

Executive Summary

FamilySync helps families stay connected by providing the tools they need in order to quickly and efficiently schedule events that other members can see.

Criteria

Efficiency

- Susan will be able to quickly find the date she is looking for [Priority 2]
- Susan will be able to add an event quickly without need of a lot of information [Priority 1]

Learnability

- Susan will know what to do only after a couple times of using the app [Priority 3]

Familiarity

- Susan will see icons she has seen before [Priority 2]
- Susan will recognize the similar calendar layout from before [Priority 2]

Simplicity

- Susan will be able to clearly create a mental model as she can for her current app [Priority 3]

Mapping

- Susan, from the interface, will be able build a mental model that matches the systems. [Priority 2]

Motivation

- Susan will want to use the app and schedule things [Priority 3]

Trust

- Susan will not feel any hesitation in using the app [Priority 1]

Visibility

- Susan will be able to clearly see her events in a given view and have access everything she needs when she needs it [Priority 1]

Persona

Susan Wright is a 30 year old mother of 2 young children. She has to take care of her husband, Melissa age 5, and Jack age 3. She has been exposed to technology and uses her computer from time to time, but she is in no way an expert. She heavily uses her smart phone however to keep in touch with her family and friends. She also uses her default calendar application on her Samsung Galaxy to schedule for the family in order to keep up on the activities and school events her children have. She also has a physical calendar that she hangs up on the fridge mainly for special events like weddings and birthdays. She is very busy dropping off the kids at their various activities. She works as a financial advisor and spends the day working with different clients. Therefore she needs to schedule and keep track of those appointments with her clients.

Scenario

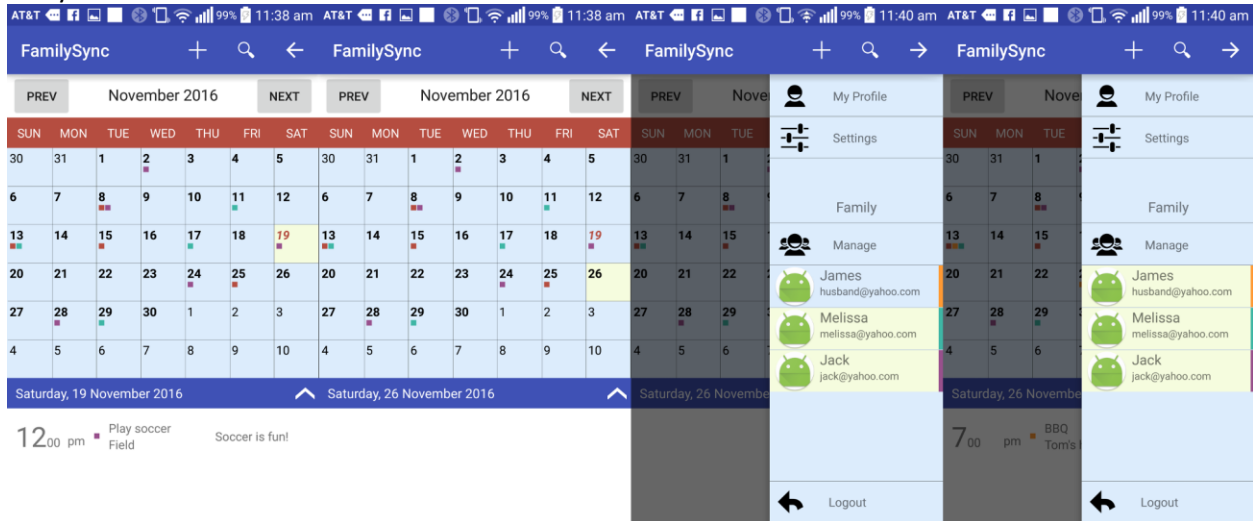
Susan and her husband are at a club meeting when they hear about a park cleaning event. Her husband tells her she should check to see if he has any events on the day of the event. He also told her that if he doesn't have anything that conflicts with the cleaning event then schedule it. Susan opens her app, locates the correct date, slides the side bar, clicks her husband's name James, slides the side bar back,

checks to see if he has an event, he does but it does not conflict so she taps the plus sign, enters the information, saves, and exits the application.

