

Midway Milestone

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Our Team



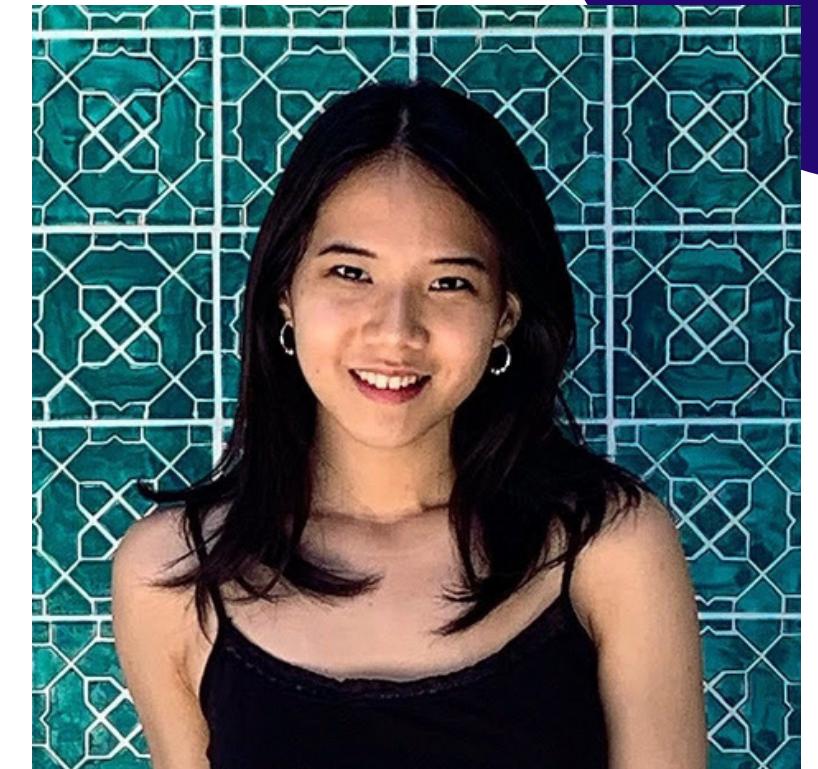
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Pebble

Learn more for your growing family!



PROBLEM

Pregnant people often wish their partners were more connected to the pregnancy process, and likewise, partners wish they had access to information to carry out their own research and better understand how they can be of support.

SOLUTION

Pebble is an app designed for pregnant individuals' partners to easily acquire digestible information, tips, and recommendations customized for them.



Presentation Overview

Topics to be Covered

1. Introduction
2. Heuristic evaluation results
3. Revised design
4. Prototype implementation
5. Prototype demo
6. Summary



Heuristic Evaluation Results & Revised Design

17 Severity 3/4 Violations

15 REVISIONS

34 Severity 1/2 Violations

16 REVISIONS

Violation Category — Tasks

NO PERSONALIZATION

There is no feature for users to personalize tasks by creating new tasks in addition to suggested tasks, and/or personalize suggested tasks

