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Capstone proposal

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Mommy’s Little helper

Capstone Proposal

# Project Success

This project is an Android application built using the Android Studio IDE with the Java programming language that serves as a schedule keeping application for busy parents with newborn infants. The parent uses the application to keep track of breast lactation, feeding times, sleeping times, diaper changes, and doctor appointments. This application helps the very busy parent keep a steady schedule and helps to teach them more about their newborn child. This application will be compatible with any Android device and integrate the Google Calendar, Facebook, and Picasa Web Data API’s.

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# Target Users

The application is targeted primarily to parents with newborn infants. These are the three type of users and the tasks they are enabled to perform:

* General Users (parents or babysitters) can keep track of the newborns diaper, feeding, and sleeping schedule. General Users can also keep track of doctor’s appointments, the newborns health and newborns moods.
* Parent Users (mom/dad) can upload selected photos to Facebook or their Picasa Web Account.
* Female Parent Users can keep track of breast lactation throughout the day.

# Project Backlog

General User Stories:

User Story

As a general user, I want to be able to select my user type.

Acceptance Criteria

Upon application startup the user will be asked what kind of user they are (General User, Parent, and Babysitter).

User Story

As a general user, I want to be able to track the newborns mood throughout the day.

Acceptance Criteria

The application will have a page where the general user will be able to select different moods (fussy, happy, gassy, tired, etc.)

User Story

As a general user, I want to be able to select a mood and view analytics for the mood.

Acceptance Criteria

User will be able to enter “Analytics Mode” and select a mood, which will display the frequency of the mood displayed for the week.

User Story

As a general user, I want to be able to keep track of the newborns health.

Acceptance Criteria

User will be able to check a checkbox stating whether the newborn is sick that day or not. If checked the user will be asked for the newborns symptoms and temperature.

User Story

As a general user, I want to be able to track temperatures if my child is sick.

Acceptance Criteria

User will be able to enter “Analytics Mode” and select “Health” which will display the temperature’s recorded throughout the infants’ sickness.

User Story

As a general user, I want to be able to keep track of the newborns doctor appointments.

Acceptance Criteria

User will be able to set reminders for scheduled doctor’s appointments ahead of time and will be notified the day before the scheduled appointment day.

User Story

As a general user, I want to be able to access the daily set information with my Google Calendar so that I can access the information on my personal computer.

Acceptance Criteria

User will be able to log onto their Google account, go to their Google Calendar application, and find the daily information from the application set with corresponding days.

Parent User Stories:

User Story

As a parent user, I want to be able to optionally share selected photos on Facebook so that I can show them to my friends.

Acceptance Criteria

User will be notified that the photos were successfully uploaded to Facebook.

User Story

As a parent user, I want the upload process to be convenient and simple.

Acceptance Criteria

User will not have to choose an album name or make an album to put the photos in.

User Story

As a parent user, I want to be able to compile said photos into one concise album so that I can find them easily.

Acceptance Criteria

Application will create a dedicated album and only upload to that dedicated album.

User Story

As a parent user, I want all of my selected photos and daily information to be automatically uploaded to my Google account so that I don’t have to take the time to do it myself.

Acceptance Criteria

User will not have to choose an option to automatically upload information to their Google account. Application will automatically update periodically throughout the day.

User Story

As a parent user, I want certain people to access this information stored on my Google Calendar (male or female partner, babysitter) so that they can know my newborns schedule as well.

Acceptance Criteria

User will be able to select other Google Account holders to share daily information with.

Female Parent User Stories:

User Story

As a female parent user, I want to be able to keep track of the amount I lactate from each breast after using a breast pump.

Acceptance Criteria

Application will have a page where the user will be able to input the amount of breast milk produced from each breast every day.

User Story

As a female parent user, I want to be able to view the amount I lactate each day.

Acceptance Criteria

User will be able to enter “Analytics Mode” and select “Breast Lactation” which will display analytics for the amount of breast lactation each day.

# 2 Week Plan

For the first two weeks of this course, I will be focusing on connecting and uploading to a users’ Google account as well as finding at least three parents with an Android device that can test my application. I believe this to be the most time consuming and difficult part of my project and would like to get this finished first. For my application to be fully functional, I will need to implement a few Google API’s and confirm that I will indeed be able to work with Google’s cloud service.

Before I start the Capstone course, I plan to find at least three parents with an Android device to help test my application.

For the first week of the Capstone course, I plan to implement the Google Calendar API. With implementing the Google Calendar API, I will be able to create new events, and edit or delete existing events from Google Calendar. My goal by the end of the first week is to have user inputted information (such as the feeding schedule, sleeping schedule, and diaper changing schedule) set in the users Google Calendar so that the user will be able to access entered information on their Android device directly on their personal computers.

First Week

User Story

* As a general user, I want to be able to keep track of the newborns feeding schedule
* As a general user, I want to be able to keep track of the newborns sleeping schedule.
* As a general user, I want to be able to keep track of the newborns diaper changing schedule.

For the second week of the Capstone course, I plan to implement the Picasa Web Albums Data API. With the Pica Web Albums Data API, I will be able to create an album as well as upload photos to Picasa Web. My goal is to have an application photo album for the Android application available on their personal Picasa Web account that is provided with each Google account.

Second Week

User Story

As a parent user, I want to be able to select photos and have them uploaded to a dedicated album in my Picasa Web account provided by my Gmail account.