# 

# Guru99 Banking Project

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# 

# Software Requirements Specification

# 

# 1.3

# 

# 25/10/2013

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# Prepared for

# Guru99.com

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# Revision History

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|  |  |  |  |
| --- | --- | --- | --- |
| Date | Description | Author | Comments |
| 25/10/2013 | Version 1 | Sam Patrick | Initial Draft |
| 30/10/2013 | Version 1.1 | Sam Patrick | Added section 5.Change management process |
| 5/11/2013 | Version 1.2 | Sam Patrick | Added section 3.7 Design constraints |
| 15/11/2013 | Version 1.3 | Sam Patrick | Typo;s Fixed |

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# Document Approval

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# The following Software Requirements Specification has been accepted and approved by the following:

|  |  |  |
| --- | --- | --- |
| Printed Name | Title | Date |
| Nick Price | Lead Software Engg. | 19/11/2013 |
| Sam Patrick | Lead QA Engineer | 18/11/2013 |
| Krishna Rungta | Project Sponsor | 19/11/2013 |

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# 1. Introduction

# The Guru99 Bank project aims to provide net banking facility to its customers.

# This release will have limited features. Over a period of time , new and new functionalities will be added to the site.

# 1.1 Purpose

# The Purpose of this document is to outline the requirements for the Guru99 Banking website to be developed for Guru99 Tech. Pvt. Ltd. This document will be used by all stakeholders including developers and testers.

# 1.2 Scope

# The scope of this project is limited to the testing of the features described in the succeeding sections of this document.

# Non-functional testing like stress,performance is beyond scope of this project.

# Automation testing is beyond scope.

# Functional testing & external interfaces are in scope and need to be tested

# The banking site will be only compatible with Chrome version 27 and above

# 1.3 Definitions, Acronyms, and Abbreviations

|  |  |
| --- | --- |
| Abbreviation | Word |
| M | Manager |
| C | Customer |

# 1.4 References

# Nil

# 2. Specific Requirements

# The Guru99 Bank will have 2 roles

# Manager

# Customer

# Following features/modules will be available to these 2 different roles

|  |  |
| --- | --- |
| Manager | Customer |
| New Customer | Balance enquiry |
| Edit Customer | Fund Transfer |
| Delete Customer | Mini Statement |
| New Account | Customized Statement |
| Edit Account | Change Password |
| Delete Account | Login & Logout |
| Deposit |  |
| Withdrawal |  |
| Fund Transfer |  |
| Change Password |  |
| Balance Enquiry |  |
| Mini Statement |  |
| Customized Statement |  |
| Login & Logout |  |

# Description of the modules

|  |  |  |
| --- | --- | --- |
| Module Name | ApplicableRoles | Description |
| Balance Enquiry | ManagerCustomer | Customer: A customer can have multiple bank accounts. He can view balance of his accounts onlyManager: A manager can view balance of all the customers who come under his supervision |
| Fund Transfer | ManagerCustomer | Customer: A customer can have transfer funds from his “own” account to any destination account.Manager: A manager can transfer funds from any source bank account to destination account |
| Mini Statement | ManagerCustomer | A Mini statement will show last 5 transactions of an accountCustomer: A customer can see mini-statement of only his “own” accountsManager: A manager can see mini-statement of any account |
| Customized Statement | ManagerCustomer | A customized statement allows you to filter and display transactions in an account based on date, transaction valueCustomer: A customer can see Customized- statement of only his “own” accountsManager: A manager can see Customized -statement of any account |
| Change Password | ManagerCustomer | Customer: A customer can change password of only his account.Manager: A manager can change password of only his account. He cannot change passwords of his customers |
| New Customer | Manager | Manager: A manager can add a new customer. |
|  | Manager | Manager: A manager can edit details like address, email , telephone of a customer. |
| New Account | Manager | Currently system provides 2 types of accountsSavingCurrentA customer can have multiple saving accounts (one in his name , other in a joint name etc).He can have multiple current accounts for different companies he owns.Or he can have a multiple current and saving accounts.Manager: A manager can add a new account for an existing customer. |
| Edit Account | Manager | Manager: A manager can add a edit account details for an existing account |
| Delete Account | Manager | Manager: A manager can add a delete an account for a customer. |
| Delete Customer | Manager | A customer can be deleted only if he/she has no active current or saving accountsManager: A manager can delete a customer. |
| Deposit | Manager | Manager: A manager can deposit money into any account. Usually done when cash is deposited at a bank branch. |
| Withdrawal | Manager | Manager: A manager can withdraw money from any account. Usually done when cash is withdrawn at a bank branch. |