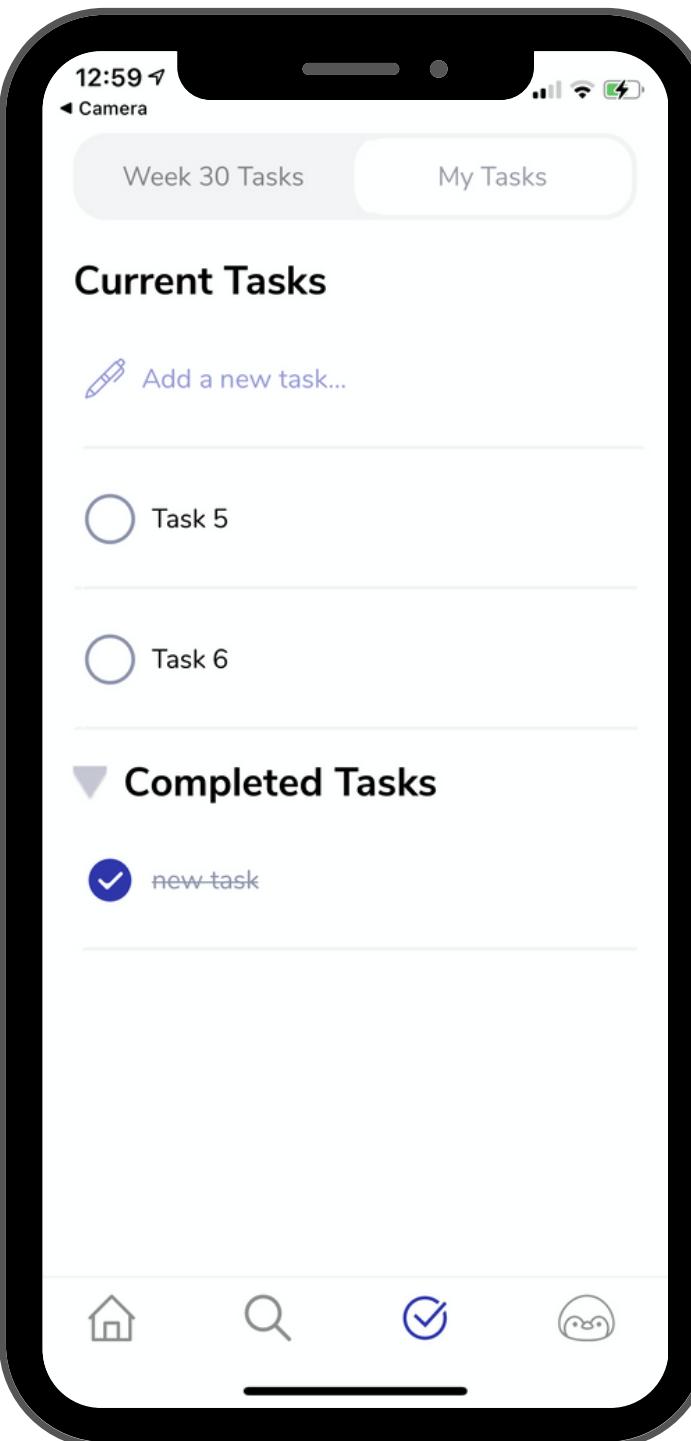
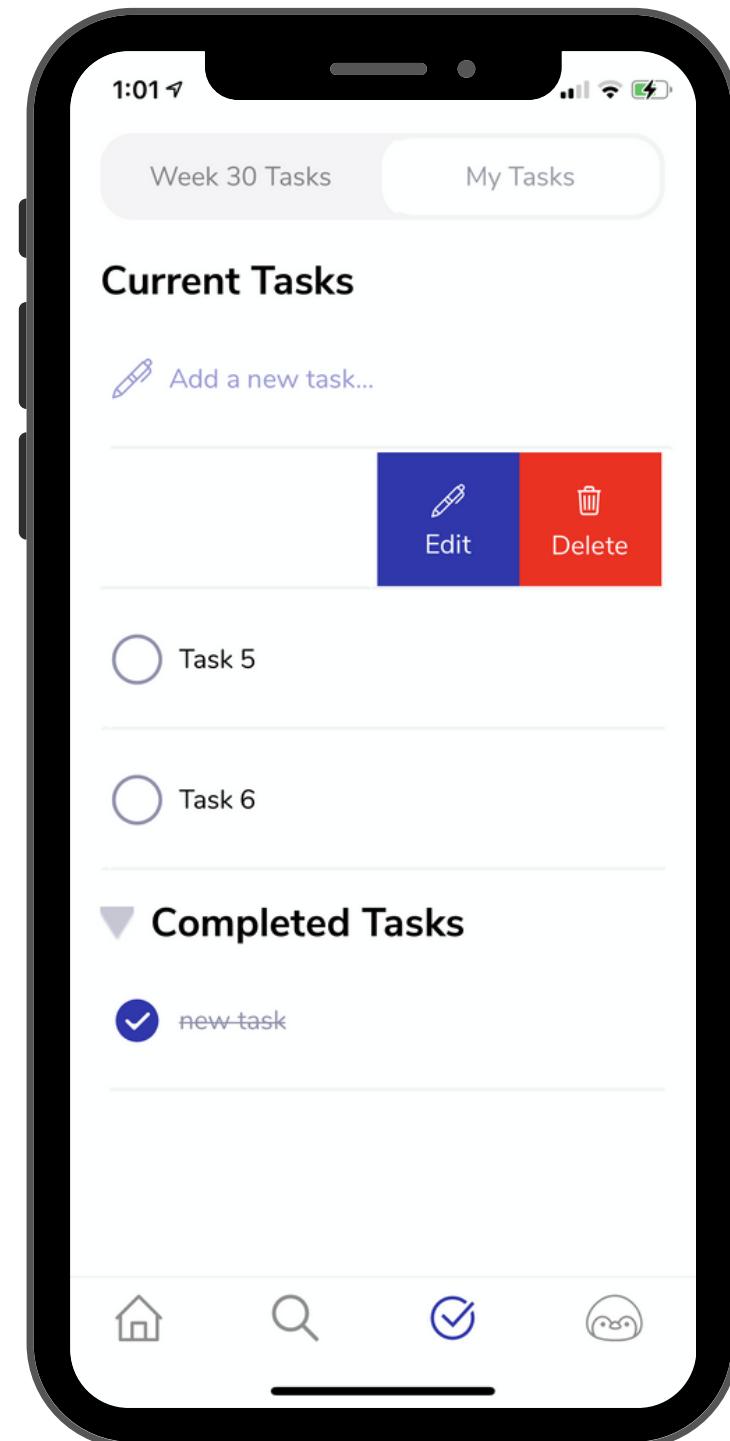
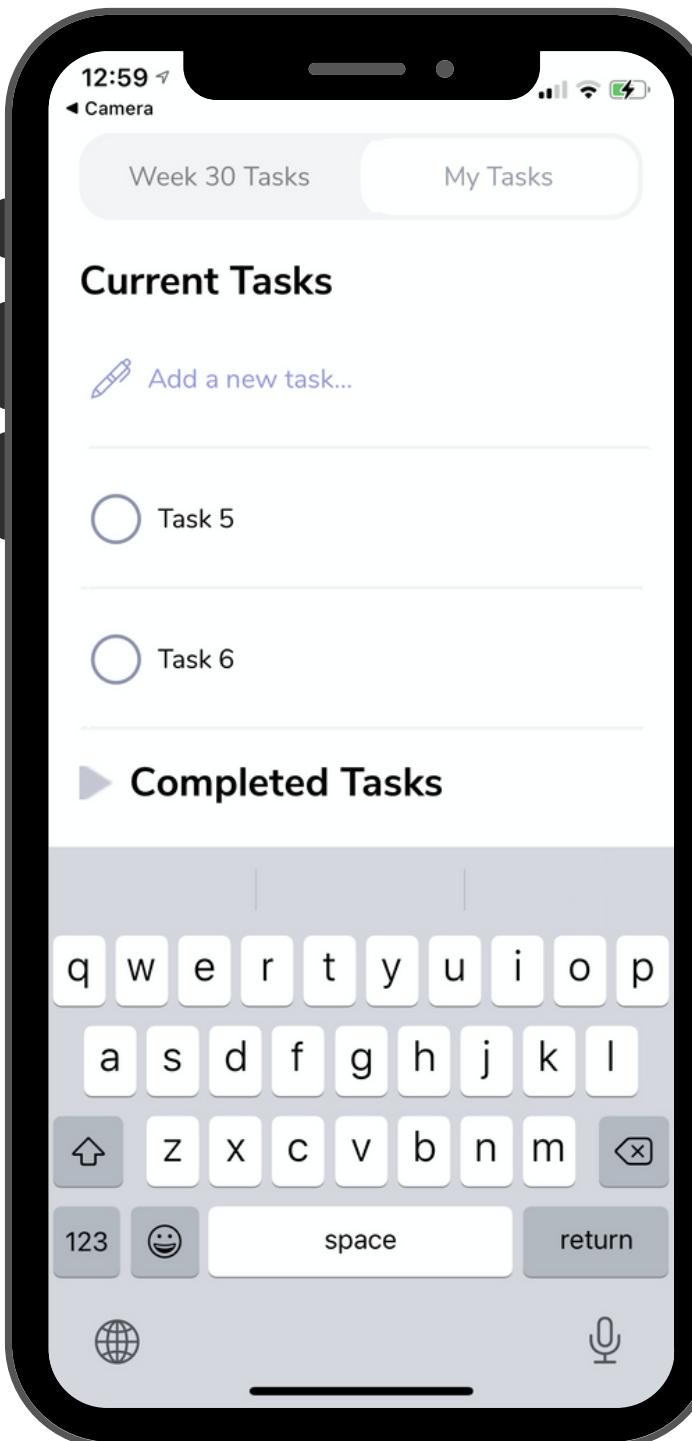
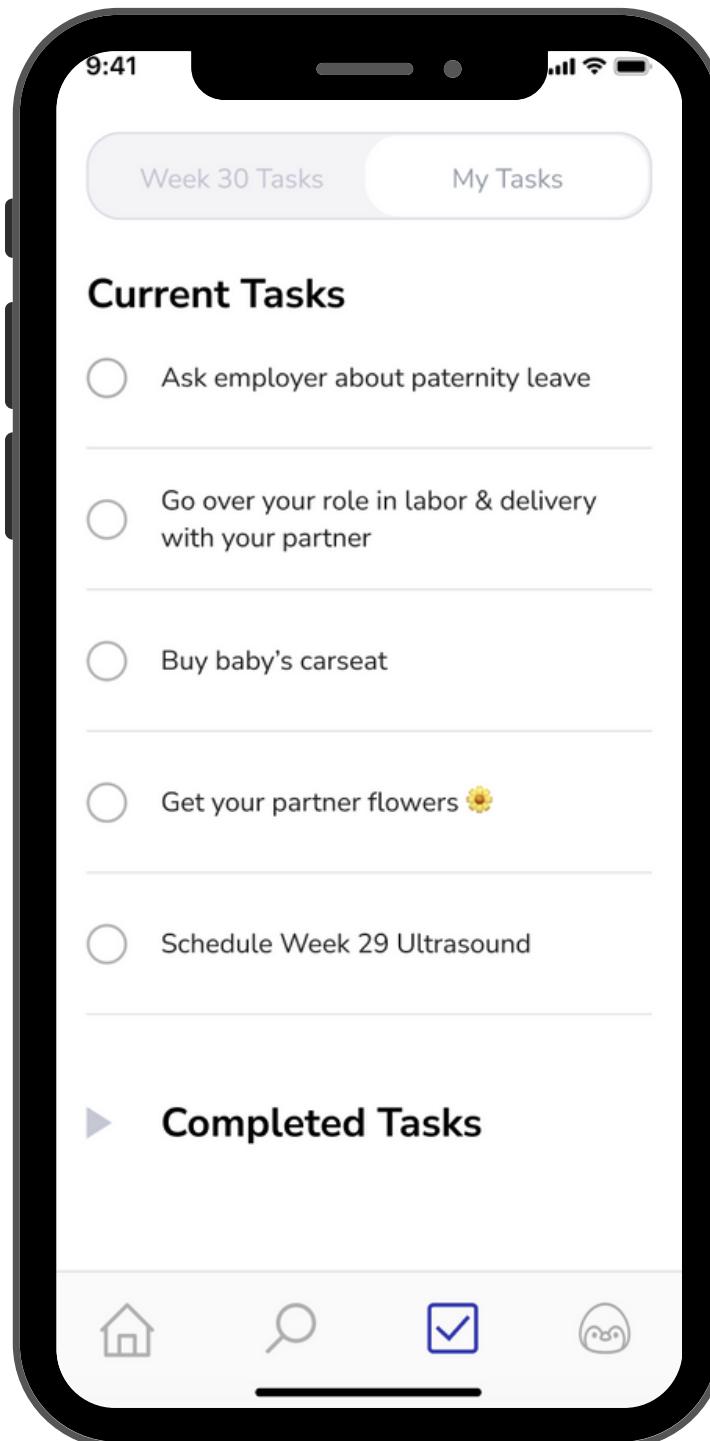
H7. Flexibility & Efficiency of Use
Severity 4