Prototype



Storyboard



1: Susan opens the app and the current date is already selected

2: Susan taps on the 26th which is the day of the park event

3: Susan slides over the side menu to reveal her husband's name (James)

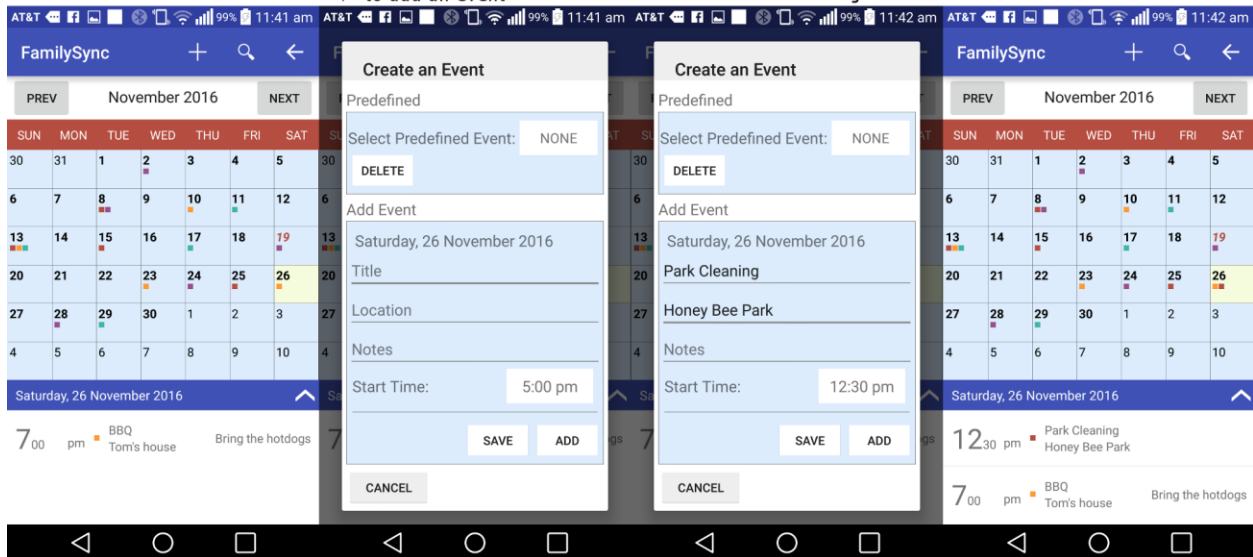
4: Susan taps James to display his events as well

5: Susan moves back the menu to see the events

6: Susan sees that his schedule does not conflict so she taps the "+" to add an event

7: Susan enters the information into the add event dialog

8: Susan saves the event and can now see it listed on the 26th



Detailed Design

All fonts: Droid Sans

Text sizes: Small 14sp, Med 18sp

Selection: #f5fcde

Dark Blue: #3f51b5

Light Blue: #dcecf5

Red: #b54d40

Grey: #d6d7d7

Grey 2: #757575

White: #ffffff

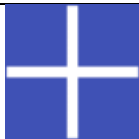





Purple: #98508c


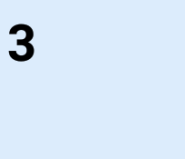
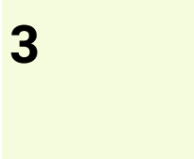
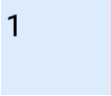
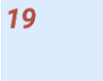






