

[Happy Baby Care](#)

[Description](#)

[Intended User](#)

[Features](#)

[User Interface Mocks](#)

[Sign In](#)

[Group Create/Join](#)

[Group Settings](#)

[Select/Add Baby](#)

[Navigation Drawer/AppBar Menu](#)

[Activities](#)

[Diaper Log](#)

[Feeding Log](#)

[Sleep Log](#)

[Health Log](#)

[Story Time](#)

[Rhymes Time](#)

[Sounds](#)

[Widget](#)

[Key Considerations](#)

[How will your app handle data persistence?](#)

[Describe any corner cases in the UX.](#)

[Describe any libraries you'll be using and share your reasoning for including them.](#)

[Describe how you will implement Google Play Services.](#)

[Next Steps: Required Tasks](#)

[Task 1: Project Setup](#)

[Task 2: Implement UI for Each Activity and Fragment](#)

[Task 3: Implement Google Play Services](#)

[Task 4: Database Setup](#)

[Task 5: Activity, Navigation, Settings](#)

[Task 6: Fragments – Initial Setup](#)

[Task 7: Fragments – Daily Use](#)

[Task 8: Widget, Share](#)

[Task 9: Miscellaneous](#)

[Task 10: Testing, Deployment](#)

GitHub Username: suriyakumark

Happy Baby Care

Description

Happy Baby Care is an ultimate App which will help you from the beginning of your baby's birth through the various stages of your precious baby's growth. We know how busy you are, and how difficult it is to remember different things amidst all other work you have.

Happy Baby Care is going to be at your palm and help you become a Pro Mom or Dad or Babysitter. It will help you remember - baby feedings, diaper changes, health information, growth, sleep times, pumping info. It doesn't stop there, it can play sounds/music to soothe your baby, entertain your baby, get you stories to read for the baby, get you rhymes to sing for the baby.

Intended User

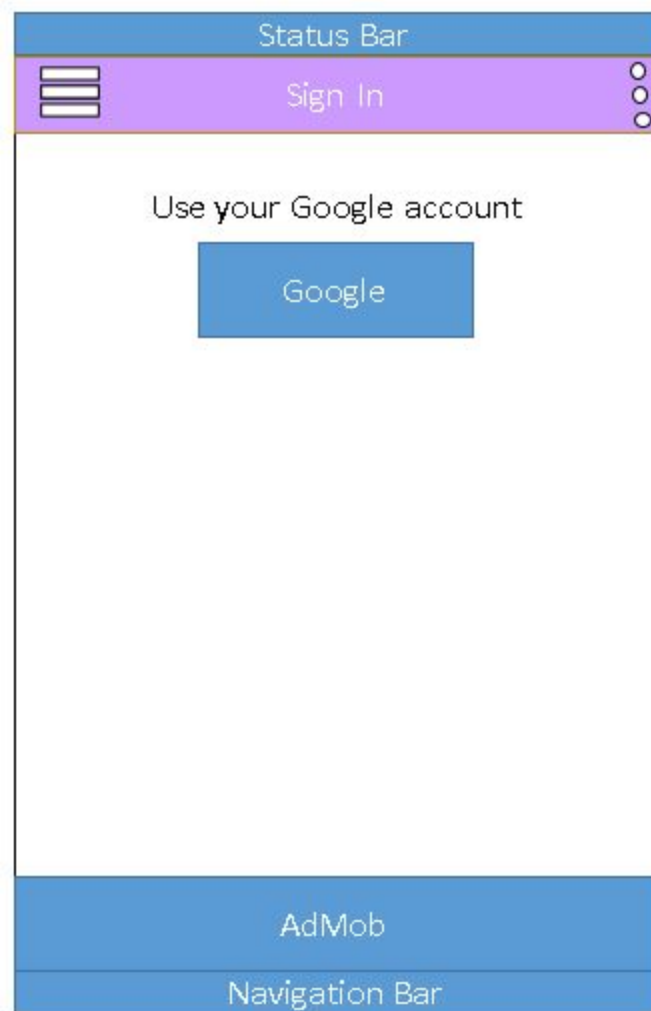
Pregnant Woman & her husband, New Mom and Dad, Nanny, Baby sitter, Day Care staff.