# 2.1 External Interface Requirements

# 2.1.1 User Interfaces

# None

# 2.1.2 Hardware Interfaces

# None

# 2.1.3 Software Interfaces

# None

# 2.1.4 Communications Interfaces

# None

# 3.1 Front End Details

# This section describes the Front end of Guru99 Bank.

# It also lists a few use cases to describe the functioning of the system

# Following is a list of module wise fields

# Fund Transfer

# Payers account no

# Payees account no

# Amount

# Submit

# Reset

# Change Password

# Old Password

# New Password

# Confirm Password

# Submit

# Reset

# Balance enquiry

# Account No

# Submit

# Reset

# Mini Statement

# Account No

# Submit

# Reset

# Customized Statement

# Account No

# From Date

# To Date

# Amount Lower Limit

# Number Of Transaction

# Submit

# Reset

# New Customer

# Customer Name

# Gender

# Date of Birth

# Address

# City

# State

# PIN

# Telephone Number

# Email Id

# Submit

# Reset

# New Account

# Customer Id

# Account Type

# Initial deposit

# Submit

# Reset

# Deposit

# Account Number

# Amount Deposit

# Description

# Submit

# Reset

# Withdraw

# Account Number

# Amount

# Description

# Submit

# Reset

# Delete Customer

# Customer Id

# Submit

# Reset

# Edit Account

# Account Number

# Submit

# Reset

# Form after submitting Edit Account

# Customer Id

# Account Type (Drop Down - Saving or Current)

# Balance

# Submit

# Reset

# Delete Account

# Account Number

# Submit

# Reset

# Edit Customer

# Customer Id

# Submit

# Reset

# Form after submitting Edit Customer

# Customer Name

# Gender

# Date of Birth

# Address

# City

# State

# PIN

# Telephone Number

# Email Id

# Submit

# Reset

# 3.2 Technical Requirements

# New Account

# T1 Customer Id - Customer ID is required

# T2 Customer Id - Special character are not allowed

# T3 Customer Id - Characters are not allowed

# T3.1 Customer Id - First character cannot have space

# New Customer

# T4 Customer Name – Numbers are not allowed

# T5 Customer Name – Special characters are not allowed

# T6 Customer Name - Customer name must not be blank

# T7 Customer Name - First character cannot have space

# T8 Address - Address Field must not be blank

# T9 Address - First character can not have space

# T10 Address - Special characters are not allowed

# T11 City - Special character are not allowed

# T12 City - City Field must not be blank

# T13 City – Numbers are not allowed

# T14 City - First character can not have space

# T15 State – Numbers are not allowed

# T16 State - State must not be blank

# T17 State – Special characters are not allowed

# T17.1 State – First character cannot have space

# T18 Pin - Characters are not allowed

# T19 Pin - PIN Code must not be blank

# T20 Pin – Special characters are not allowed

# T21 Pin – PIN Code must have 6 Digits

# T22 Pin - First character can not have space

# T23 Telephone Number – Mobile no must not be blank

# T24 Telephone Number – Special character are not allowed

# T25 Telephone Number – Character are not allowed

# T26 Telephone Number - First character can not have space

# T27 Email : Email ID must not be blank

# T28 Email : Email ID is not valid

# T29 Email : First character can not have space

# Balance Enquiry

# T30 Account No must not be blank

# T31 Special character are not allowed

# T32 Characters are not allowed

# 

# Customized Statement Form

# T33 Account No - Account Number must not be blank

# T34 Account No - Characters are not allowed

# T35 Account No - Special characters are not allowed

# T36 Amount Lower Limit – Special character are not allowed

# T37 Amount Lower Limit – Amount Lower Limit is required

# T38 Amount Lower Limit – Characters are not allowed

# T39 Number of Transaction – Special character are not allowed

# T40 Number of Transaction - Number of Transaction must not be blank

# T41 Number of Transaction – Character are not allowed

# Delete Account Form

# T42 Account No must not be blank

# T43 Special character are not allowed

# T44 