

MISSOURI STATE UNIVERSITY  
DEPARTMENT COMPUTER SCIENCE

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## Family Organization

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# 1 Family Organization

## 1.1 Software Description

We plan to make a family organization app. It is a web application meant to keep track of tasks, events, and we also hope to have a file upload function for photos and documents. The application will be scale-able, as we don't yet know how big the project will become. If we have extra time, we also plan to enhance all the features and introduce intersectionality to connect them. I have arranged the tasks we will design from least to most difficult. On some tasks, I have also written what functions we may add to them if the person completing them has extra time to work on them.

## 2 Functions

### 2.1 To-Do List

A To-Do List for each person in the family will be used. It will have checkboxes for each task. It will also have the ability to add, update, or delete tasks as needed.

### 2.2 Recipes

Recipes can be added to the calendar on a "Meal Plan" function. Recipe ingredients will be sent to the "Shopping List" feature in the To-Do List.

### 2.3 Polling App

Members of the family will be able to create polls and vote based on their preferences for events, tasks, or recipes.

### 2.4 Calendar

We plan to find a framework for a calendar and edit it to suit our needs. The goal is to implement it so that anyone may add, edit, or delete events from the calendar.

### 2.5 Chat Feature

Family members can communicate with each other over the web application, as well as respond to certain events.

## **2.6 File Upload**

The web application will be able to receive and store files, such as photos or important documents. The goal may eventually be to send/receive said files in the chat feature.

## **3 Extra Functions (if we have extra time)**

### **3.1 To-Do List**

A more advanced form of this would be to add a “Shopping List” feature to whoever in the family does shopping. It will include grocery materials that need to be bought for the weekly meal plan. Another advanced form of this would have automatically regenerating tasks that repeat every set number of days for chores that are done on a set schedule.

### **3.2 Recipes**

Recipes can be added to the calendar on a “Meal Plan” function. Recipe ingredients will be sent to the “Shopping List” feature in the To-Do List.

### **3.3 Polling App**

A more advanced form of this would be to add the results of the poll to the calendar or the To-Do List, such as adding a chosen event to the calendar.

### **3.4 Calendar**

We can add the to do list to the calendar for specific family members, with a filter option to only show your or your children’s tasks. There could also be a color code functionality to separate family member tasks and events.

### **3.5 Authorization**

If someone has completely finished their work, they may be tasked with adding a prior authorization feature, where you have to log in as a specific family member to view the Family Organization App. They may also be given or restricted from certain permissions, such as the ability to manipulate the To-Do Lists, the Calendar, and the Recipes.