Features

- Feeding log
- Diaper log
- Sleep log
- Health log
- Sounds
- Stories
- Rhymes

User Interface Mocks

Sign In




Sign In screen will be displayed to authenticate new user login. Google account will be used for authentication. Email Id will be stored in server. Data will be stored in server for backup and sync with group users.

Group Create/Join

The image shows a mobile application interface for creating or joining a group. At the top is a blue 'Status Bar'. Below it is a purple header bar with a hamburger menu icon on the left, the text 'Choose Group' in the center, and three small white circles on the right. The main content area is white and contains a text input field labeled 'Group Name'. Below the input field are two blue buttons: 'Create' and 'Join'. Further down and to the right is a yellow button labeled 'Skip'. At the bottom of the screen are two blue bars: the top one is labeled 'AdMob' and the bottom one is labeled 'Navigation Bar'.

Users can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server. Whoever created the Group will be set as Admin for the group.

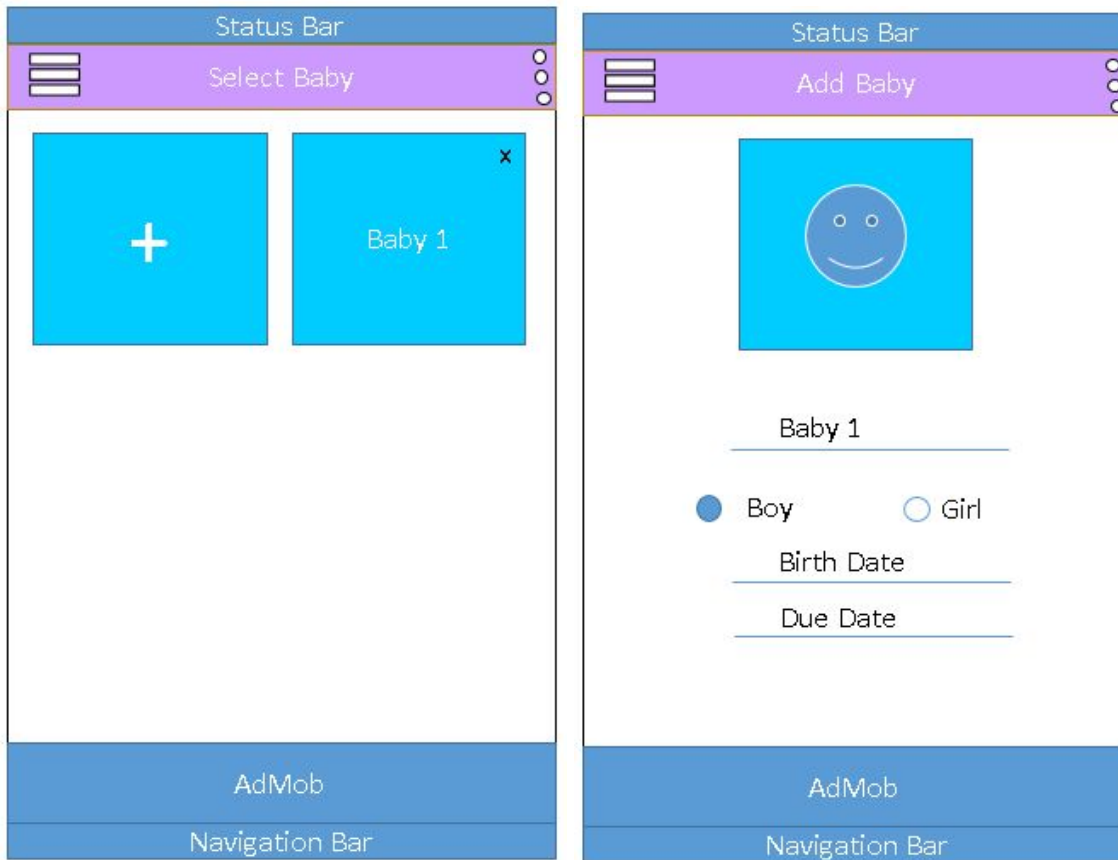
Group Settings



The image shows a mobile application interface for "Group Settings". At the top is a blue "Status Bar". Below it is a purple header bar containing a hamburger menu icon on the left, the text "Add Members" in the center, and three vertical dots on the right. The main content area is white and contains an "Email" label followed by a text input field. Below the input field is a blue "Add" button. Further down is a list of five items, each consisting of a checkbox and the email address "user1@test.com". At the bottom right of the list area is a yellow "Remove" button. The interface concludes with a blue "AdMob" bar and a blue "Navigation Bar" at the very bottom.

