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Family Schedule Application

Project Step 2: Gather Requirements

Primary Users: Guardian(s)

Justification: The mother and father are both the head of the household, so they will have to make the most appointments and keep track of everyone. They need to know what everyone is up to, especially the kids. They not only need to manage their own schedule but also the kid's schedule. In total they will have to manage everyone's schedule and have them work together.

Requirement gathering technique and rationale:

We used the questionnaire technique for gathering data to inform us of the requirements we needed to satisfy for functional, data, and environmental. Allowing for a collection for sufficient, and relevant data. The reason for using a questionnaire was to reach a larger group of people. Our users range in age groups and we wanted to hear feedback from all types of family dynamics. The questionnaire also gave the ability to ask open and closed questions, gather qualitative and quantitative data, as well as construct a questionnaire to get specific feedback. This also allows for an extended time period to take the questionnaire as well as at their own time. This works well for busy parents and kids who would be the individuals using the application. We also wanted to reach a larger variety of individuals from all over the globe. Doing an online questionnaire allows us to post to different groups like Facebook, Tumblr, Reddit, and friends.

Categorize Collected feedback:

Functional requirements

What the system should do:

- The system will store events in a calendar format. This will include options for daily, weekly, and monthly options. The ability to set recurring events and copy paste them. Easy to change the time segments as well as renaming. The calendar can be viewed as the

full family schedule but you can also view in groups for example family schedule, parent schedule, kid schedule, or your own schedule.
- The system will give a notification at a requested time prior to an event (if notifications requested). This can be in the form of a reminder pop up or an alarm.
- Colour coordination options.
- The system will only allow specific users (i.e. the parents) to add, edit, and remove events. It would also allow them to hide certain events. For example, a surprise party or more private events if they want to share the schedule with another user. Other users will have less access.

Data requirements

Kinds/types of data to be stored
- It will store the different accounts of each user, and there are also different types of users, that vary inaccessibility to the application. The account will specify if they are a parent or child, their name, and a unique colour associated with that individual when viewing the full family schedule.
- The system will store the events in a calendar format.

Environmental requirements

Circumstances in which the product will be expected to operate
- The application functions on all types of cellular device.
- The data needs to be shared in an asynchronous way. Two different people can take turns editing and adding to the data.
- The environment may be quiet or loud and busy. Users may use the system in any condition.

Usability requirements

Characteristics of the intended user group
- Novice users should be able to use the application. Even young children should be able to navigate the application easily. Step-by-step instructions for the first time use
- Constrained interaction and clear information. It will be frequently used and memorable.
- Should easily be able to import and export schedule.

Two scenarios

Mom scenario -Primary User
1. Karen, a busy mom of two, is at work when her child's dentist calls to make an appointment. Karen needs to set an appointment date at that time but she is not home to see her paper calendar. Instead, she opens her new family planning app to see which evening is best to take her kids to the dentist. She has a notification that her oldest child

had sent a request to add an event on Monday evening for a friend's birthday party. Karen decides not to book the dentist appointment on Monday. The dentist tells Karen that in two weeks from now they have the most openings. Karen opens the weekly view and jumps two weeks ahead. She can see all the family events happening for that week and sees that Tuesday at 3 pm is the best option since the kids don't have any events on that day.

Dad scenario -Primary User
2. Bob, a father of four, is doing grocery shopping when his family planning app sends him a notification that his son Michael has a doctor's appointment in half an hour. Bob knows that he has to pick him up from school to take him there, so he finishes the shopping and drives to the school. While waiting in the car, his mother calls him because she wants to see her grandchildren on the weekend. Bob opens the family planning app to see the events his family has scheduled for the weekend. He notices that none of them has an event on Saturday from 2 pm to 5 pm, so he adds a new event saying that his mother is coming by. After ending the phone call, he sees that Kyra, a friend of his, is also waiting to pick up her child. Bob remembers that his daughter Melissa wanted to meet up with Kyra's daughter. He goes over to Kyra and they discuss when the best time would be for that. Bob looks up Melissa's events for the following week in the family planning app and after deciding on a day with Kyra, he adds a new event for Melissa.

Child scenario -Secondary User
3. Mark is sitting with his friends during lunch at his middle school. Mark's friend's birthday is next week and he wants Mark to come to his birthday party. His friend tells him that the birthday party will be on Wednesday night. Mark opens the family scheduling app and adds an event for Wednesday night at 7 pm called "Joey's birthday party". Marks parents get a notification that an event is requested. Mark's parents see that no other plans are made for Wednesday and allow Mark to attend the birthday party. The birthday party event is now on the family calendar.

Child Scenario -Secondary User
1. Noah is in his last year of high school. He and his friends like to party, but Noah's parents don't allow him to drink or go to parties. All of Noah's friends want him to throw the graduation party at his parent's house. Since his parents would never let it happen, Noah looks at the family calendar. He sees that his mom has a girls night out overnight at Susan's house, and his dad has a business meeting in a different city. Noah decides to choose that day to throw a house party.

a. This scenario could be avoided or managed with the ability to hide events from users or not disclosing all the information
b. It can also be avoided syncing the app up with a smart lock and have it watch for the door activity to tell if the door is being opened an unusual amount or left open for a long period of time.