. All fields of Payment information may not require for any of one Payment vendor. So the label and correspond field will be needed to Enable or disable at payment configuration part. Time/Date Clear Reversal Password Abaintenance Operator Supervisor Transaction wise surcharge configuration Cash Advance Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Card To Card Transfer Account To Account Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Surcharge Enable/Disable Amount Flat/Percentage/Amount Range				all C
Time/Date Clear Reversal Password V Maintenance V Operator V Supervisor Transaction wise surcharge configuration Cash Advance Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Cash Deposit Surcharge Card To Card Transfer Flat/Percentage/Amount Range Card To Card Transfer Flat/Percentage/Amount Range Card To Card Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Flat/Percentage/Amount Range Account To Account Transfer Flat/Percentage/Amount Range				require to input billing information i.e. customer registration no or bill account no, bill serial no, phone no, billing month etc. • For different vendor the text of labels of these input fields may need to change. • All fields of Payment information may not require for any of one Payment vendor. So the label and correspond field will be needed to Enable or disable at payment
Clear Reversal Password ✓ Maintenance ✓ Operator ✓ Supervisor Transaction wise surcharge configuration Cash Advance ✓ Surcharge Enable/Disable → Amount → Flat/Percentage/Amount Range Cash Deposit Surcharge Card To Card Transfer Card To Card Transfer ✓ Surcharge Enable/Disable → Amount → Flat/Percentage/Amount Range Card To Card Transfer ✓ Surcharge Enable/Disable → Amount → Flat/Percentage/Amount Range Account To Account Transfer ✓ Surcharge Enable/Disable → Amount → Flat/Percentage/Amount Range Account To Account Transfer ✓ Surcharge Enable/Disable → Amount → Flat/Percentage/Amount Range	Time/Date			comiguration part.
Reversal Password Maintenance Operator Supervisor Transaction wise surcharge configuration Cash Advance Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Card To Card Transfer Account To Account Transfer Flat/Percentage/Amount Range Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Flat/Percentage/Amount Range Amount Flat/Percentage/Amount Range Flat/Percentage/Amount Range				
Password ✓ Operator ✓ Supervisor Transaction wise surcharge configuration Cash Advance — Surcharge Enable/Disable — Amount — Flat/Percentage/Amount Range Cash Deposit — Surcharge Enable/Disable — Amount — Flat/Percentage/Amount Range Card To Card Transfer — Surcharge Enable/Disable — Amount — Flat/Percentage/Amount Range Card To Card Transfer — Surcharge Enable/Disable — Amount — Flat/Percentage/Amount Range Account To Account Transfer — Surcharge Enable/Disable — Amount — Flat/Percentage/Amount Range — Account To Account Transfer — Surcharge Enable/Disable — Amount — Flat/Percentage/Amount Range — Amount — Flat/Percentage/Amount Range				
Cash Advance Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Cash Deposit Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Card To Card Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Flat/Percentage/Amount Range Amount Flat/Percentage/Amount Range	Password	✓ Operator		
• Amount • Flat/Percentage/Amount Range Cash Deposit • Surcharge Enable/Disable • Amount • Flat/Percentage/Amount Range Card To Card Transfer • Surcharge Enable/Disable • Amount • Flat/Percentage/Amount Range Account To Account Transfer • Surcharge Enable/Disable • Amount • Flat/Percentage/Amount Range Account To Account Transfer • Surcharge Enable/Disable • Amount • Flat/Percentage/Amount Range			figuration	
Surcharge Card To Card Transfer Card To Card Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Surcharge Enable/Disable Amount Surcharge Enable/Disable Flat/Percentage/Amount Range Flat/Percentage/Amount Range			AmountFlat/Percentage/Am	nount Range
Card To Card Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range Account To Account Transfer Amount Amount Flat/Percentage/Amount Range	Surcharge	Cash Deposit	• Amount	
Account To Account Transfer Surcharge Enable/Disable Amount Flat/Percentage/Amount Range	23.3.10.80	Card To Card Transfer	Surcharge Enable/DAmount	isable
		Account To Account Transfer	Surcharge Enable/DAmount	isable
		Payment		





		Amount	
		Flat/Percentage/Amount Range	
	Select Issuer		
	Cash Advance	Enable/Disable	
		PIN Enable/Disable	
		 Manual Entry Enable/Disable 	
	Cash Deposit	Enable/Disable	
		PIN Enable/Disable	
		 Manual Entry Enable/Disable 	
	Adjust	Enable/Disable	
		PIN Enable/Disable	
		 Manual Entry Enable/Disable 	
	Balance	Enable/Disable	
		PIN Enable/Disable	
		 Manual Entry Enable/Disable 	
Transactio	Card To Card Transfer	Enable/Disable	
n		PIN Enable/Disable	
Attribute		 Manual Entry Enable/Disable 	
	Account To Account Transfer	Enable/Disable	
		PIN Enable/Disable	
		 Manual Entry Enable/Disable 	
	PIN Change	Enable/Disable	
		PIN Enable/Disable	
		 Manual Entry Enable/Disable 	
	LogOn	Enable/Disable	
		PIN Enable/Disable	
		 Manual Entry Enable/Disable 	
	Payment	Enable/Disable	
		PIN Enable/Disable	
		Manual Entry Enable/Disable	