Group Admin can add and remove members.

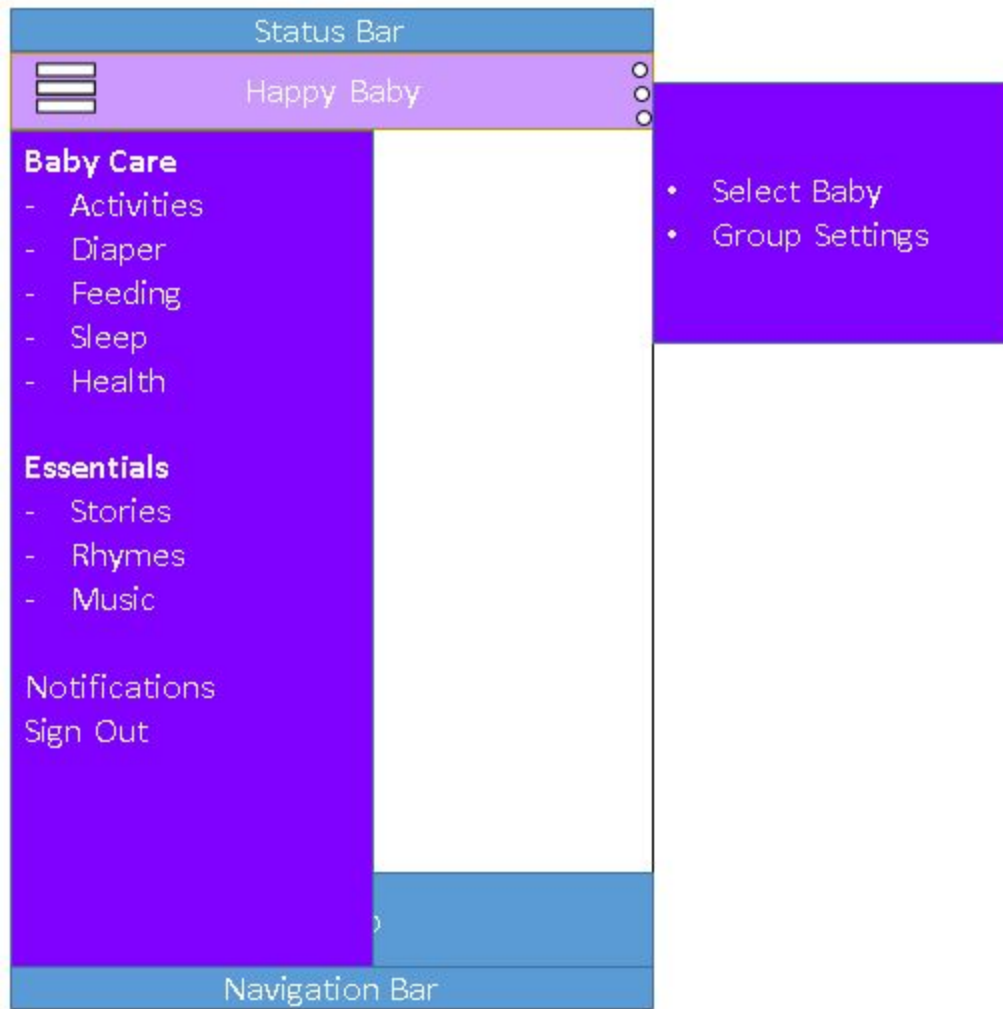
Select/Add Baby



Users can add or remove their baby profile here. A basic profile will be created for each baby added. The profile will consist of the following;

- Photo
- Name
- Gender
- Birth Date
- Due Date

Navigation Drawer/AppBar Menu



User can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server.

Activities

Status Bar		
Baby 1		
All	Diaper	Feed
Diaper	Wet	09:15 AM
Diaper	Dry	09:25 AM
Feed	120ml	09:35 AM
Sleep	20mins	09:45 AM
Health	12 lbs	09:55 AM
Diaper	Wet	10:05 AM
AdMob		
Navigation Bar		

User can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server.