NO DELETE

There is no feature for users to delete tasks from both the added and unadded sections

H3. User Control and Freedom
Severity 3

Revisions — Tasks



Violation Category — Progress & Home

PROGRESS BAR NON-INFORMATIVE

The progress bar is not informative because % left is an abstract measure and has little actionable meaning

H1. Visibility of System Status
Severity 3

HOME PAGE TASKS MISLEADING

Current week's to-do tasks are visible from home and look tappable, but there is no actual way for users to complete a task from the home screen

H1. Visibility of System Status
Severity 3

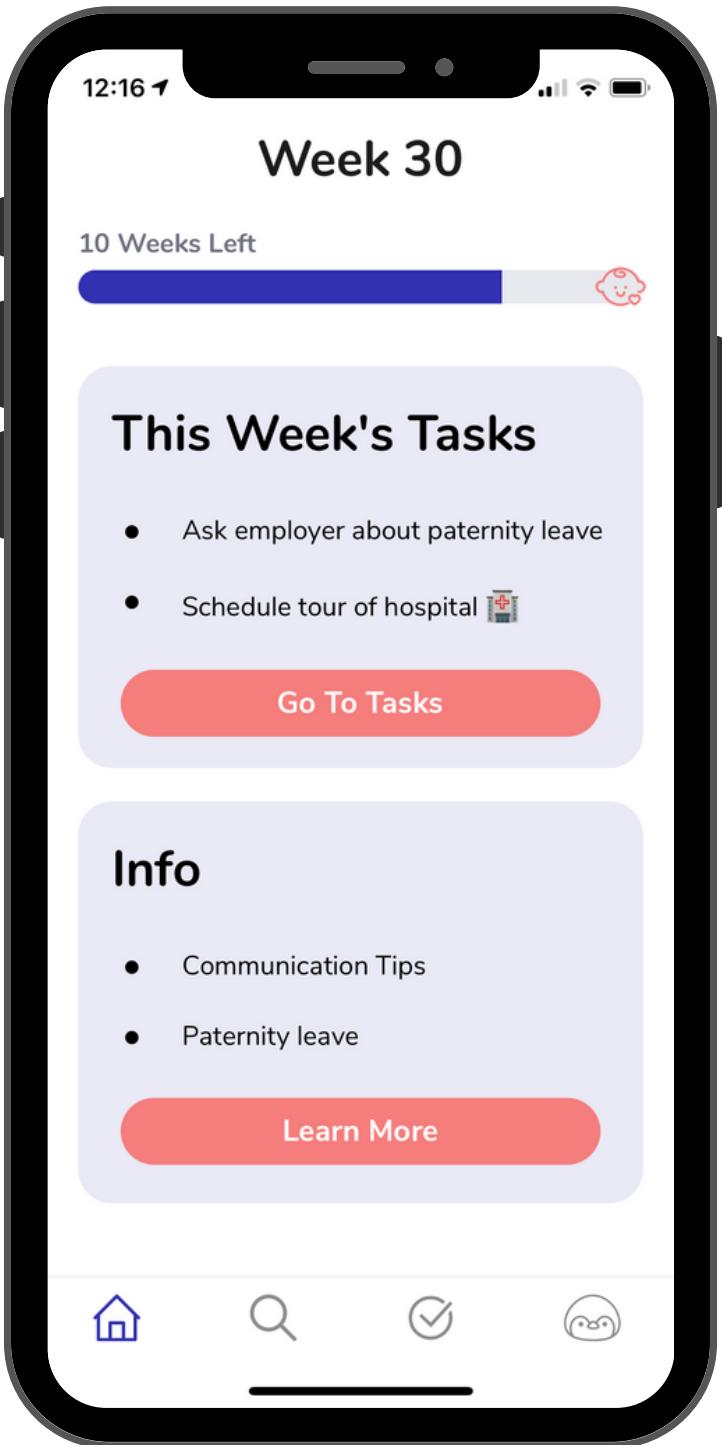
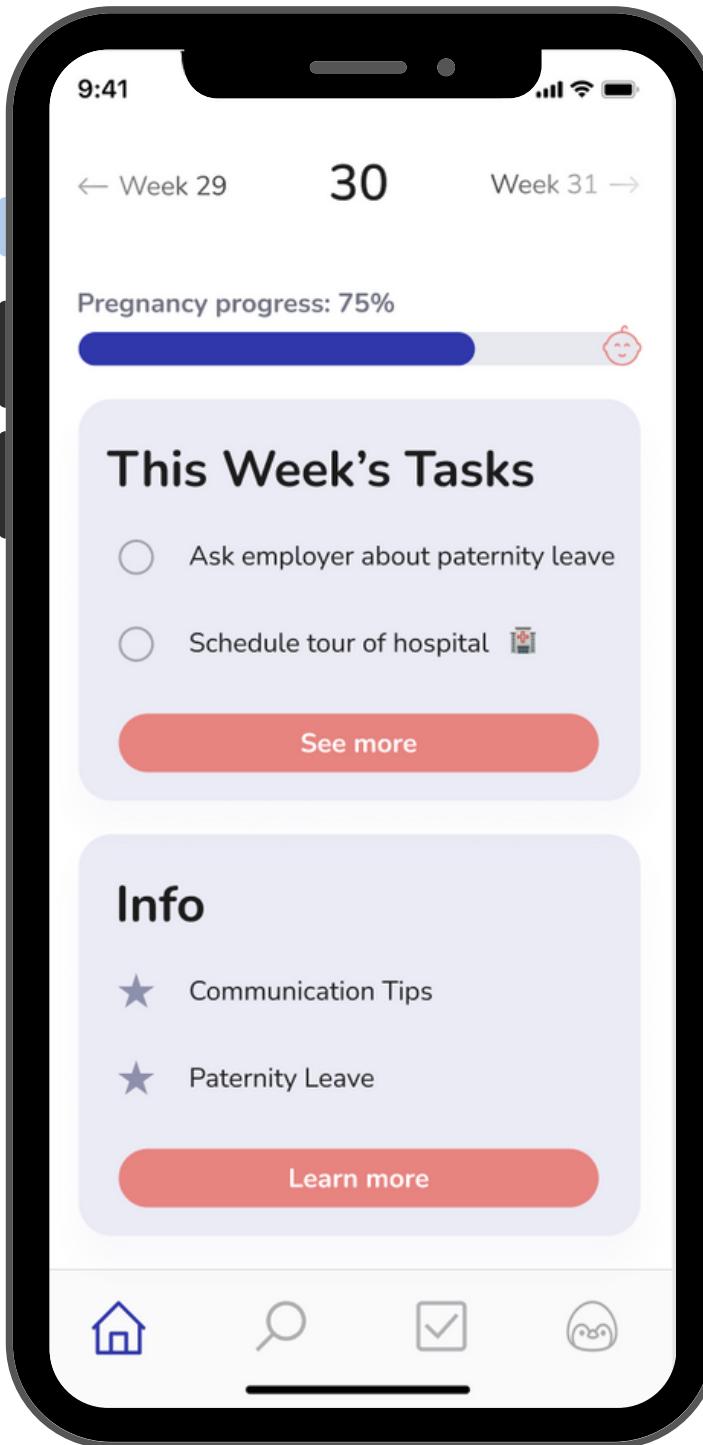
NO IN-APP PROGRESS