- ✓ Batch
- ✓ Receipt
- ✓ VOID
- ✓ Settlement
- √ Logo Download
 - o Need to have provision to add new logo for new Institute.
- ✓ Report
 - o Transaction Log Report to analyze dispute.
 - Operator wise transaction report





Software Requirements Specification of POS Application

- o Daily Detail Transaction Details and Summary Report
- ✓ Test
- ✓ Parameter Download
 - Need to have provision to download terminal configuration parameter from organized text document.
- ✓ Key Download
- ✓ Power Off

NB: These are the major options in our Application. It may arise other options during development time.

1.4 List of Transactions of Merchant POS

Name of Transaction	Description
Sale	Basic transaction of Merchant POS Application on behalf of
	purchasing goods by cardholder without PIN and TIPs.
Sale (PIN Based)	Same transaction of above with PIN.
Sale (with Tips)	Same transaction of above with TIPs.
VOID	A reversal transaction for any unsuccessful transaction at terminal end.
Refund	Merchant will able to make this transaction when customer intends to return purchased good to merchant. This transaction will have contains some basic information of base transaction.
Pre-Auth	A purchase transaction which transaction amount will on hold at Issuing host until Pre-Auth Completion transaction is not initiating from terminal.
Pre-Auth Completion	Merchant can able to make Online Pre-Auth Completion
 Online Pre-Auth Completion Offline Pre-Auth Completion 	transaction and Offline Pre-Auth Completion as per configuration.
•	If merchant want to ensure Pre-Auth amount at Pre-Auth
	Completion time then Online Pre-Auth Completion transaction will be initiate from terminal.
	If merchant want to settle Pre-Auth amount at settlement time then Merchant will initiate an Offline TIP adjustment transaction from terminal. At settlement time these transactions will send as advice transaction from terminal to HOST.
TIP Adjust	Merchant can able to make Online TIP Adjustment transaction and
 Online TIP Adjustment Offline TIP Adjustment 	Offline TIP Adjustment as per configuration.
<u>-</u>	If merchant want to ensure TIP amount at TIP Adjustment time then Online TIP Adjustment transaction will be initiate from terminal.





Software Requirements Specification of POS Application

	If merchant want to settle TIP Adjustment transaction at settlement time then Merchant will initiate an Offline TIP adjustment transaction from terminal. At settlement time these transactions will send as advice transaction from terminal to HOST.
Log On	A transaction which will used to get session key from Acquiring
	HOST to make any PIN based transaction further.

Initial Screen [Tab page]

Sale	Menu	
Reprint	Settlement	

1.5 Transaction Flow:

- ✓ Swipe/Insert Card OR Enter Card Number
- ✓ Expire Date (MM/YY): [If manually Transaction]
- ✓ Enter CVV: [If manually Transaction]
- ✓ Cash Amount:
- ✓ Enter PIN(Configured)

*** <u>"Cash Back"</u> option should be there also. If <u>"Cash Back"</u> is enabled then it will ask if the Customer want to do <u>"Cash Back"</u> transaction Cash Back

Menu:

- ✓ Transactions
 - o Sale
 - o Void
 - o Refund
 - o Pre Auth
 - 1. Pre Auth
 - 2. Pre Auth Complete Online or Offline
 - o Tip
 - o Tip Adjust Online or Offline
 - o Payment
 - 1. Bill Payment
 - 2. Prepaid
 - 3. Mobile Top Up
 - o LogOn
 - Settlement





Software Requirements Specification of POS Application

✓ Configuration:

Object Object Bronouties		B
Name	Object Properties	Description
PABX		
Terminal	✓ STAN ✓ PABX Access Code ✓ PABX Delay ✓ Dial Type ✓ Host Time Out ✓ User Time Out ✓ Tech Password ✓ Tipping ✓ Invoice ✓ Logo ✓ Screen Logo ✓ No Blind Dial ✓ Settle Receipt ✓ Select Account Enable ✓ Decline Receipt ✓ Receipt Prompt ✓ Receipt Line 1 ✓ Receipt Line 2 ✓ Receipt Line 3 ✓ Receipt Line 4 ✓ Agree Line 1 ✓ Agree Line 3 ✓ Agree Line 3 ✓ Agree Line 4 ✓ Company Copy(New) ✓ Beep Enable	Need to add a new print label for Transaction Statement i.e. Company Copy. For different types of Institute it will configure i.e. for Bank- EBL Copy, Merchant- X Merchant Copy.
Acquirer	Select Acquirer ✓ Index Number ✓ Host Name ✓ Primary ✓ Secondary ✓ Settle Primary ✓ Settle Secondary ✓ Carrier Time Out ✓ Retry ✓ NII ✓ Terminal ID ✓ Merchant ID ✓ Batch Number	Host Access will be configured in Two ways IP Address Enabled Domain Address Enabled. POS Management Team will enable any one of Two options and input Host Access information.