Diaper Log

The image shows a mobile application interface for a "Diaper Log". The interface is structured as follows:

- Status Bar:** A blue bar at the very top.
- Header Bar:** A purple bar containing a menu icon (three horizontal lines) on the left, the text "Baby 1" in the center, and a settings icon (three dots) on the right.
- Form Area:** A white rectangular area containing a 2x2 grid of large blue buttons.
 - Top-left button: "DATE"
 - Top-right button: "HH:MM PM"
 - Bottom-left button: "Wet"
 - Bottom-right button: "Dirty"
- AdMob:** A blue bar at the bottom of the form area.
- Navigation Bar:** A blue bar at the very bottom of the screen.

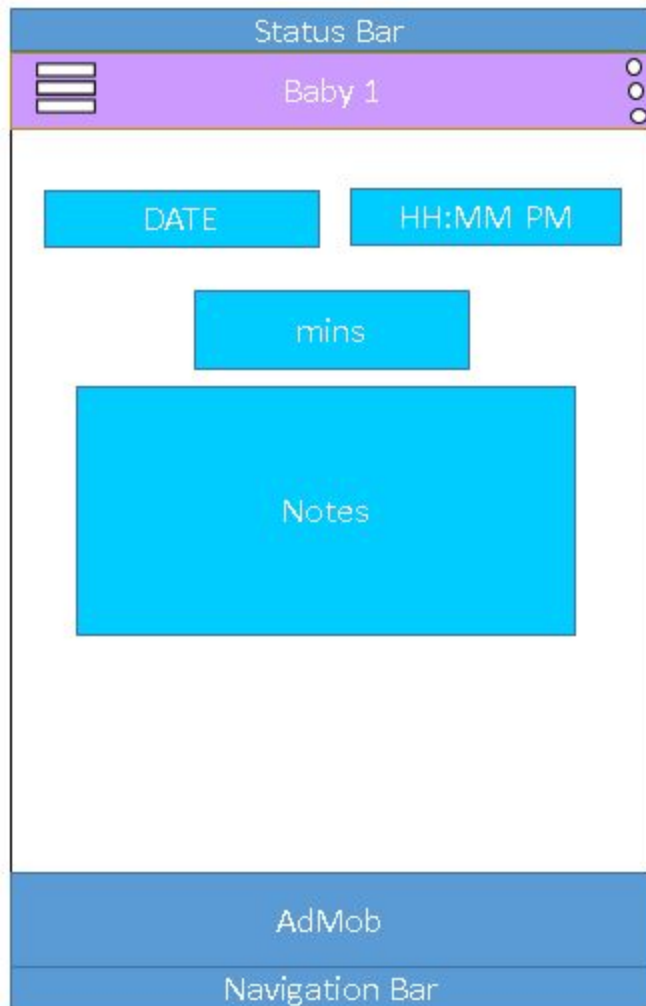
User can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server.

Feeding Log

The diagram illustrates the layout of a 'Feeding Log' application. It features a top 'Status Bar' in blue. Below it is a purple header bar containing a hamburger menu icon on the left, the text 'Baby 1' in the center, and three circular status icons on the right. The main content area is white and contains four light blue boxes arranged in a 2x2 grid. The top-left box is labeled 'DATE' and 'HH:MM PM'. The top-right box is labeled 'Nursing' and contains two orange boxes labeled 'L' and 'R'. The bottom-left box is labeled 'Pumped' and contains an orange box labeled 'ml'. The bottom-right box is labeled 'Formula' and contains an orange box labeled 'ml'. The bottom-most box is labeled 'Supplement' and contains two orange boxes labeled 'Food' and 'Qty'. At the very bottom is a blue 'AdMob' bar, and below that is a blue 'Navigation Bar'.

User can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server.