There is no user progress status for current week task completion. A circular chart showing the number of tasks they've completed for the week would be nice.

H1. Visibility of System Status
Severity 2

Not implemented, because participants said it would be demotivating in user interviews

Revisions — Progress & Home



Violation Category — Profile, Settings, Emergency

NO ERROR PREVENTION ON SETTINGS PAGE

It appears that the user can accidentally exit the settings page without saving changes

H5. Error Prevention
Severity 3

USER INFO NOT EDITABLE IN SETTINGS

The user's name and previous information are not stored or editable in settings

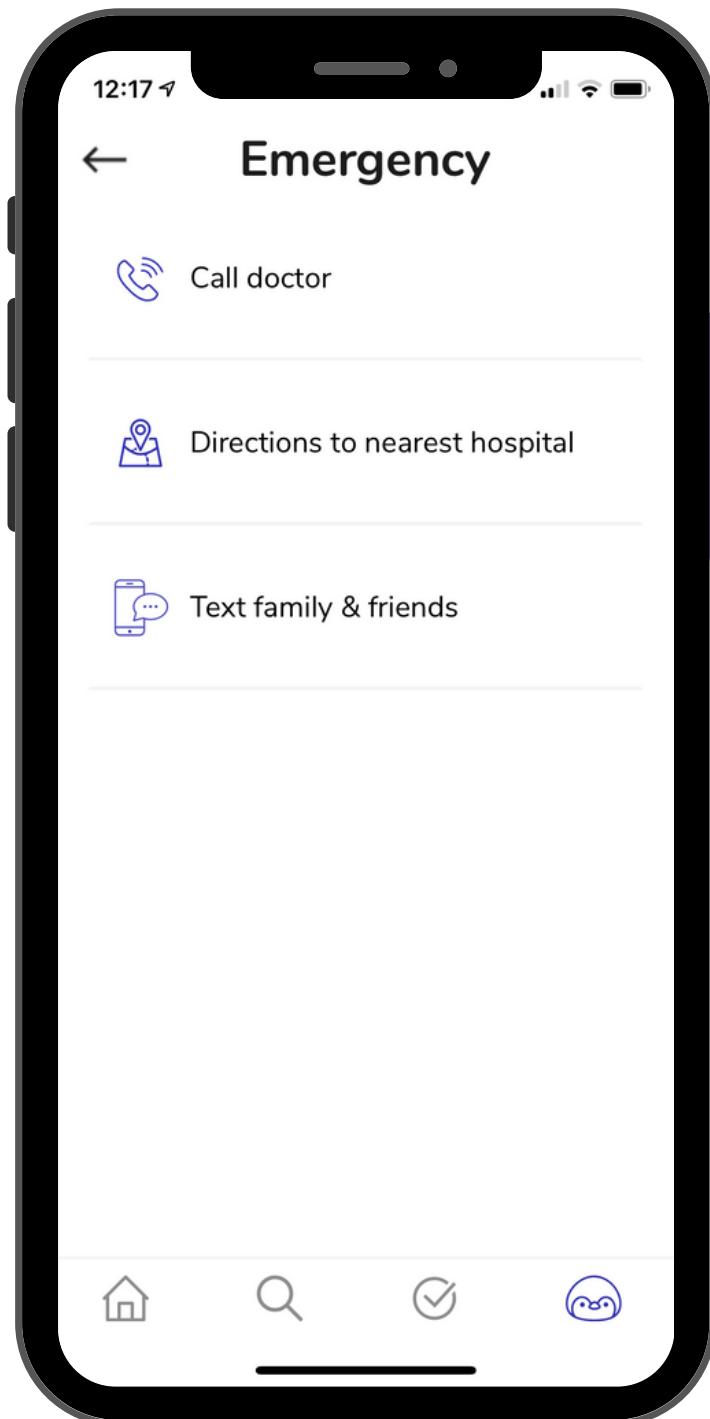
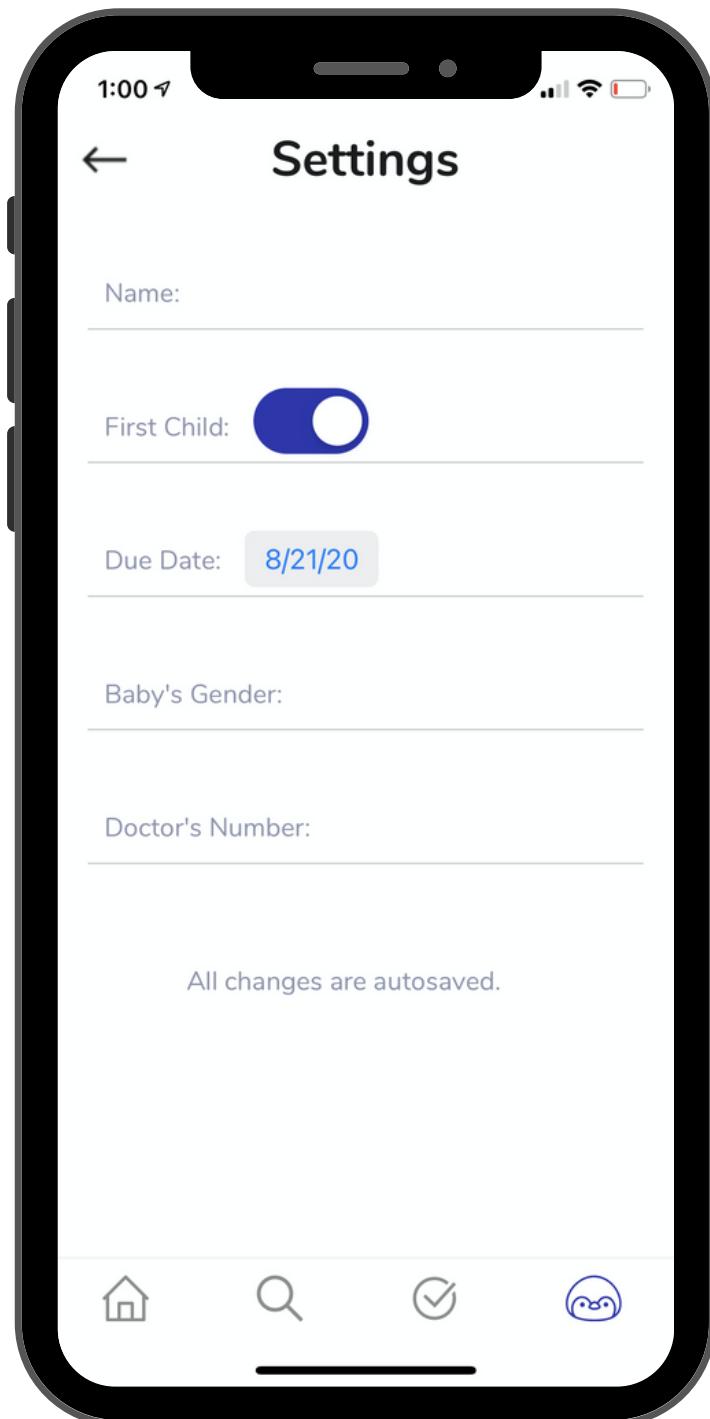
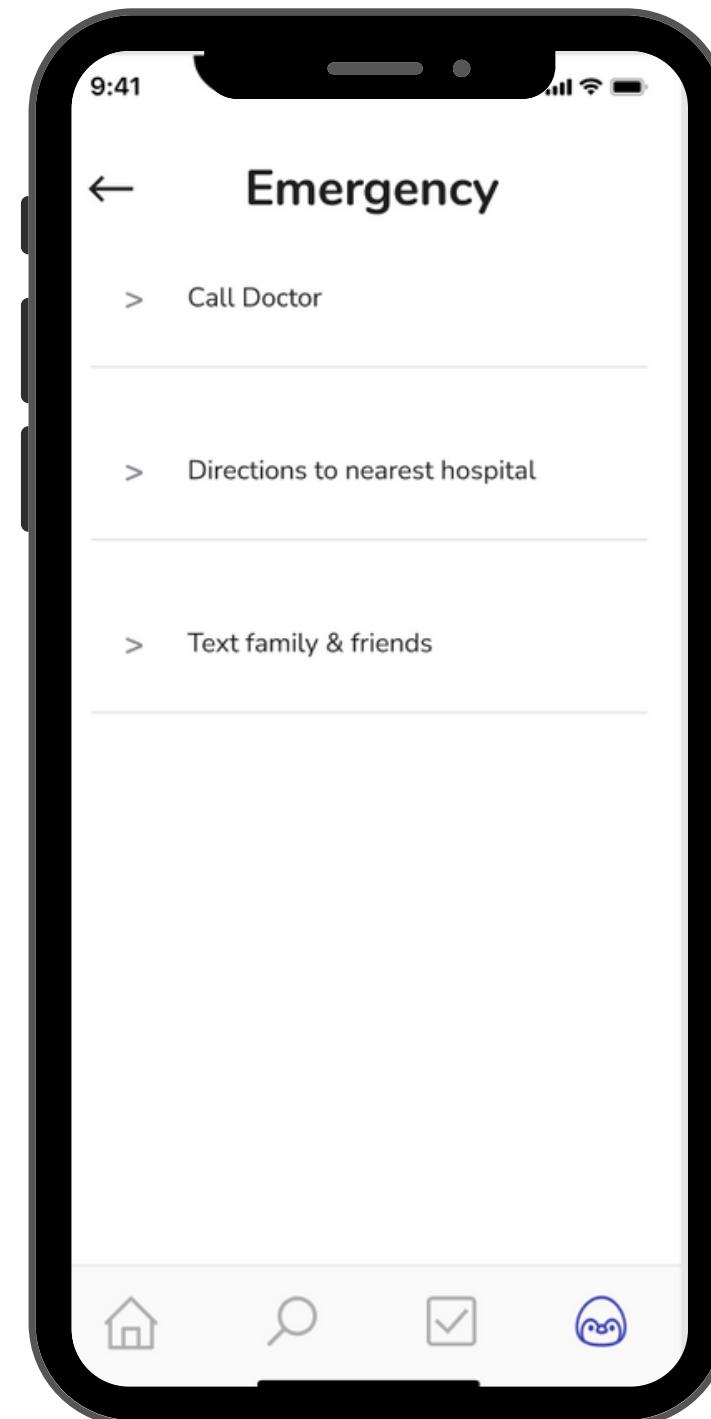
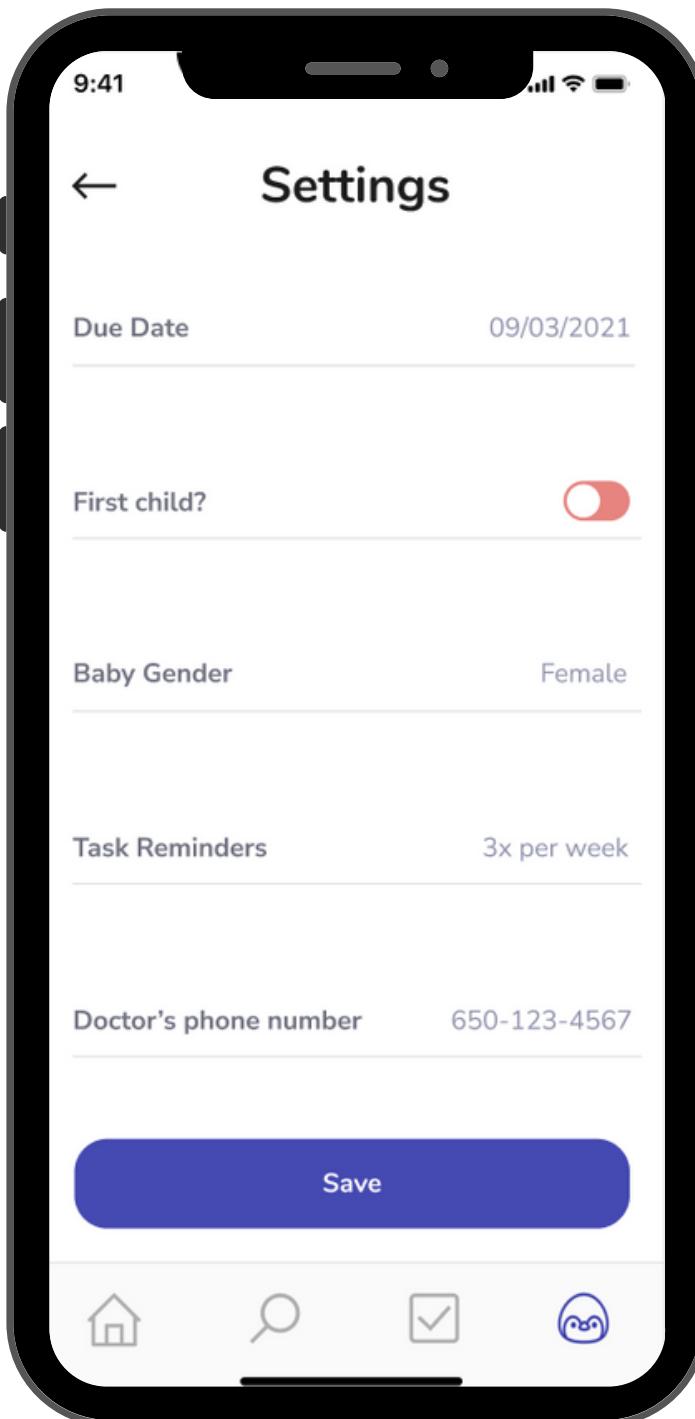
H2. Match Between System & Real World
Severity 2