Green: #3eb6a5


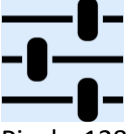






Orange: #ff9933

Brown: #b6a53e

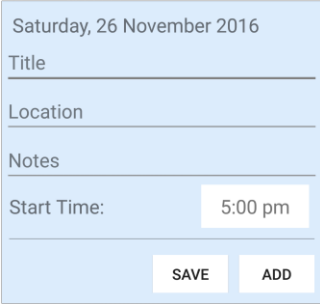



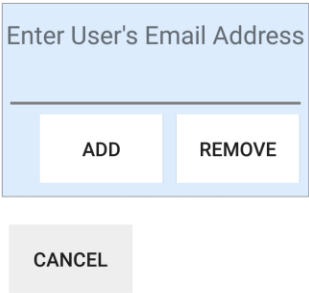
Black: #000000 or #111111

Normal	Tapped	Selected	Other
 <p>Pixels: 84x84 Color: White, Dark Blue</p>	White circle that expands (Classic Default Android Menu Tapping)	X	X
 <p>Pixels: 40x109 Color: White, Dark Blue</p>	White circle that expands (Classic Default Android Menu Tapping)	X	X
 <p>Pixels: 80x76 Color: White, Dark Blue</p>	White circle that expands (Classic Default Android Menu Tapping)	X	
 <p>Pixels: 1440x225 Color: White, Dark Blue Text Size: Med Bold</p>	X	X	X
 <p>Pixels: 252x155 Color: Grey, Black Text Size: Med SAME AS "NEXT" BUTTON</p>	Highlights grey (Default Android Button Tapping)	X	X
<p>November 2016</p> <p>Text Size: Med</p>	X	X	X

Color: Black			
 Pixels: 1440x140 Color: Red	X	X	X
 Pixels: 204x176 Color: Light Blue, Black Text Size: Small Bold	X	 Color: Selection	 Text Size: Small  Text Size: Small Bold Italic Color: Red
 Pixels: 25x25 Color: Green	X	X	Color: Red, Orange, Brown, Purple
 Pixels: 88x56 Color: White, Dark Blue	X	X	
 Pixels: 1440x140 Color: White, Dark Blue Text Size: Med	X	X	X
 Pixels: 1440x256 Color: White, Grey 2, Green Text Size: 35sp, Small	Fills with Grey from the inside out then disappears (Classic Default Android Item Selection)	X	 Color: #e0e0e0 (divider)

 <p> Pixels: 148x102 Color: Black, Light Blue </p>	X	X	 <p> Pixels: 128x130 </p>  <p> Pixels: 97x102 </p>  <p> Pixels: 118x106 </p>
 <p>Manage</p> <p> Pixels: 810, 197 Color: Grey 2, Black, Light Blue Text Size: Small </p>	X	X	X
 <p> Placeholder for profile pictures (outside of scope) Pixels: 177x177 Color: White, Android Green </p>	X	X	X
 <p> James husband@yahoo.com </p> <p> Pixels: 810, 197 Color: Grey 2, White, Black, Android Green, Light Blue, Orange Text Size: Small, 12sp </p>	X	 <p> Melissa melissa@yahoo.com </p> <p> Color: Selection, Green </p>	Color of side bar: Green, Red, Brown, Purple, Orange

<p>Create an Event</p> <p>Predefined</p> <p>Select Predefined Event: NONE</p> <p>DELETE</p> <p>Add Event</p> <p>Saturday, 26 November 2016</p> <p>Title</p> <p>Location</p> <p>Notes</p> <p>Start Time: 5:00 pm</p> <p>SAVE ADD</p> <p>CANCEL</p> <p>Pixels: 1228x2164</p> <p>Title Text Size: Med Bold</p> <p>Color: Grey 2, Black, White</p>	X	X	X
<p>Predefined</p> <p>Select Predefined Event: NONE</p> <p>DELETE</p> <p>Layout Box Pixels: 1188x380</p> <p>Text Size: Med</p> <p>Color: Light Blue, White, Grey 2, Black</p>	X	X	X
<p>NONE</p> <p>Pixels: 361x161</p> <p>Color: White, Grey 2</p>	X	Default Android Spinner Dropdown	Spinner to other options (depending on what the user saves)
<p>DELETE</p> <p>Pixels: 281x140</p> <p>Color: White, Black</p>		X	X

