-: Requirements:-

R1: System Authenticate users through Secure Login.

Description: User provide system access after once user is authenticated through secure login feature.

R1.1: System Provides e-Registration form for Money Lenders who are interested to use our Money Lending Management System as website (platform).

R1.1.1: Registration form contain field to take general information of user like full-name, address, city, contact number, email-id and custom username and password (validated after authentication of user) etc.

R1.1.2: Registration form also contain custom customer's username and password field which is validated after authentication of valid user.

R1.2: System read register details of user.

Input: Enter register details by user. (As per R1.1)

Output: Read registration details.

Description: System read register details filled in registration form.

R1.3: System store register detail of user database.

Input: Read register detail

Output: Store to users-database

Description: System store register details of registration form.

R1.4: System verify user by admin.

Input: added user through registration.

Output: valid_user flag.

Description: System admin check added user in database and after cross-verification with user, admin authenticate user for login and set valid_user=true.

R1.5: System Authenticate user.

Input: Username and password (separately taken in e-registration form)

Output: Website access for authenticated user (authenticate_user flag)

Description: System check username and password in database if it is valid user then system access is given to user (authenticate_user flag=true).

R2: System manages users

R2.1: System store record of each authenticated user based on registered information.

Description: Valid users by admin are authenticate to access system and their register information is store to database.

R2.2: System provide separate (database) connection to each user.

Description: System provide different database connection to manage different user's customer account.

R3: System add new Account on basis of items taken as mortgage with its customer information and manage customer details.

Input: customer details.

Output: Add customer detail for new customer's account.

Description: User create new account of customer by adding customer details.

R3.1: System provide Customer form (customer_info webpage) to add customer information for account.

R3.1.1: Customer form field include customer's full-name, address, city, mobile number, email id, aadhar number, etc. to unique identification of customer.

R3.1.2: System is available only for people of specific city and nearer villages.

R3.2: System read customer detail filled in form.

Input: Customer details in customer account form. (As per R3.1)

Output: Read customer details.

Description: System read customer information from filled in new customer account form.

R3.3: System check added customer detail in past-stored customer account record.

Input: Read customer details.

Output: customer_exist flag.

Description: System read customer information from filled customer account form and match with past stored customer accounts (in database) if match found then set customer_exist flag=true and it display "customer exist" message, else set customer_exist flag=false means match not found.

R3.4: System provide reset or edit facility for added customer details in customer's account.

Description: User can edit or reset filled customer details in customer form of customer's account.

R3.5: System store details of customer in customer account database.

Input: read customer details from new customer account form

Output: Store to database.

Description: System store new customer account detail to database.

R4: System Provide interface to add mortgage items of customer to added customer account.

Input: mortgage items of customer. (With added customer_details)

Output: added mortgage items for customer account.

Description: Items taken as mortgage from customer are added to customer account.

R4.1: System can accept only Gold, Silver or Platinum metal jewellery to taken as mortgage from customer.

R4.1.1: System provide selection category for gold or silver or platinum for corresponding ornaments.

R4.1.2: System Display different jewellery items (ornaments) based on selection category (Gold or Silver or Platinum).

R4.2: System enables user to add multiple items of mortgage to customer account.

Input: Mortgage items of customer.

Output: Add items for mortgage.

Description: User can add one or more mortgage items to customer account.

R4.3: System enable user to remove multiple items of mortgage if they are previously added items.

Input: Mortgage items of customer.

Output: Remove items for mortgage.

Description: User can remove one or more mortgage items from customer account.

R4.4: System add mortgage item details.

R4.4.1: Read final weight and equivalent mortgage amount of customer mortgage items.

Input: Final weight and equivalent mortgage amount.

Output: Read final weight and equivalent mortgage amount.

Description: User input final weight and equivalent mortgage amount which describe mortgage items equivalent mortgage amount is final total amount that is provided to customer on mortgage items.

R4.4.2: System store weight and mortgage amount detail in database.

Input: Read weight and equivalent mortgage amount.

Output: Added weight and equivalent mortgage amount for mortgage items.

Description: User add customer mortgage item list with its total weight and equivalent mortgage amount.

R5: System manages items of customer taken as mortgage.

Input: Added customer mortgage items in customer account

Output: Organized customer mortgage items of customer's account.

Description: added mortgage items for customer account are manages (handle) by user.

R5.1: System generate unique 4 digit reference number for mortgage items of customer account.

R5.1.1: System link reference number to mortgage items of customer (internally).