NO VISUAL REPRESENTATIONS ON EMERGENCY PAGE

In the Emergency page, there is no visual representation of the actions so users do not know what they are pressing on

H7. Flexibility & Efficiency of Use
Severity 3

Revisions — Profile, Settings, Emergency



Violation Category — Onboarding & FAQ

NO ONBOARDING INSTRUCTIONS

Onboarding screens would be helpful to understanding the app

H10. Help & Documentation
Severity 0

TASKS FLOW CONFUSING

It is unclear whether the home screen has tasks from week 30 or the most urgent tasks overall that the user has accumulated

H6. Recognition Not Recall
Severity 3

NO PAGE FOR USERS TO SEEK ADDITIONAL HELP

It would be helpful to have a page that covers pregnancy-related questions and concerns not covered in the app

H10. Help & Documentation
Severity 2

Revisions — Onboarding, FAQ



Do Customized Tasks

Add the tasks you want to complete from the current week (Week X Tasks) to your running list of tasks (My Tasks).

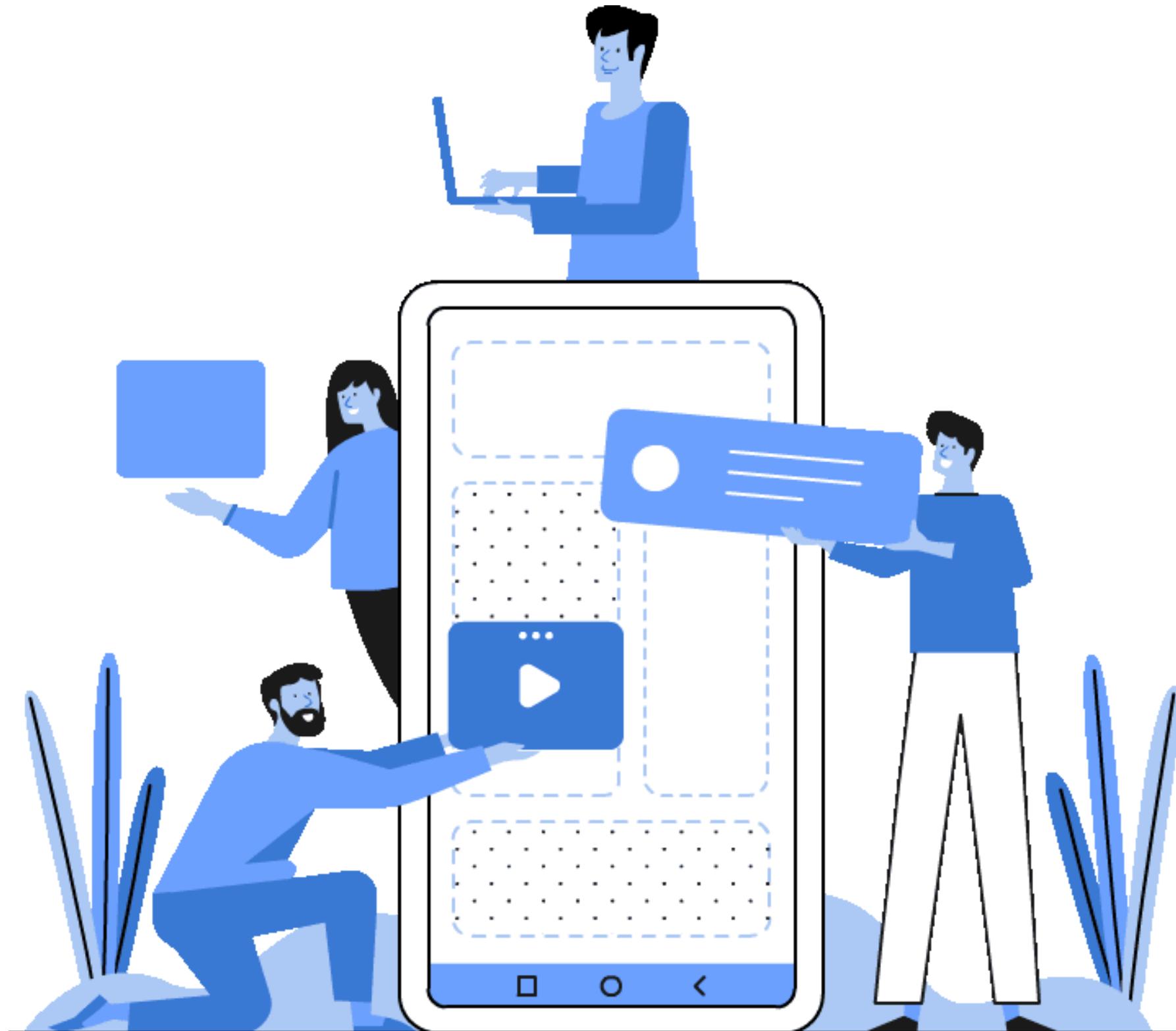
How do I use the tasks feature?
Adding a suggested task from Week X on the tasks tab will add it to your running "My Tasks" list. To access tasks from previous weeks, navigate to previous weeks from the home screen and access tasks from there.

Where can I find additional resources?
Check out these websites for more information about pregnancy and becoming a parent.
[What to Expect for Fathers](#)
[National Parent Helpline](#)
[The Post Partum Stress Center](#)

What does the progress bar mean?
This progress bar represents how far along your partner is in their pregnancy. Remember that your due date is only an estimation!

How does Pebble recommend items?
Pebble leverages intelligent AI algorithms that can analyze articles and tasks you spend the most time on and provides suggestions accordingly.