<p>Add Event</p>  <p>Layout Box Pixels: 1188x1120 Text Size: Med Color: Light Blue, White, Grey 2, Black</p>	X	X	X
 <p>Pixels: 401x161 Text Size: Med Color: White, Grey 2</p>	Default Android Spinner Dropdown	X	Opens to Default Android Time Picker Dialog (not modeled)
 <p>Pixels: 281x140 Text Size: Med Color: White, Black SAME AS “ADD” BUTTON</p>	X	X	X
 <p>Pixels: 355x138 Text Size: Med Color: Grey 2, Black</p>	Highlights grey (Default Android Button Tapping)	X	X
<p>Family Management</p> <p>Add/Remove Member</p>  <p>Pixels: 192x1206 Title Text Size: Med Bold Color: Black, Grey 2</p>	X	X	X

<p>Add/Remove Member</p> <p>Enter User's Email Address</p> <hr/> <div> <div>ADD</div> <div>REMOVE</div> </div> <p>Layout Box Pixels: 883x556</p> <p>Text Size: Med</p> <p>Color: Grey 2, Light Blue</p>	X	X	X
<p>ADD</p> <p>Pixels: 353x197</p> <p>Text Size: Med</p> <p>Color: White, Black</p> <p>SAME AS "REMOVE" BUTTON</p>	X	X	X
<p>CANCEL</p> <p>Pixels: 353x197</p> <p>Text Size: Med</p> <p>Color: Grey 2, Black</p>	X	X	X
<p>Select Color</p> <p>Member Name: Autumn</p> <p>Member Email: autumn@yahoo.com</p> <p>Select Member Color: Purple</p> <div> <div>BACK</div> <div>ADD MEMBER</div> </div> <p>Pixels: 1131x1215</p> <p>Text Size: Med</p> <p>Color: Grey, Grey 2, Light Blue, White, Black, Purple</p>	X	X	X
<p>Select Member Color: Purple</p> <p>Pixels: 1131x240</p> <p>Text Size: Med</p> <p>Color: Grey 2, Purple, Light Blue</p>	X	X	X
<p>Purple</p> <p>Pixels: 420x160</p> <p>Spinner Pixels (Hit Region): 340x160</p> <p>Text Size: Med</p> <p>Color: Purple, Grey 2</p>	Default Android Spinner Dropdown	X	Color: Purple, Orange, Brown, Green

BACK Pixels: 323x146 Text Size: Med Color: Grey, Black	Highlights grey (Default Android Button Tapping)	X	X
ADD MEMBER Pixels: 423x146 Text Size: Med Color: Grey, Black	Highlights grey (Default Android Button Tapping)	X	X



Appendix

Change History

These are approximations and just things I have done in the last 2-3 weeks...

