<Groww>

**Investment Banking Web Application**

**Business Requirement**

**Document**

**Amendment History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Version**  **Date** | **Updated By** | **Change History** | **Approved**  **By** |
| 1.0.1 | 7/18/2023 | Ayush Srivastava |  | Mr. N Srinivasan |
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**Approved and Sign- off**

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| **S.No.** | **Name** | **Title** | **Organization/ Company** | **Approved Date** |
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**Glossary**

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| --- | --- |
| **Abbreviation** | **Definition** |
| **BRD** | **Business Requirement Document** |
|  |  |
|  |  |

**Module Analysis**

**Modules In Project:**

1. **New Account**

Opening an account is possible through Internet. Account ca be opened in following methods explained below.

Account :

* **Trading Account**

Input

Customer Details

Output

Alert message.

* **Listed Product Searching**

Input

Securities Name/Details

Output

Matching Securities

* **Product Filtering based on attribute**

Input

Select desired attribute of Securities

Output

Matching Securities

* **Product Sorting based on attribute**

Input

Select desired attribute of Securities

Output

Matching Securities

* **Product Portfolio**

Input

Click the desired Security’s Icon.

Output

Stats and Trend Page.

Security’s real-time rate

* **Add to Cart option**

Input

*Adding Item to Cart*

Click add to cart.

Open cart

Click on check out Cart.

*Removing Item from Cart*

Open cart

Delete Items from cart

Delete all Items from cart

Output

*Adding Item*

Item Added to Cart

Item processed for payment

*Removing Item from Cart*

Cart empty

Check out option disabled

* **Creating Watch List**

Input

Click on Create watch list

Enter watch list name

Select Desired Securities from List.

Output

Item Added to watch list

Portfolio of Watch list item available on top of user dashboard

* **Transaction detail**

Previous history of transaction visble.

* **Stocks Holdings**

List of holding shares in DMAT account visible

* **Order Status**

User able to track status of order placed (bought or sold).

* **Add money**

User banking account shall be connect with DMAT as well as Trading Account.

* **Groww Pay Bill Payments**

User able to pay and receive money from any merchant through UPI ID ,QR Code scan and bank account Details using its connected Bank account.

1. **Administration**

Account Types:

Opening an account is possible through Internet. Account can be opened in the following methods explained below.

* **Trading Account**

Input

Customer Details

Output

Alert message

* **PCI Compliant**
* **View Payment Transaction info**
* **View details of existing orders**
* **Ability to log different changes to data**
* **Set various permission to groups (Admin, user , customer service)**
* **Add marketing message to frontend User dashboard**

**Database Design**

|  |  |  |
| --- | --- | --- |
| **Customer Details** | | |
| **Full Name** | **Data Type** | **Description** |
| Cust. code | Char(7) | Customer Code(Primary key) |
| APPLICATION\_No | Number(1) | Application Number( 1 or 2 ) |
| ACCOUNT\_NO | Char(8) | Account Number |
| ACCOUNT\_NO2 | Char(8) | Second Account Number |
| CUST\_FNAME | Varchar(25) | Customer father’s name |
| CUST\_MNAME | Varchar(25) | Customer Mother’s name |
| HOUSE\_NO | Varchar(25) | Customer address |
| STREET1 | Varchar(25) | Customer address first Street |
| STREET2 | Varchar(25) | Customer address second Street |
| AREA | Varchar(25) | Customer address Area |
| CITY | Varchar(25) | Customer city |
| PIN | CHAR(6) | Customer address pincode |
| STSST\_CODE | CHAR(6) |  |
| RES\_PHONE | CHAR(6) | Resident phone number |
| CELL\_PHONE | CHAR(6) | Customer Cell phone number |
| EMAIL | Varchar(30) | Customer Email ID |
| NO\_YEARS\_ADDRESS | Number(2) |  |
| PROFESSION | Varchar(25) | Customer’s profession |
| ORGANIZATION | Varchar(25) | Customer’s organization |
| WORKING\_SINCE |  | Customer’s working details |
| DESIGNATION | Varchar(25) | Customer’s designation |
| OFF\_DOOR\_NO | Varchar(25) | Customer’s office door number |
| OFF\_STREET | Varchar(25) | Customer’s office street number |
| OFF\_AREA | Varchar(25) | Customer’s office area |
| OFF\_CITY | Varchar(25) | Customer’s office street |
| OFF\_PIN | Char(6) | Customer’s office Pincode |
| OFF\_STATE\_\_CD | Char(2) | Customer’s office state |
| OFF\_PHONE | Char(13) | Customer’s office phone number |
| PAN\_GIRN | Char(10) |  |
| GENDER | Char(1) | Customer’s gender |
| BIRTH\_DATE | Date | Customer’s Birth date |
| MAR\_STATUS | Char() | Customer’s marital status |
| REL\_FIRST\_APP | Varchar(25) |  |
| EDUCATION | Varchar(25) | Customer’s Education |
| MARITAL STATUS | Number() | Customer’s marital status |
| GUARDIAN\_NAME | Varchar(25) | Customer’s Guardian name |