	(N . D . L	I
	✓ Next Batch Number	
	✓ Protocol Type	
	✓ Sync Mode	
	✓ Batch ID	
	✓ APN	
	✓ Host Access	
	o TCP/IP Mode	
	1. Primary IP	
	Address	
	2. Primary Host	
	Port	
	3. Secondary IP Address	
	4. Secondary Host	
	Port	
	o Domain Mode	
	1. Domain	
	Address	
	✓ Currency	
	✓ Connection Type	
	✓ Currency Code	
	✓ Country Code	
	✓ Min Purchase Amount	
	✓ Max Purchase Amount	
	✓ Cash Back Check	
	Select Card	
	✓ Card Number	
Card Table	✓ Low	Low and High need to extend min
	✓ High	12 character.
	✓ Issuer ID	
	✓ Acquirer ID	
	Select Issuer:	
	✓ Index Number	
	✓ Card Label	
✓ Card Laber ✓ Checking Option		
	✓ Cash Out Option	
Issuer ✓ Cash Out Option ✓ Option 7		
	✓ Default Account	
	✓ Floor Limit	
	✓ EMV PIN Bypass	
	✓ MagStripe PIN	
Payment	✓ Bill-Payment Vendor	 It may need to add a no of
,	✓ Pre-Paid Vendor	vendor as payment
	✓ Mobile Top Up Vendor	vendor at terminal end.





			 These vendors need to configuration with basic information i.e. Vendor ID, Vendor Account etc, In the Prepaid transaction – Prepaid vendor provider account will be configured. At transaction time there are a no of input fields may require to input billing information i.e. customer registration no or bill account no, bill serial no, phone no, billing month etc. For different vendor the text of labels of these input fields may need to change. All fields of Payment information may not require for any of one Payment vendor. So the label and correspond field will be needed to Enable or disable at payment configuration part.
Time/Date			
Clear			
Reversal			
Password	✓ Maintenance✓ Operator✓ Supervisor		Need Operator wise password change option.
	Transaction wise surcharge con	1	
	Sale		nable/Disable
Surcharge		• Amount	
			tage/Amount Range
	Payment	_	nable/Disable
		Amount	to an /Amanust David
		Flat/Percen	tage/Amount Range





	Select Issuer		
	Sale	Enable/Disable	
		PIN Enable/Disable	
		Manual Entry Enable/Disable	
	Sale (with Tips)	Enable/Disable	
		PIN Enable/Disable	
		Manual Entry Enable/Disable	
	Void	Enable/Disable	
		PIN Enable/Disable	
		Manual Entry Enable/Disable	
	Refund	Enable/Disable	
		PIN Enable/Disable	
		Manual Entry Enable/Disable	
	Pre-Auth	Enable/Disable	
	1.12.1.000	PIN Enable/Disable	
		Manual Entry Enable/Disable	
Transaction	Online Pre-Auth Completion	Enable/Disable	
Attribute	, , , , , , , , , , , , , , , , , , ,	PIN Enable/Disable	
/ terribate		Manual Entry Enable/Disable	
	Offline Pre-Auth Completion	Enable/Disable	
	ommer regram completion	PIN Enable/Disable	
		Manual Entry Enable/Disable	
	Online TIP Adjustment	Enable/Disable	
		PIN Enable/Disable	
		Manual Entry Enable/Disable	
	Offline TIP Adjustment	Enable/Disable	
	omme in Augustment	PIN Enable/Disable	
		Manual Entry Enable/Disable	
	Settlement	Enable/Disable	
	Settlement	PIN Enable/Disable	
		Manual Entry Enable/Disable	
	LogOn	Enable/Disable	
	Payment	Enable/Disable Enable/Disable	
	Tayment	PIN Enable/Disable	
		Manual Entry Enable/Disable	
	Print Customor Signature	·	
	Print Customer Signature Part	Enable/Disable	
	Print Sur-Charge Amount	Enable/Disable	
	Print Acquirer Top Logo		
Invoice Print	Print Acquirer Top Logo Print Acquirer Name Bottom	·	
	•	Enable/Disable Frackle/Disable	
	Payment	Enable/Disable PIN Frable (Picable)	
		PIN Enable/Disable Manual Fator Facility (Disable)	
		Manual Entry Enable/Disable	





Software Requirements Specification of POS Application

- ✓ Batch
- ✓ Receipt
- ✓ VOID
- ✓ Settlement
- ✓ Test
- ✓ Logo Download
 - Need to have provision to add new logo for new Institute.
- ✓ Report
 - o Transaction Log Report to analyze dispute.
 - Operator wise transaction report
 - o Daily Detail Transaction Details and Summary Report
- ✓ Test
- ✓ Parameter Download:
 - Need to have provision to download terminal configuration parameter from organized text document.
- ✓ Key Download
- ✓ Power Off

NB: These are the major options in our Application. It may arise other options during development time.