11/1/2016 Figured out how to edit old project for new HCI project

11/2/2016-11/14/2016 Fixed various bugs, started adding color to events

11/14/2016 Worked on group management

11/15/2016 Fixed color issues

11/16/2016 Added "out of scope" messages, edited the menu

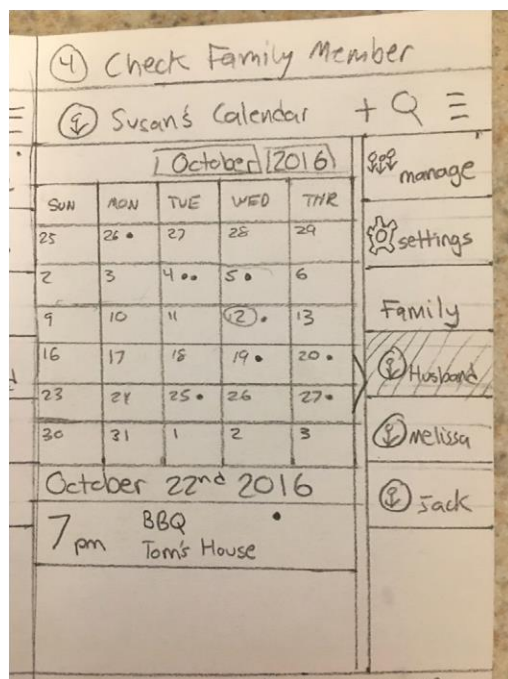
11/17/2016 Reworked the menu look

11/18/2016 Reworked add event screen, reworked event list layout, changed colors

11/19/2016 Updated Spec, reworked sizing for physical phone display

Boneyard

I did not put the Profile Picture and "Susan's Calendar" features (as seen below in the title bar) in. This is due to time constraints. I also did not add the "Add Event" or "+" button down where the event list is shown. This is because it isn't hard for the user to just tap the one on the top bar. Also, when the event list is expanded, the two "+" buttons are right next to get other.



④ Check Family Member

Susan's Calendar

October 2016

SUN	MON	TUE	WED	THU
25	26	27	28	29
2	3	4	5	6
9	10	11	12	13
16	17	18	19	20
23	24	25	26	27
30	31	1	2	3

October 22nd 2016

7pm BBQ Tom's House

settings

Family

Husband

Melissa

Sack

⑤ Susan's Calendar + Q =

Cancel Save

Add Event Oct 22nd

Predefined Name

Start Time

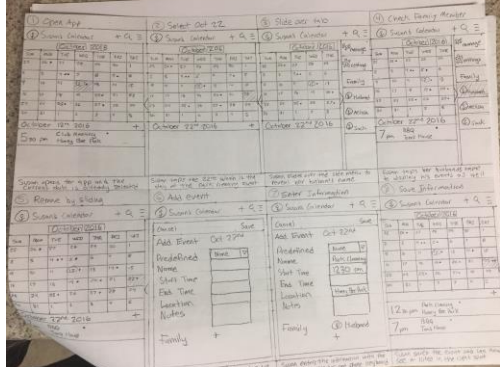
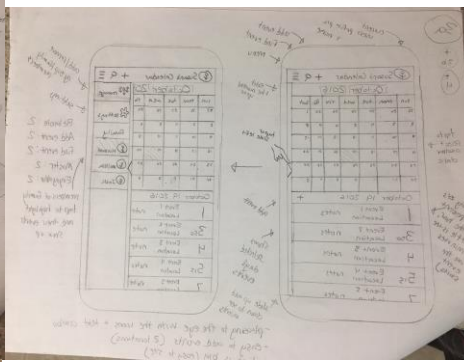
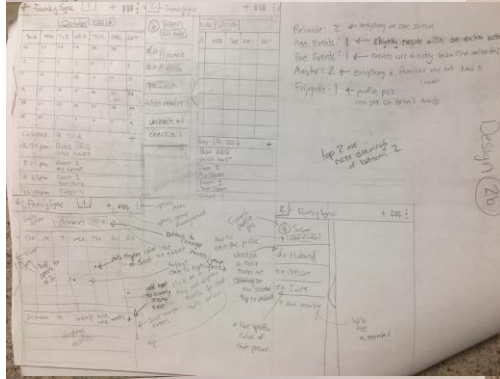
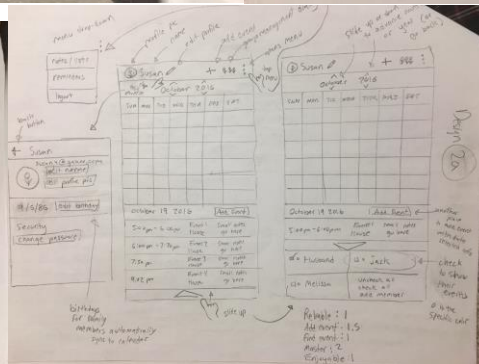
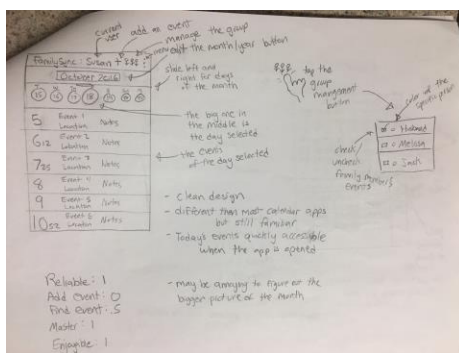
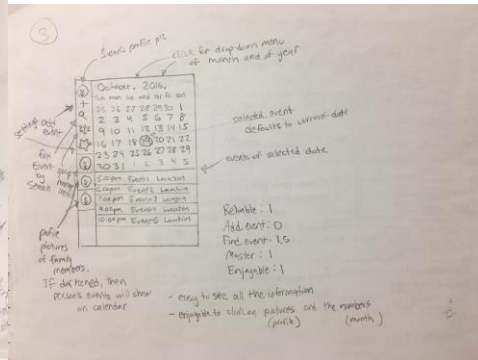
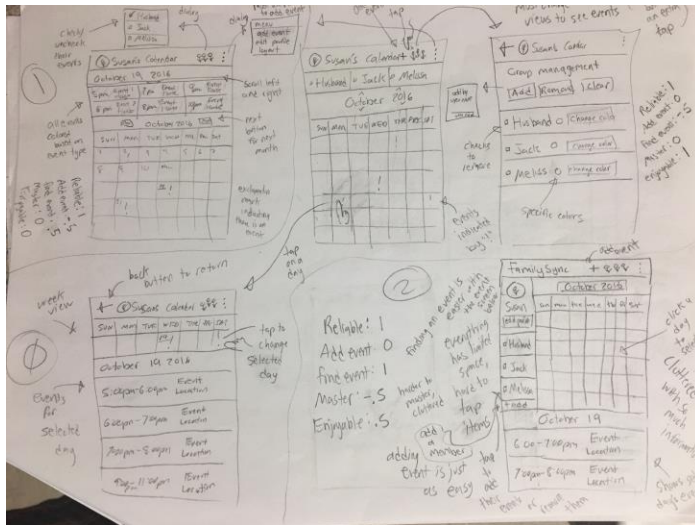
End Time