Prototype Implementation Status



Tools Used

- React Native (application framework)
- Expo (building + running app)
- VSCode, Atom, XCode (development)
- Figma (to design graphics)



Tasks

Task 1 (Simple):

View relevant information for the current week of pregnancy

Task 2 (Moderate):

Search for and find information on specific topics (eg: morning sickness)

Task 3 (Complex):

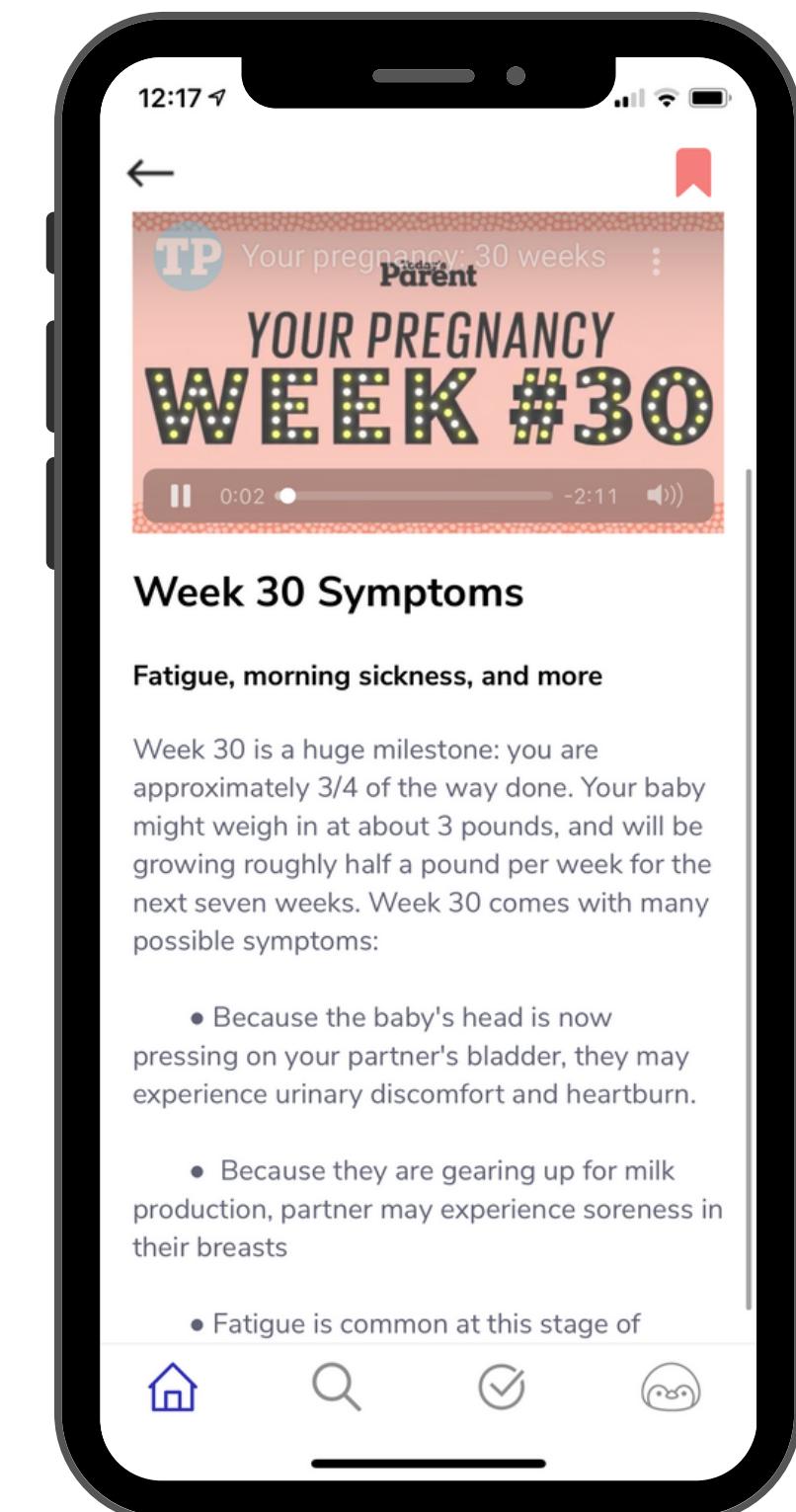
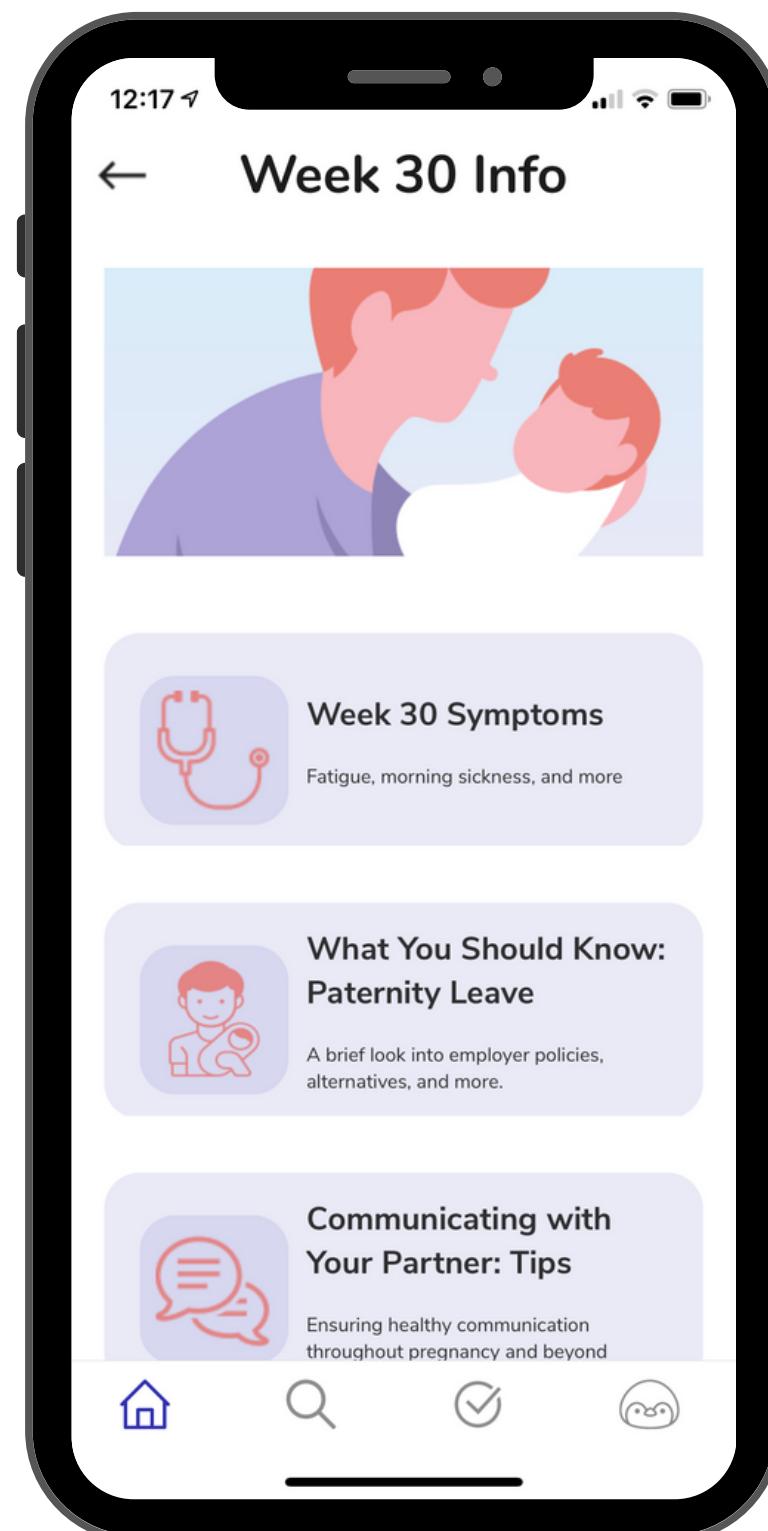
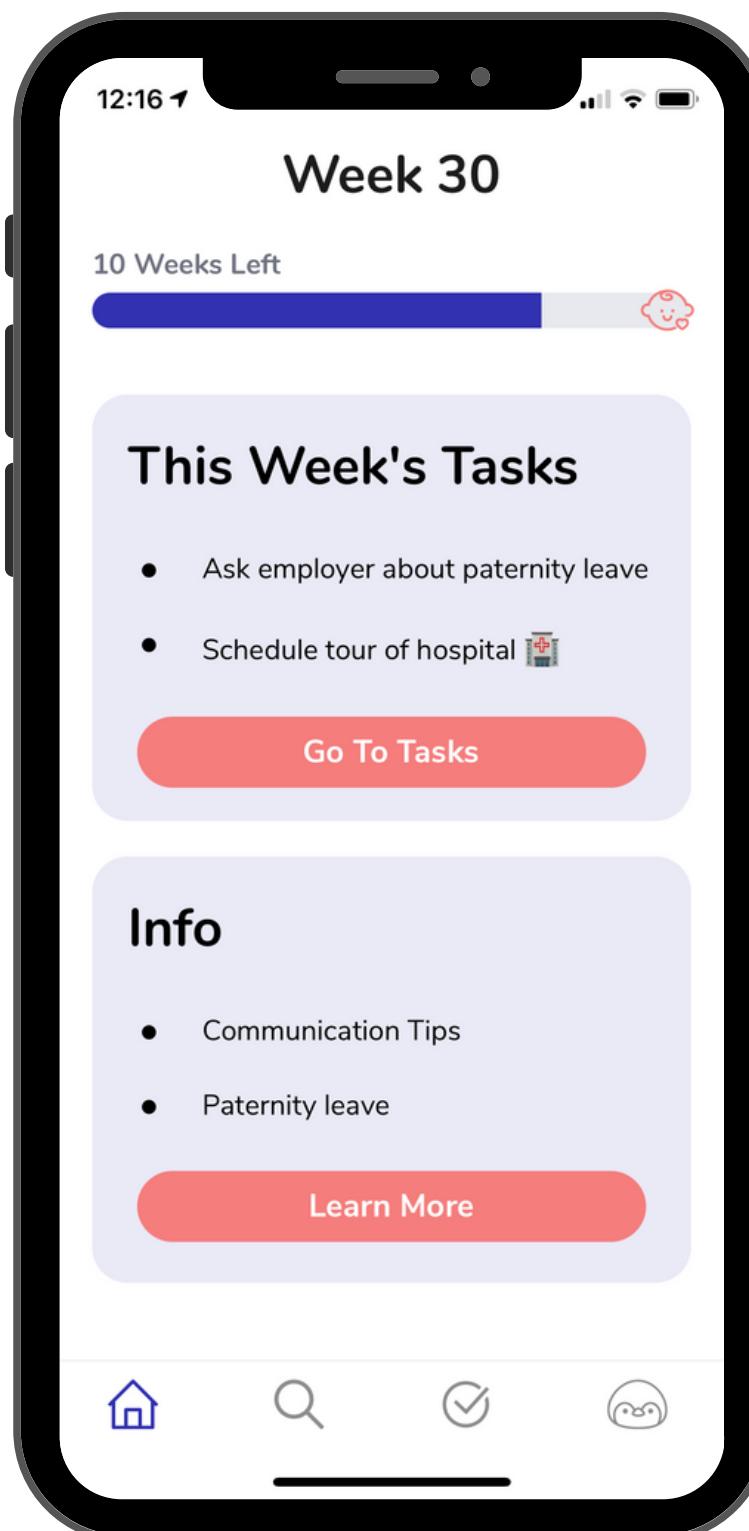
Activate "emergency mode" to access relevant information during labor or medical emergencies