1.6 List of Transactions of Attendance POS

Name of Transaction	Description	
Balance Inquiry (Non-PIN Based)	A non-PIN based Balance Inquiry transaction to get cardholders	
	presence.	
Balance Inquiry (PIN Based)	A PIN based Balance Inquiry transaction to get cardholders	
	presence.	
Log On	A transaction which will used to get session key from Acquiring	
	HOST to make any PIN based transaction further.	

1.7 Transaction Flow:

Initial Screen [Tab Page]

Attendance	Menu
Void	Function

Attendance:

- ✓ Enter Password:
- ✓ Swipe/Insert Card
- ✓ Enter PIN





Software Requirements Specification of POS Application

Menu:

- ✓ Transactions
 - o Attendance
 - o PIN Change
 - o LogOn
- ✓ Configuration:

Object Name	Object Properties	Description
PABX		
Terminal	✓ STAN ✓ PABX Access Code ✓ PABX Delay ✓ Dial Type ✓ Host Time Out ✓ User Time Out ✓ Tech Password ✓ Tipping ✓ Invoice ✓ Logo ✓ Screen Logo ✓ No Blind Dial ✓ Settle Receipt ✓ Select Account Enable ✓ Decline Receipt ✓ Receipt Prompt ✓ Receipt Line 1 ✓ Receipt Line 2 ✓ Receipt Line 3 ✓ Receipt Line 4 ✓ Agree Line 3 ✓ Agree Line 2 ✓ Agree Line 3 ✓ Agree Line 3 ✓ Agree Line 4 ✓ Company Copy(New) ✓ Beep Enable	Need to add a new print label for Transaction Statement i.e. Company Copy. For different types of Institute it will configure i.e. for Project- EGPP Copy
Acquirer	Select Acquirer ✓ Index Number ✓ Host Name ✓ Primary ✓ Secondary ✓ Settle Primary	Host Access will be configured in Two ways IP Address Enabled Domain





	✓ Settle Secondary	Address
	✓ Carrier Time Out	Enabled.
	✓ Retry	POS Management
	✓ NII	Team will enable
	✓ Terminal ID	any one of Two
	✓ Merchant ID	options and input
	✓ Batch Number	Host Access
	✓ Next Batch Number	information.
	✓ Protocol Type	information.
	✓ Sync Mode	
	✓ Batch ID	
	✓ APN	
	✓ Host Access	
	o TCP/IP Mode	
	1. Primary IP Address	
	2. Primary Host Port	
	3. Secondary IP Address	
	4. Secondary Host Port	
	o Domain Mode	
	1. Domain Address	
	✓ Currency	
	✓ Connection Type	
	✓ Currency Code	
	✓ Country Code	
	Select Card	
	✓ Card Number	
Card	✓ Low	Low and High
Table	✓ High	need to extend
	✓ Issuer ID min 12 character	
	✓ Issuer ID ✓ Acquirer ID	
	Select Issuer:	
	✓ Index Number	
	✓ Card Label	
le	✓ Checking Option	
Issuer	✓ Option 7	
	✓ Default Account	
	✓ Floor Limit	
	✓ Floor Limit EMV	
	✓ EMV PIN Bypass	
	✓ MagStripe PIN	
Time/Dat		
е		
Clear		
Reversal		





Software Requirements Specification of POS Application

Dassword	✓ Maintenance	Need Operator
Password	✓ Operator	wise password
	✓ Supervisor	change option.

- ✓ Batch
- ✓ Receipt
- ✓ VOID
- ✓ Settlement
- √ Logo Download
 - Need to have provision to add new logo for new Institute.
- ✓ Report
 - Transaction Log Report to analyze dispute.
 - Operator wise transaction report
 - o Daily Detail Attendance Report
- ✓ Test
- ✓ Parameter Download
 - Need to have provision to download terminal configuration parameter from organized text document.
- ✓ Key Download
- ✓ Power Off

NB: These are the major options in our Application. It may arise other options during development time.

2 Host System & Protocol Overview

Protocol Overview	
Transaction Authorization Host TW-Online	
Transaction Message Protocol TITP	
Network Communication Protocol	TCP/IP (Client-Server)