Location

Notes

Family

-Old Designs



Issues

One of the biggest design decisions made was color coating every event with a color that corresponds to a member in the user's group. This allows for easy recognition of whose event they are viewing. This improves motivation, simplicity, efficiency, and mapping. Another big decision was putting the event list screen and the calendar screen on the same screen. This way there is no changing between screens to see what events are on what day and to see the month calendar. If the user wants to see more events for a particular day, they can use the calendar to click on the day and then click the up arrow to view all of the events. This feature improves efficiency for the user. Another improvement on efficiency came with the decision to have "predefined events." This is the ability to save event details (except the actual day) and allow one to reload that data on a different event for another day. Susan (the persona) has many appointments with clients but they are not regularly scheduled. Therefore, an easy way to put another appointment in without typing all the information is needed. This is done through predefined events.

	Exceptional 100%	Good 90%	Acceptable 70%	Developing 50%	Missing 0%
Fully Implemented 20%	Every control works as the user expects	All the features in the spec are implemented	One feature does not work as the user expects or as the spec describes	One feature described in the spec is missing	More than one feature is missing
No Defects 20%	No bugs can be found	One or more minor bugs exist that the average user would probably not find	One obvious defect	A bug exists that severely impacts a common user scenario	There are many glaring bugs
Application of Standards 20%	There is no room for improvement in the use of color, typography, and layout as well as applicable web, mobile, or desktop standards	The design follows all relevant layout, color, and typography guidelines	One aspect of the design does not adhere to the standards	One obvious or gross violation of a standard seriously degrading the overall quality of the design	No knowledge of applicable standards is demonstrated in the product
Overall Impact 40%	Stunning	The target user is likely to be "pleased" with the design and all their needs will be met	One aspect of the design distracts from the overall visual impact	The quality of the visuals presents usability issues	The design is difficult to look at