Characters are not allowed

# Delete Customer

# T45 Customer Id - Customer ID is required

# T46 Customer Id - Special character are not allowed

# T47 Customer Id - Characters are not allowed

# T47.1 Customer Id - First character cannot have space

# Deposit

# T48 Account No must not be blank

# T49 Special character are not allowed

# T50 Characters are not allowed

# T51 Amount field must not be blank

# T52 Special characters are not allowed

# T53 Characters are not allowed

# T54 Description must not be blank

# 

# Edit Account

# T55 Account No must not be blank

# T56 Special character are not allowed

# T57 Characters are not allowed

# Edit Customer form

# T58 Customer Id - Customer ID is required

# T59 Customer Id - Special character are not allowed

# T60 Customer Id - Characters are not allowed

# T60.1 Customer Id - First character can not have space

# Edit Customer

# T61 Address - Address Field must not be blank

# T62 Address - First character can not have space

# T63 Address - Special characters are not allowed

# T64 City - Special character are not allowed

# T65 City - City Field must not be blank

# T66 City – Numbers are not allowed

# T67 City - First character can not have space

# T68 State – Numbers are not allowed

# T69 State - State must not be blank

# T70 State – Special characters are not allowed

# T70.1 State – First character cannot have space

# T71 Pin - Characters are not allowed

# T71 Pin - PIN Code must not be blank

# T72 Pin – Special characters are not allowed

# T73 Pin – PIN Code must have 6 Digits

# T74 Pin - First character cannot have space

# T75 Telephone Number – Mobile no must not be blank

# T76 Telephone Number – Special character are not allowed

# T77 Telephone Number – Character are not allowed

# T78 Telephone Number - First character cannot have space

# T79 Email : Email ID must not be blank

# T80 Email : Email ID is not valid

# T81 Email : First character cannot have space

# Fund Transfer

# T82 Payers Account Number must not be blank

# T83 Special characters are not allowed

# T84 Characters are not allowed

# T85 Payees Account Number must not be blank

# T86 Special characters are not allowed

# T87 Characters are not allowed

# T88 Amount Field must not be blank

# T89 Characters are not allowed

# T90 Special characters are not allowed

# T91 Description cannot be blank

# 

# Login

# T92 User-ID must not be blank

# T93 Password must not be blank

# Mini Statement Page

# T94 Account No must not be blank

# T95 Special character are not allowed

# T96 Characters are not allowed

# Change Password

# T97 Old Password must not be blank

# T98 New Password must not be blank

# T99 Enter at-least one numeric value

# T100 Enter at-least one special character

# T101 Choose a difficult Password

# T102 Confirm Password must not be blank

# T103 Passwords do not Match

# Withdraw

# T104 Account No must not be blank

# T105 Special character are not allowed

# T106 Characters are not allowed

# T107 Amount Field must not be blank

# T108 Characters are not allowed

# T109 Special characters are not allowed

# T110 Description cannot be blank

# 3.3 Functional validations

# Balance Enquiry

# Manager

# F1 Manager can view balance of accounts associate with him

# F2 Account number entered should exist in database

# Customer

# F3 Customer can view balance of only his accounts

# F4 Account number entered should exist in database

# Fund Transfer

# Manager

# F5 If these source and destination account numbers are invalid, system displays an error

# F6 If these source and destination account numbers are same, system displays an error

# F7 If the source account does not have the necessary balance, system displays an error

# F8 If the source account does not associated with manager, System displays an error

# Customer

# F9 If the destination account number is not valid, system displays an error

# F10 If these source and destination account numbers are same, system displays an error

# F11 If the source account does not have the necessary balance, system displays an error

# F12 If the source account is not associate with customer itself, System displays an error.

