

# Project Proposal Document

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**Project Title:** *FamiLynk: Keeping Families in sync*

## **Problem Statement:**

Many Filipino households struggle to manage daily tasks, schedules, and responsibilities. This often results in missed bill payments, forgotten chores, wasted food, and disorganized routines. With family members juggling school, work, and personal activities, it becomes difficult to maintain coordination and accountability. There is a need for a centralized, user-friendly tool that can help families stay organized, connected, and efficient.

## **Project Objectives**

The project aims to:

1. Provide a shared calendar to help families coordinate schedules and complete at least 80% of tasks on time.
2. Reduce wasted food and missed maintenance by at least 80% through pantry tracking, expiration monitoring, and repair reminders.
3. Create a single platform that combines features of existing apps while tailoring them to the needs of Filipino families.

## **Planned Features**

Shared Family Calendar – synchronize events, deadlines, and appointments.

Synced Grocery List – real-time updating for collaborative shopping.

Bill Tracker with Reminders – avoid missed or late payments.

Pantry Tracking & Expiration Monitoring – prevent food waste.

Chore & Repair Reminders – assign and track household responsibilities.

## **Planned Inputs and Outputs**

### **Inputs:**

User logins and family member profiles.

Calendar entries (events, tasks, deadlines).

Grocery list items, pantry stock, and expiration dates.

Bill information (due dates, amounts, categories).

### **Outputs:**

Notifications and reminders (bills, chores, tasks, expiration alerts).

Organized calendar with completed/unfinished task reports.

Summaries of household activities and responsibilities.

### **Logic Plan**

1. User Login → Select Family Group
2. Input Data (events, chores, bills, groceries, etc.)
3. System Processes inputs → syncs across family devices.
4. System Generates Outputs (reminders, recipe suggestions, task updates).
5. Users Receive Notifications/Updates → complete tasks → progress tracked.

### **PSEUDOCODE**

START

DISPLAY "Welcome to FamILynk"

USER logs in or creates account

IF login successful THEN

    LOAD family group data

ELSE

    PROMPT user to register or retry login

END IF

LOOP

    DISPLAY Main Menu:

1. Manage Calendar
2. Manage Grocery List
3. Track Bills
4. Pantry & Expiration
5. Chores & Repairs
6. Exit

    GET user choice

user choice OF

1:

INPUT event/task details

SAVE to shared calendar

SEND notification to family members

2:

INPUT grocery item

UPDATE synced grocery list

DISPLAY updated list

3:

INPUT bill details (due date, amount)

SAVE to bill tracker

SET reminder notification

4:

INPUT pantry item + expiration date

STORE data

IF item nearing expiration THEN

NOTIFY user

END IF

5:

INPUT chore or repair task

ASSIGN to family member

SET reminder notification

6:

DISPLAY "Thank you for using FamILynk"

EXIT program

END