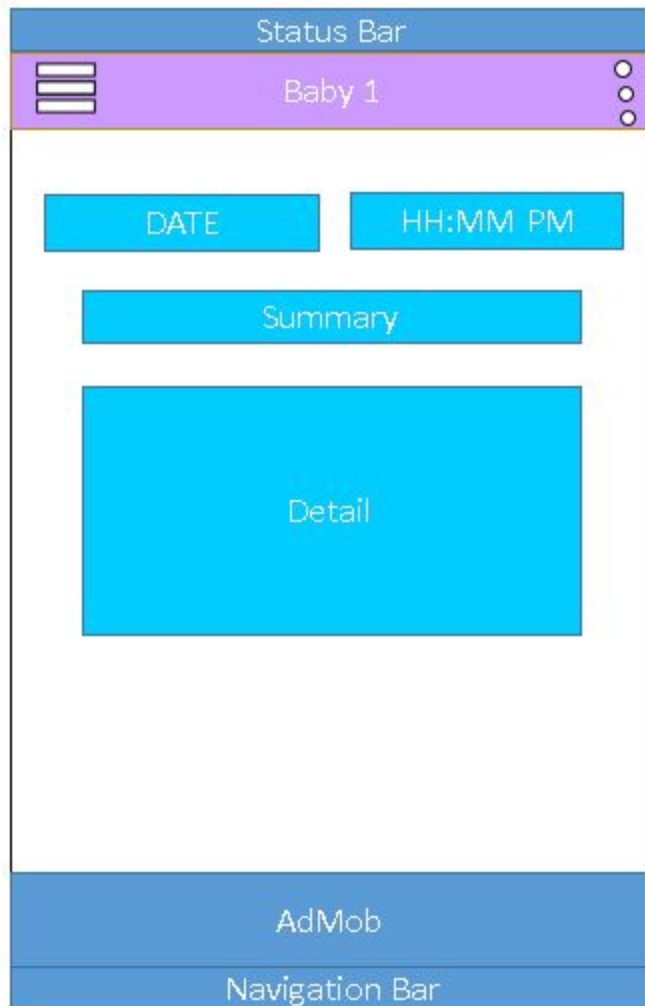
Sleep Log



The diagram illustrates the layout of a 'Sleep Log' form. At the top is a blue 'Status Bar'. Below it is a purple header bar containing a hamburger menu icon on the left, the text 'Baby 1' in the center, and three circular icons on the right. The main content area is white and contains several blue input fields: a 'DATE' field and an 'HH:MM PM' field side-by-side, followed by a 'mins' field below them, and a larger 'Notes' field below that. At the bottom of the form is a blue 'AdMob' bar, and at the very bottom is a blue 'Navigation Bar'.

User can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server.

Health Log



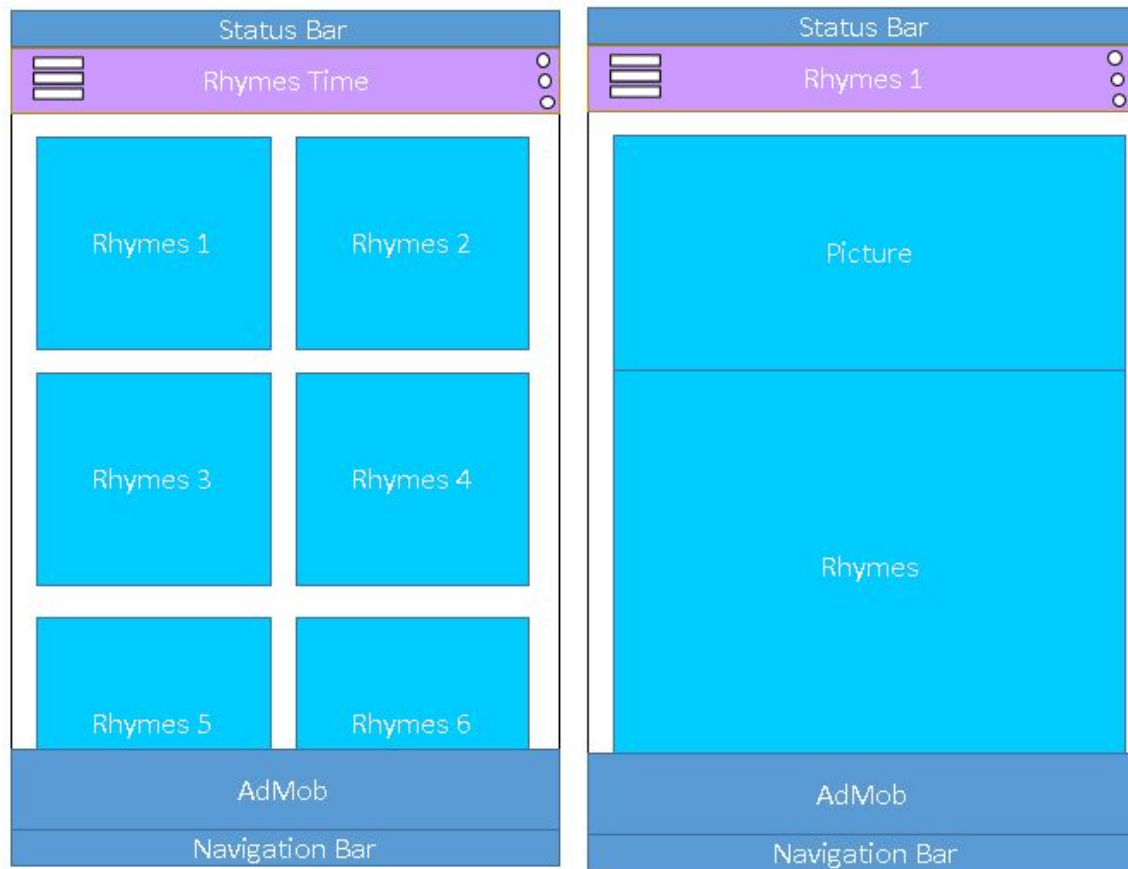
User can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server.

