# Requirements

## Functional Requirements

## Calendar Widget

* Allow users to add, edit, and delete events
* Color code each event by user - default user will be “all” for all family members.
* Allow recurring events
* Default to daily view on mobile and calendar view on larger devices.
* Ability to switch between day, week, and month views on any device.
* Choose between all-day and timed events.

## Weekly Meals Widget

* Users can add meals for breakfast, lunch, dinner, and snack.
* Color code meals based on user - default user will be “all” for all family members.
* Ability to add recurring meals and store “favorites” for quick clicking instead of entering the meal manually.

## Recipes Widget

* Users can add, edit, and delete recipes.
* Ability to add ingredients directly to shopping list.

## Grocery List Widget

* Manual entry of items or added items from Meals/Recipes
* No double entry - system check if item exists and does not add if item exists.
* This is its own view.
* Track status of “complete”, format with strikethrough, keep strikethrough on item even if app is closed and reopened.

## To-Do List Widget

* Color code tasks based on which user the task is assigned to.
* Prevent duplicate tasks.
* This is its own view
* Track status of “complete”, format with strikethrough, keep strikethrough on task even if app is closed and reopened

## Annual To-Do List Widget

* 12 boxes for each month.
* Color code tasks based on which user the task is assigned to.
* Prevent duplicate tasks within a month, but allow for overall duplicates for tasks that need to be done multiple times per year.
* This is its own view.
* Track status of “complete”, format with strikethrough, keep strikethrough on task even if app is closed and reopened

## Weekly Goals Widget

* Lists users of the app, including “all” for whole family goals.
* Color code user names and items next to user names.
* Weekly goals carry from week to week if not completed.
* Track status of “complete”, format with strikethrough, keep strikethrough on goal even if app is closed and reopened

## Manage Family Widget

* Allow family administrators to add, edit, and delete users.
* Allow family administrators to choose which widgets to have on their weekly meeting page.
* Allow family administrators to choose which navigation options they see.
* This is its own view

## Chores Widget

* Allow users to add, edit, and delete chores.
* Assign point values to chores.
* Allow users to note who completed the chore and receives the associated points.
* Keep running total of points for each user.
* Create “rewards” and points cost of rewards.
* Subtract points from running total when reward is redeemed.
* This will be its own view

## Navigation widget (included on each view)

* Have navigation buttons to each view.
* Buttons can be turned on or off depending on what the family chooses in their Manage Family widget.

## Main Screen View

* Calendar widget
* To-do list widget
* Weekly goals widget

## Meal Prep View

* Weekly meals widget
* Meals/recipes widget

## Weekly Meeting View

* Allow users to move widgets around to suit their needs and how they want to conduct their family meetings.
* Only show “this week’s” calendar to promote “weekly planning”
* Pull in widgets so that updates on weekly meeting view automatically updates other views and widgets.

## Non-Functional Requirements

## Usability

The app shall be easy to use for both tech-savvy and non-tech users, including grandparents and children

## Responsiveness

The app shall adjust layout based on device size (phone, tablet, TV display)

## Accessibility

The app shall follow basic accessibility standards (font sizes, contrast, alt text)

## Performance

The app shall load calendar and meal data within 2 seconds on a standard internet connection

## Availability

The app shall be available 99% of the time via Firebase Hosting

## Security

The app shall use Firebase Authentication to secure family data and access

## Scalability

The system shall support growth from 1 to 100+ families without performance degradation

## Portability

The app shall run on all modern browsers, Android, and iOS devices

## Maintainability

The app source code shall be version-controlled and documented to allow future updates.