System Development Report

Eligibility criteria

- 1. Guardian must be a registered self-help group member, and the child must be registered for funding.
- 2. Guardian must have contributed actively for at least 6 months
- 3. Guardian must be an active participant in group initiatives.

Funding rules.

- 1. Funds are divided proportionately if insufficient. (Use of a scaling factor).
- 2. All eligible members get equal opportunity to funding.
- 3. Primary school students are automatically rejected.

Maximum funding limits

- 1. JSS: Up to Ksh 1,000
- 2. Senior Secondary: Up to Ksh 10,000.
- 3. Tertiary: Up to Ksh 15,000.

How the system works

Application Submission:

- Students apply for funding via Google Forms.
- Responses are automatically stored in Google Sheets.
- Data Processing (After Deadline): The stored data from Google Sheets is retrieved by Google Apps Script (A cloud-based scripting computer language that will check for one's eligibility and give out results).

Admin runs the script after the application deadline.

- The script verifies eligibility of applicants
- Funds are distributed proportionally based on available funds.

Report Generation:

 A PDF summary report (approved & rejected applicants + allocated amounts) is generated.

What is in the google form

- 1. Applicant's full name
- 2. Guardian's full name
- **3.** Guardian's membership number
- **4.** Phone number
- **5.** Level of education applying for (multiple choice)
 - i. Junior Secondary (JSS)
 - ii. Senior Secondary

iii. Tertiary

- 6. Name of school/institution
- 7. Guardian's Contribution and activity
 - ➤ Has the guardian been an active contributor for at least six months? (Yes/No)
 - ➤ Does the guardian actively participate in the group's activities (yes/No).

Computing the Ideal request total for when funds are limited

We use scaling factor for this:

Scaling factor = $=\frac{Available\ funds}{Ideal\ request\ total}$

Final allocation = max funding × Scaling factor

Therefore, if scaling factor = 1, all applicants get their max amount.

If scaling factor < 1, applicants get a proportionally reduced amount.

Example calculations

Let's say available funds are Ksh 50,000

However, we have

- > 10 JSS students (each max Ksh 1,000 → total Ksh 10,000)
- > 5 Senior Secondary students (each max Ksh 10,000 → total Ksh 50,000)
- > 5 Senior Tertiary students (each max Ksh 10,000 → total Ksh 75,000)

Therefore, total requested amount is (10,000 + 50,000 + 75,000) = 135,000Scaling factor works this way = 50,000/135,000 = 0.37

Hence, final allocations;

JSS: $1,000 \times 0.37 = \text{Ksh } 370 \text{ per student}$

Senior Secondary: $10,000 \times 0.37 = \text{Ksh } 3,700 \text{ per student}$

Tertiary: $15,000 \times 0.37 = \text{Ksh } 5,550 \text{ per student}$

What the App Script code will do

- 1. The admin will trigger the script to start calculating one's eligibility
- 2. The script will ask admin to key in available funds.
- 3. The script will filter out ineligible applicants based on:
 - Guardian must be a registered self-help group member, and the child must be registered.
 - Guardian must have actively contributed for at least 6 months.
 - Guardian must participate in group initiatives.

4. The script will process eligible applicants by:

Categorize applicants by education level (JSS, Senior Secondary, Tertiary).

Assign maximum possible funding:

- a. JSS: Max Ksh 1,000
- b. Senior Secondary: Max Ksh 10,000
- c. Tertiary: Max Ksh 15,000
- 5. The script will generate a PDF report with:
 - a. All applicants (approved and rejected)
 - b. Allocation amounts
 - c. Total funds distributed
 - d. Remaining balance
- 6. The PDF report will automatically be emailed to the admins.