Story Time



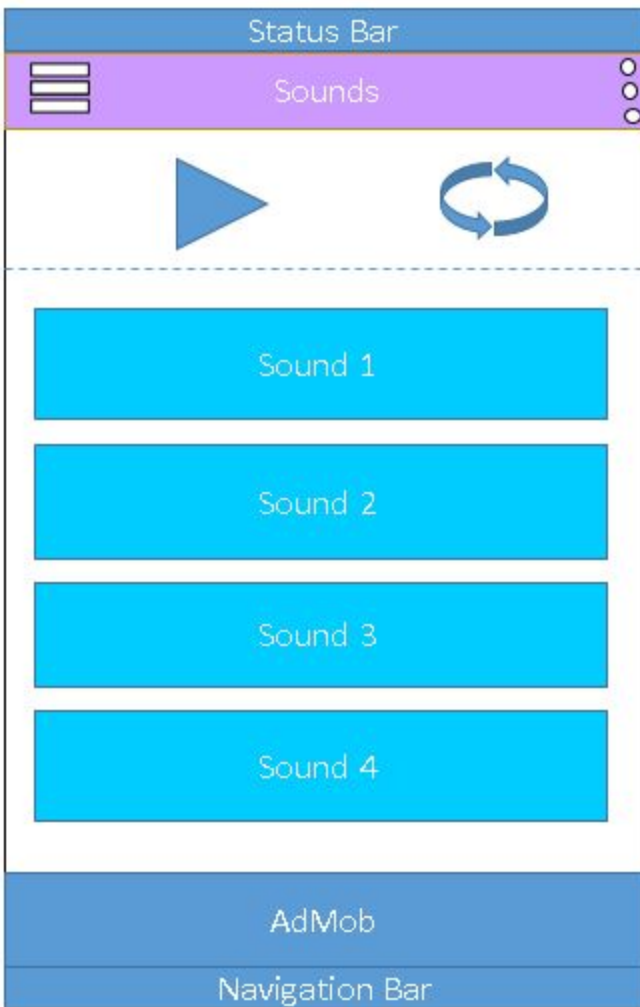
User can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server.

