

MISSOURI STATE UNIVERSITY
DEPARTMENT COMPUTER SCIENCE

Family Organization

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1 Family Organization

1.1 Software Description

We plan to make a family organization and interaction application. It is a web application meant to keep track of different kinds of interactions a family might have, whether that be meal planning, creating a shopping list, or just keeping track of family events. Each functionality is meant to be customizable to fit the users' needs. We also plan to add authorization to offer security to the users, ensuring that important knowledge and data stays within the family. The application will be scale-able through additional modules that add different functionalities, as we don't yet know how big the project will become. Modules are listed and explained below, with modules we believe we can feasibly implement in the allotted time under section 2 and any additional proposed modules listed under section 3.

2 Functions

2.1 Basic Functionality

- Basic authentication with email and password
- User will be able to create a family entity
- User will be able to add other users to their family
- User will be able to assign family roles to members of their family
- Users will only be able to access data for families they are part of

2.2 Proposed Modules

- To-Do List: A To-Do list for each person in the family, to-dos will be colored to represent the different family members. Ability to create, read, update, and delete tasks will be included. Proposed module would have filters for viewing specific tasks or viewing other family member's tasks.
- Calendar: A calendar of all family events and individual events. We picture this module being particularly helpful in keeping track of the extra curricular activities that children have as well as planning family meetings, etc. Like the to-do list, the calendar events should be color coded per family member for a better user experience

when viewing the calendar and filters should be included. The Calendar should have the ability to create, read, update, and delete calendar events.

- Polling App: Members of a family can create polls for other family members to participate in. We see this being used for things like planning family events, picking a movie for a family night, picking out meals to eat for the week from a list of possibilities, etc.

3 Extra Functions (if we have extra time)

3.1 Proposed Modules

- Shopping List: A simple list of items to get while at the store. Members of the family should be able to add to the list, remove items from the list, and update items. This should be a list of items with the corresponding quantities.
- Meal Planner: For the Meal Planner module, the user would be presented with a 7 day calendar view where they can plan meals for the week. This could work with the shopping list with the ability to export the ingredients needed for each meal to the shopping list with appropriate quantities. We see users having the ability to add their own recipes as well as publish them to be used by other families.
- Family Chat: The Family Chat module would be a simple group chat feature, where families can have a conversation that doesn't clog up their SMS inboxes as well as be available to family members without phone access.
- Shared File Uploads: With this module, family members would have the ability to upload files that others in the family would be able to access. It could be anything from a shared photo album to a vacation itinerary.