FUNCTIONAL SPECIFICATION DOCUMENT

SOLIS FINANCIAL PRODUCT

OCTOBER 27, 2023

Document Change History

Version	Date	Description of changes	Author	Reviewer	Comments
1.0	27/10/2023	Initial draft of Functional Requirements	Louis Yelifari		

Contents

1. Document Information

1.1 Context and Perspective

The purpose of this document is to outline the requirements for the Solis Finance Product that seeks to;

- Digitize a community-based savings & loans scheme (popularly known as SUSU) to track contributions of its members.
- Provide a report and dashboard for monitoring of activities and operations of the scheme.

1.2 Document Scope

The scope of this document is to provide a functional understanding of the features and functions required to satisfy the solution.

- Functional requirements
- Use Cases
- Business Rules & Logic
- Project Plan and Roadmap
- Product acceptance criteria.

1.3 Out of Scope

- Solution design and architecture
- Technology stack & implementation information

2. Solis Financial Product

2.1 Our understanding of the requirement.

The Savings and loans scheme as it is now.

i. Members of the community make a savings contribution of an agreed amount every week into a joint Ledger.
ii. A secretary is designated to collect and record each members contribution into the Ledger.
iii. The Secretary records the date, name and amount of the contribution.
iv. Contributions (funds) are saved in the Box as a way of safeguarding the money.
v. At the end of each year, the Box is opened in the presence of all members and the money distributed accordingly, along with any interest accrued.
vi. Members of the scheme are allowed to take a loan from the account, of not more than 10% of his/her individual contribution. The loan is repaid with an interest.
vii. A duration of repayment and interest rate is agreed upon by all members of the scheme.
viii. Repayment of the loan is expected within the specified period.

Requested solution will digitize the above scheme using Mobile App and USSD technology.

i. Create a Mobile App to serve as a digital Ledger for collections and contributions.
ii. Integrate the Mobile App solution with a Bank (Solis Bank) to provide real time accounts of the contributions.
iii. Use the Mobile App as an avenue for members of the scheme to make contribution payments, track activities and request loan facilities.
iv. Provide a detailed statement of accounts from both the Ledger and the Bank Account.

2.2 Proposed Solution

1. Features

The solution will comprise of 2 distinct parts; Mobile App & USSD Short code service

<u>Mobile App</u>

i. The Mobile App will serve as a Ledger for members in the scheme.
ii. It will keep records of payments made and the corresponding Bank balance from the Bank Account.

iii. It will be enabled with a functionality to pay via MoMo (extendable to banks).
iv. There will be 3 account types (screens) for this App; Admin account, Member account and Dashboard (web-based application).
v. The admin account will have the privilege to pay on behalf of other members, set interest rates and initiate Loan request on behalf of members. Payments can be made via cash or Momo.
vi. **Contribution**: Cash payments administered by the admin account will be required to be manually recorded into the Ledger. Successful log will trigger an SMS to the member as a form of a payment receipt.
vii. **Loan Request**: Admin will initiate loan request on behalf of the of requesting member in the presence of all members of the scheme. All members will be required to thump print to give approval for loan request. An SMS will be triggered to all members as a receipt. NB: The thumbprint of member will ne captured during the sign-in period.

USSD Short code service

i. Members Can make payment contribution via the USSD.
ii. Member can view statement of accounts via the USSD.

2. Use case Scenarios.

Case 1 – Registration of Service

i. Admin downloads App/ Installs APK unto Tablet & creates Group Account eg. Songtaaba SUSU group.
ii. Members are registered by the Admin. (Members can also register by themselves provided they know/have the Group account ID).
iii. Members register by providing the following information; Name, Age, Mobile Number, thumbprint, etc
iv. Joint Bank account is created.
v. Service is fully set up

Case 2 – Contribution of savings

i. Contribution is made to Admin. Admin logs payment information on the Mobile App.
ii. SMS is triggered to Member as a form of a payment receipt.
iii. Contribution can also be made directly from member's Mobile App or MoMo wallet.
iv. Ledger is automatically updated, and all users of the App will be able to view payment Status.