Rhymes Time



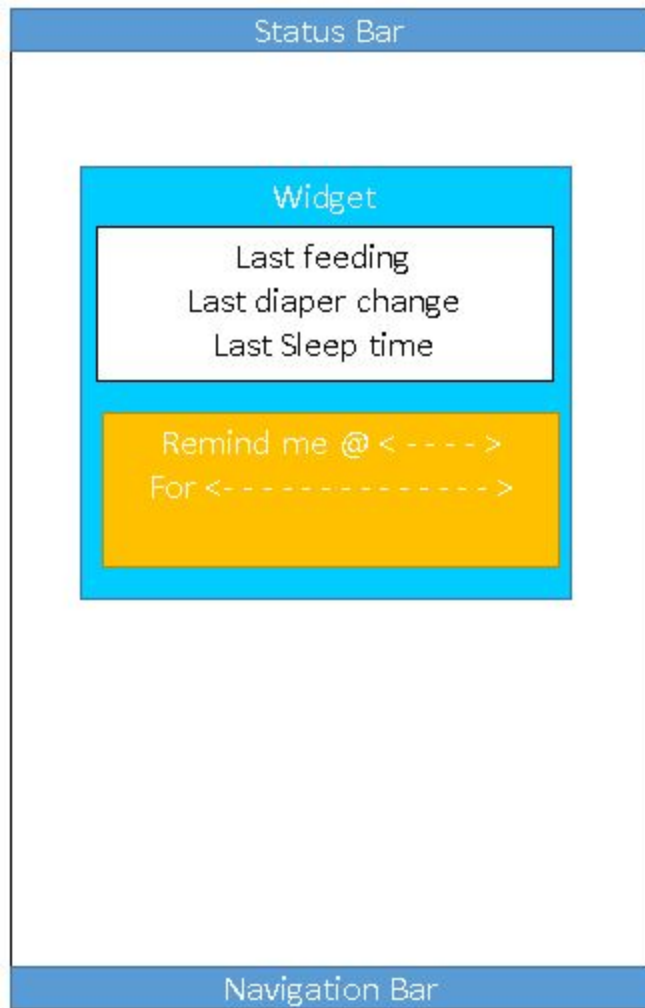
User can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server.

Sounds



User can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server.

Widget



User can create new group, join an existing group or skip this step and reconsider later. Group name should be unique and will be validated in server.

Key Considerations

How will your app handle data persistence?

Content Provider will be used to handle data storage and retrieval from local database. Server will be used to sync local data and hold a backup. SyncAdapter will be used to handle sync between android device and server. Server will help to sync data with all group users.

Describe any corner cases in the UX.

- User is not connected to Internet
 - User data will be stored locally until Internet is available and then synced. The SyncAdapter should take care of this part.

Describe any libraries you'll be using and share your reasoning for including them.

Picasso – For image loading. I have used Picasso while doing the Movies App project and it seemed to really work well.

Describe how you will implement Google Play Services.

AdMob will be used for displaying Banner Ads in the bottom of the App.
Google Account will be used for User Authentication.
Google Analytics will be used for tracking App usage.

Next Steps: Required Tasks

Task 1: Project Setup

- Design database schema to store User Profiles, Baby Profiles, Activities
- Setup Server APIs to receive data and send requested data.
- Create Google Analytics account
- Acquire/Create content for Stories
- Acquire/Create content for Rhymes
- Acquire/Create content for Sounds
- Acquire/Create Icons and Images

Task 2: Implement UI for Each Activity and Fragment

- Build UI for Main Activity
- Build UI for Sign In Fragment
- Build UI for Group Settings Fragment
- Build UI for Baby Profile Fragment
- Build UI for Navigation Drawer Fragment
- Build UI for Activities Fragment
- Build UI for Diaper Fragment
- Build UI for Feeding Fragment
- Build UI for Sleep Fragment
- Build UI for Health Fragment
- Build UI for Stories Fragment
- Build UI for Rhymes Fragment
- Build UI for Sounds Fragment
- Build UI for Widget

Task 3: Implement Google Play Services

- Google Account Authentication
- Setup and Implement Google AdMob

- Setup and Implement Google Analytics

Task 4: Database Setup

- Create tables in Server side
- Create API to Create User
- Create API to Sync Baby Profiles
- Create APIs to Sync Activities
- Code for SQLite tables
- Create Contract
- Create Content Provider

Task 5: Activity, Navigation, Settings

- Create Main Activity
- Create Navigation Drawer
- Create Settings options and notification options

Task 6: Fragments – Initial Setup

- Create Sign In Fragment
- Create Group Fragment
- Create Manage Group Fragment
- Create Baby Fragment
- Create Baby Detail Fragment

Task 7: Fragments – Daily Use

- Create Activities Fragment
- Create Diaper Fragment
- Create Feeding Fragment
- Create Sleeping Fragment
- Create Health Fragment
- Create Stories Fragment
- Create Rhymes Fragment

- Create Sounds Fragment

Task 8: Widget, Share

- Create Widget
- Create shareable content from Activities

Task 9: Miscellaneous

- Update content descriptions for Accessibility
- Check to see if RTL is supported
- Check if strings are kept in strings.xml
- Handle errors across the App
- Check if colors are managed from xml

Task 10: Testing, Deployment

- Create test plan
- Test in Real Device
- Deploy the App in Google Play - Beta
- Deploy the App in Google Play