|  |  |  |
| --- | --- | --- |
| **Account Details** | | |
| **Field Name** | **Data Type** | **Description** |
| ACCOUNT\_NO | Char(8) | Account Number (Primary Key) |
| ACC\_CAT | Char(1) | Account Category\* |
| OPERATOION\_MODE | Char(1) | Operation Maode# |
| OPEN\_DATA | Date | Opening Date |
| BALANCE\_LIMIT | Number(10,2) | Balance Account |
| INT\_NAME | Varchar(25) | Introducer’s Name |
| INT\_ACC\_NO | Char(8) | Introducer’s Account Number |
| BRANCH | Varchar(20) | Introducer’s Branch |
| KNOW\_APPLICATION | Number(2) | Introducer’s knows application since number of months. |

|  |  |  |
| --- | --- | --- |
| **State Details** | | |
| **Field Name** | **Data Type** | **Description** |
| State CD | Char(2) | Account type code (Primary key) |
| State\_ Name | Varchar(30) | State Name |

|  |  |  |
| --- | --- | --- |
| **Transaction table** | | |
| **Field Name** | **Data Type** | **Description** |
| ACCOUNT\_NO | Char(8) | Account Number |
| TRANS\_TYPE | Char(1) | Transaction Type |
| TRANS\_DESC | Varchar(25) | Transaction details |
| AMOUNT | Number(0,2) | Amount |
| TRANS\_DATE | Date | Transaction date |
| TRANS\_MODE | Char(8) | Transaction Mode |
|  |  |  |
| **Order Details** | | |
| **Field Name** | **Data Type** | **Description** |
| Security Name | Varchar(25) | Security Name |
| Reg. ID | Number(0,2) | Registration ID |
| Stock Freeze Price | Number(0,2) | Price of stock realtime.`````` |
|  |  |  |

**Dataflow Graph**



**Function flow**





**Project Overviews**

Groww Operates in India security exchange market through a Investment banking business model for commercially partners and consumers Residential cutomers.

On behalf of Groww, T System provide investment banking application to operate for INDIA to mange general investment banking problem into the Indian Peninsula.

Customer data bank is hosted in DSB Singapore HQ. this data bank provides full customer data to give to ‘one stop’ portal to manage all consumer’s profiles and transactional data where these are manged in data bank as well.

**Project Objectives**

Primary objective of the project is to develop a properly working Investment banking frame work,

* To facilitating easy Fund withdrawal and deposit to the Bank account.
* To facilitate easy buying of stock from security exchange market.
* To help the user to research about a certain firm using the Research tab.
* To provide investment banking facility with minimum fee and charges throughout the process investment process thereby creating a revolution in current market.

The main source of income of firm will be generated from Brokerage fee charged after each transaction. DMAT account holding fee for keeping stocks. And transaction charge of 0.25 % on each transaction from Bank account trading account.

**Project Scope**

**Introduction**

The project aims to develop an Investment banking application that could cater the need of modern generation investors. The look and feel of the application should be good enough that could hold the interest of user. Making investment work easy, interactive and engaging.

Identify the stakeholders involved in the project.

Define the scope of the Business Requirement Document (BRD).

**Business Objectives**

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**Current State Analysis**

Right now company has enough resources and technology to lid down foundation to currently required business framework. However the Application system require a reboot for making software more robust and easy work flow with implementation of recently developed business model and better facilities that lead to overall growth of the Brand.

Identify existing challenges, pain points, and opportunities for improvement..

**User Requirements**

Today everyone in the community want to grow their existing money. Hence they are eager to invest their money but the harsh truth of current Indian society is that they hesitate to invest in security market. Because of following misconception:

* Thinking investment in security market is tedious and time consuming.
* Thinking investment in security market is reserved for certain group of people.

With our strong and broad User experience frame work and easy to understand user interfaces that help user to get acquainted with their desired companies who’s stocks they are interested in. There should be a separate research tab for user take a deep look into the portfolio of stock.

**System Requirements**

* Software requirement : There are times when the requirements of a problem are reasonably well understood when work flow from communication through deployment in a reasonable linear fashion. This situation is sometimes encountered when well defined adaptations or enhancements to an existing system must be made .

It may also occur in a limited number of new development effort. But only when requirements and progress through planning, modeling, construction and deployment, culminating in on going support of the completed software.

* Hardware Requirements:

Processor : Intel P-IV based system

Processor Speed : 1GHz to 2.2 GHz

RAM : 256 MB to 512 M



**Major Requirements**

|  |  |  |
| --- | --- | --- |
| **BR #** | **Descripsion** | **Remark** |
| BR01 | Collection of Customer details for Sign in Successful | -- |
| BR02 | Ensure Successful Login | -- |
| BR03 | User Dashboard Available | -- |
| BR04 | Admin Dashboard available | -- |
| BR05 | Customer service Dashboard available | -- |
| BR06 | Availability of Watchlist for user | -- |
| BR07 | Availability of securities’s portfolio | -- |
| BR08 | Can Check out available funds of user | -- |
| BR09 | User should be able to trade capture | -- |
| BR10 | User should be able to add securities to the cart | -- |
| BR11 | Can add / withdraw money from bank account | -- |
| BR12 | Ensure order confirmation | -- |
| BR13 | Ensure order validation | -- |
| BR14 | Ensure booking of order | -- |
| BR15 | Sending of transaction record to user Email | -- |
| BR16 | Successful settlement between front and back office by end market close | -- |
| BR17 | Track the settlement period. | -- |
| BR18 | Client account should be maintained at back office. | -- |
| BR19 |  |  |

**Project Schedule**

December

November

October

September

August

July