# Withdrawal

# Manager

# F13 If source account number is invalid, system displays an error

# F14 If source account does not have the necessary balance, system displays an error

# F15 If source account does not associate with manager, System displays an error.

# Customer

# F16 If source account number is invalid, system displays an error

# F17 If source account does not have the necessary balance, system displays an error

# F18 If source account does not associate with customer, System displays an error.

# Deposit

# Manager

# F19 If destination account number is invalid, system displays an error

# F20 If destination account number does not associate with manager, System displays an error.

# Customer

# F21 If destination account number is invalid, system displays an error

# F22 If destination account number does not associate with customer, System displays an error.

# Delete Customer

# Manager

# F23 If Customer Id is invalid, system displays an error.

# F24 If account associate with Customer Id, System displays an error.

# F25 If Customer Id does not associate with manager, System displays an error.

# Delete Account

# Manager

# F26 If Account Number is invalid, system displays an error

# F27 If account does not associate with manager logged in, System displays an error.

# Edit Account

# Manager

# F28 If Account Number is invalid, system displays an error.

# F29 If Account number does not associate with manager, System displays an error.

# New Account

# Manager

# F30 If Customer ID is invalid, system displays an error.

# F31 If initial deposit is less than 500, System displays an error.

# F32 If Customer Id does not associate with manager, System displays an error.

# New Customer

# Manager

# F33 If same Email Id exist in the system, system shows an error.

# Edit Customer

# Manager

# F34 If same Email Id exist in the system, system shows an error.

# F35 If Customer Id is invalid, System displays an error.

# F36 If , System displays an error.

# Change Password

# Manager

# F37 If Old Password is invalid, System shows an error.

# Customer

# F38 If Old Password is invalid, System displays an error

# Customized Statement

# Manager

# F39 If account no is invalid, System displays an error

# F40 If From Date is greater than To Date, System dispalys an error.

# Customer

# F41 If account no is invalid, System displays an error

# F42 If From Date is greater than To Date, System dispalys an error.

# Mini Statement

# Manager

# F43 If account no is invalid, System displays an error

# F44 If transaction not exist in system, System displays an error.

# F45 If account not associate with manager itself, System displays an error.

# Customer

# F46 If account no is invalid, System displays an error.

# F47 If account associate with customer itself, System displays an error.

# Balance Enquiry

# Manager

# F48 If account no is invalid, System displays an error

# Customer

# F49 If account no is invalid, System displays an error

# 3.4 Classes / Objects

# 

# 3.5.1.1 Attributes

# 3.5.1.2 Functions

# 3.5 Non-Functional Requirements

# Nil

# 3.6 Inverse Requirements

# Nil.

# 3.7 Design Constraints

# Many of the Guru99 Bank users may not have adequate computer knowledge to use the site. Hence, System must be intuitive and easy to understand.

# 3.8 Logical Database Requirements

# Nil

# 3.9 Other Requirements

# Nil

# 4. Analysis Models

# Nil

# 5. Change Management Process

# Changes to the SRS either from the development, testing team or the client side will be communicated to the project sponsor Mr Krishna Rungta.

# Any change made to the SRS will require a sign off from the Development lead , QA lead and the client.

# Once approved changed will be made to the SRS and the new SRS will be circulated to all stakeholders

# A. Appendices

# Nil

# 