Case 3 – Requesting for Loan

i. Member puts in a request for a loan.
ii. Admin enters the details in the app: Requester, Amount, etc.
iii. Other members of the scheme provide approval by thumbprinting onto the App.

iv. Funds are with drawn into a mobile money wallet or any POS.
v. Notification alert is sent to all members via SMS.
vi. Computation is done at the backend.

Case 4 – Repayment of loan.

i. Repayment of loan is done to the Admin.
ii. Admin logs it in under loan repayment.
iii. Notification alert is sent to all members via SMS.
iv. Computation of loan repayment is done at the back end.

Case 5 – Disbursement of funds at the end of the cycle.

i. At the end of the savings cycle, total receivables include principal and interest is automatically computed and disbursed into single Momo account for subsequent disbursal.
ii. Funds could also be disbursed into member MoMo wallets.
iii. Or total cash withdrawn from Bank Account and subsequently disbursed.

2.3 Business Rules/ Logic

i. Only members should have access to the app……
ii. ……
iii. ……

3. Project Plan/Roadmap

1. Requirement gathering, analysis and approval – 1 week
2. User interface design – 3 weeks
3. Contract Negotiations and Signoff
4. Mobile App & Dashboard planning and development – 3 weeks
5. Backend planning and development – 3 weeks.
6. Technical Testing and fine tuning – 1 week
7. User Acceptance testing – 1 Month
8. Final contract commitment.
9. Go-live.

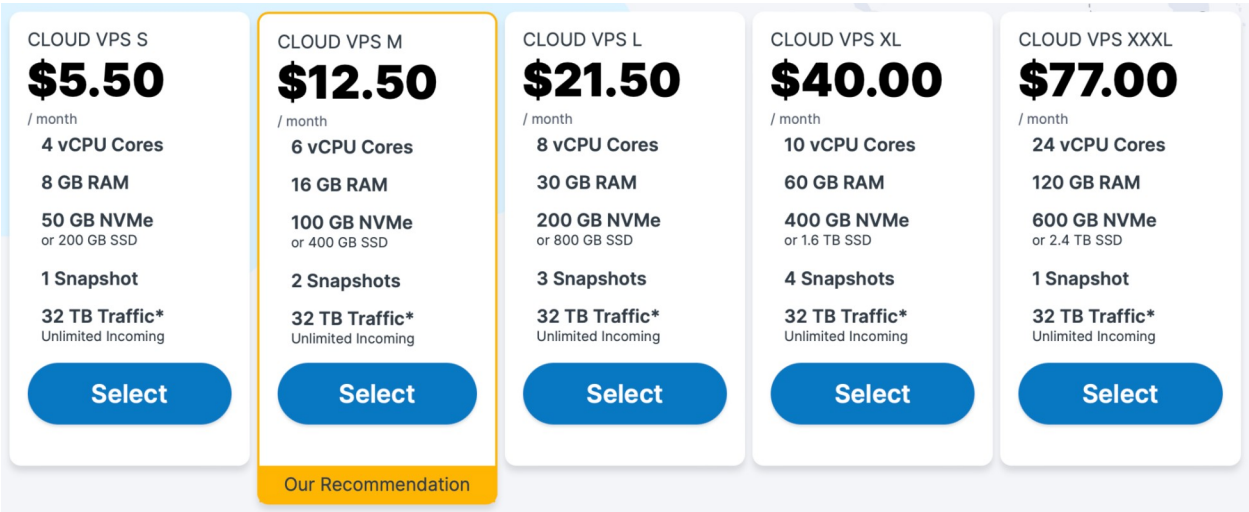
4. Acceptance Criteria

i. Fully functional digital solution of the above requirements.
ii. ……
iii. ……


5. Approvals

Position	Name	Signature	Date

1. The current cost of hosting the backend servers is estimated to be in the range of $25-$35 a month.
   A vendor named Contabo offers VPS at a rate of $5.50 a month.



   They have 4 packages available.
   1 Month
   3 Months
   6 Months
   12 Months

2. We would need to purchase a domain with SSL connection in order to secure requests between the app and backend. Domain prices are not fixed but typically range between $8 and $20 per year.
3. Internet cost is about GHS 520 a month. Vodafone network was recently reconnected.