Description: System generate 4 digit reference no for unique identification of different customer mortgage items.

R5.2: System Provide user to add reference place which describe physical location of mortgage items.

Description: user can add reference place which describe physical location of customer's mortgage items so user locate mortgage items.

R5.3: System enable user to verify mortgage items detail and customer details of customer account from customer.

Input: Added mortgage items in customer account.

Output: Verify_account flag.

Description: System review customer account before storing so that user conforms add account to database so if account verification is success then set verify_account flag=true means now customer account is valid so user can add it.

R5.4: System add credit amount to customer account.

R5.4.1: System read credit amount to customer account.

Input: Credit amount on mortgage items taken by customer.

Output: Read credit amount taken by customer.

Description: User add first time credit amount of customer to account.

R5.5: System Store reference detail of mortgage items and credit amount to its customer account.

Input: Added mortgage items with weight and mortgage amount.

Output: added reference and credit amount to customer account.

Description: System store reference no and reference place to mortgage items info in database and credit amount is stored as transection.

R6: System search for past customer accounts record (to view transection record).

Input: Search text.

Output: Search result.

Description: User perform search operation in previously added customer account and display search result as customer account if search found.

R6.1: System enable user to search customer account by name, reference number, city, mobile number etc..

R6.2: System read user input to search accordingly (refer R6.1).

Input: Search text.

Output: Search result.

Description: user enter search input is search in customer account database if match found then customer account display.

R7: System display previous customer account transection from search result.

R7.1: Search result format contain name, city and reference number.

R7.2: System prepare report of customer's account transection from searched account.

R7.2.1: Report includes date-wise record of customer account transection.

R7.2.2: System display customer's account transection.

R7.2.2.1: System display equivalent amount (in Rupees) for items taken mortgage from customer.

R7.2.2.2: System display total credit-debit money of customer account.

Description: Customer's account transection which show date-wise credit and debit transection of customer account with equivalent mortgage amount.

R7.3: System enable user to print customer's account transection report.

R8: System manages transection of customer account.

Input: Customer account transection report from search section.

Output: Updated customer account transection.

Description: User add debit or credit amount as per transection by customer and mortgage amount that to be return by customer is calculated on interest rate.

R8.1: System search customer account to update (refer R6).

R8.2: System display searched customer's account past transection (refer R7).

R8.3: System verify customer account from customer details.

Description: From search customer account user can view customer account detail with its transection so user can verify it from customer which validate customer.

R8.4: System update customer account transection.

Input: Credit or debit amount.

Output: Updated customer account transection.

Description: User update credit or debit amount transection of customer to account.

R8.4.1: System Read amount based on type of transection on customer account.

Input: Credit or debit amount for customer account.

Output: Read credit or debit amount.

Description: User credit or debit to customer account based on customer choice.

R8.4.2: System add credit amount to customer account.

Description: System add credited amount transection to customer account if credit amount is less than mortgage equivalent amount.

R8.4.2.1: System check credit amount with equivalent amount.

Input: Credit amount of customer account

Output: Valid_credit_amount flag

Description: User credit to customer account if customer desire credit amount (by customer) is less than or equal to equivalent mortgage amount which set valid_credit_amout=true.

R8.4.2.2: System store credited money of customer account transection.

Input: Valid credit amount

Output: Store to customer account as credit transection

Description: System store valid credit amount given to the customer by user in customer account transection in database.

R8.4.3: System add debit amount to customer account .

Description: System add debited amount transection to customer account on basis of interest rate calculation.

R8.4.3.1: System calculate interest rate on mortgage money.

R8.4.3.1.1: System calculate simple interest rate on mortgage items of customer if transection time is below 1 year from date item taken as mortgage

R8.4.3.1.2: System calculate compound interest rate on mortgage items of customer if transection time is above 1 year.

Input: Interest rate on mortgage amount.

Output: Final mortgage amount to be returned by customer

Description: Mortgage amount that customer will have to return on his mortgage items is calculated with interest rate based on time elapsed for specific mortgage items according to R8.4.3.1.1 and R8.4.3.1.2.

R8.4.3.2: System store debited money of customer to its account transection.

Input: Debit amount of customer

Output: Store debit amount to customer account as debit transection

Description: System store debit amount that customer paid to user in customer account transection in database.

R8.5: System allow user to close customer account.

Description: user can clear customer account if user is fulfilled by mortgage amount return by customer on mortgage items.