

## CSE3044 Software Engineering – Term Project Homework#2

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2.)

### **Baby Manager:**

This application:

- Logs the baby's breastfeedings, sleep sessions, diaper changes and growth and it shows these features on charts.
- Records baths, moods, temperatures, walks and medications.
- Shares the information about the baby with another partner and the partner also can add information about the baby and this data is synchronized.
- Notifies the partners so they can control events from anywhere via phone.
- Controls and saves the breastfeeding time and the sleep time of the baby.
- Tracks the meal by recording the milk formula.
- Keeps notes for feeds, breastfeeds, sleeps, diaper changes and growth.
- Manages as many babies as the partners need.
- Communicates the nursing, diapers, sleep and breastfeeding easily with your pediatrician.

### **Baby Daybook:**

Features:

- Breastfeeding tracker - start a nursing timer to track feeding duration for each breast.
- Bottle tracking - log breast milk or formula feeding and quickly note the amount.
- Food logging - monitor newborn's reaction to solid foods to find preferences or allergies.
- Breast pump - log pumping sessions and see the daily amount and last used side.
- Diaper changes - know how many diapers you change during the day and when was the last poop.
- Sleeping tracker - improve baby's sleeping quality by recording overnight sleeps and day naps.
- Health tracking - keep track of temperature measurements, medicine, symptoms and doctor visits.
- And more - log bath, tummy time, walking outside, playtime and other activities to have a full picture of baby's day.
- Capture precious moments in a photo album and follow the development of your little one.

## **Our Application: (Babify)**

### **Differences:**

- It keeps information about the vaccinations of the baby.
- There are two log-in sections. One is for the partners and the other one is for the babysitter. The information of the baby in parent's account is synchronized with babysitter's account and vice versa so the parents and the babysitter can reach a new information immediately.
- There is an entertainment section where baby can watch videos and learn new things with games.
- There is a comment section where all the parents can share ideas with each other.
- It can add events retroactively into the log.

### **Similarities:**

- Keeps notes about baby's feeds, sleeps, diaper changes and growth.
- Keeps track of baby's breastfeeding, sleep sessions, diaper changes and growth and shows with graphics.
- Logs baths, moods, temperatures, walks and medications.
- Notifies the users for any essential information about baby.
- Parents can add data about baby and these datas are synchronized.
- There is a photo album section to see development of baby.
- Logs pumping sessions and see the daily amount.
- Monitor newborn's reaction to solid foods to find preferences or allergies.
- Logs bath, tummy time, walking outside, playtime and other activities.

## **3.)**

We think the best Software Process Model for our project is Waterfall Model. Reasons why we choose waterfall model:

- Our requirements are clear and fixed that may not change.
- We understand the technology well.
- It is a short project and risks are minimum.
- Since we will be working with a SPM for the first time, we think it would be advantageous if it was an easy, understandable and easy to manage model.
- Since it works well for smaller and low budget projects, we think it's suitable for our team.
- Easy to arrange tasks.