Task 4 (Complex):

Add this week's suggested tasks to "my tasks" list

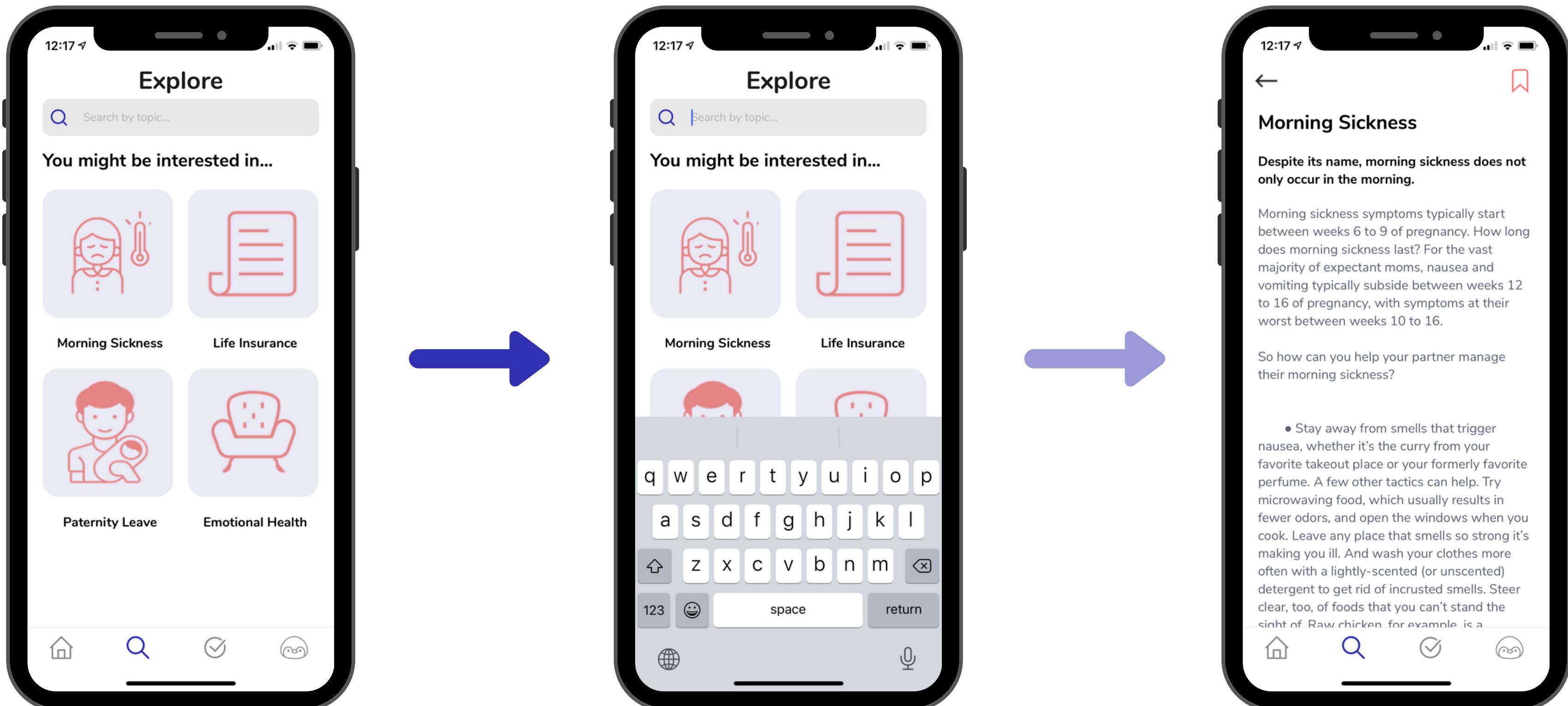
Implemented Features

Task 1: View relevant information for the current week of pregnancy



Implemented Features

Task 2: Search for and find information on specific topics



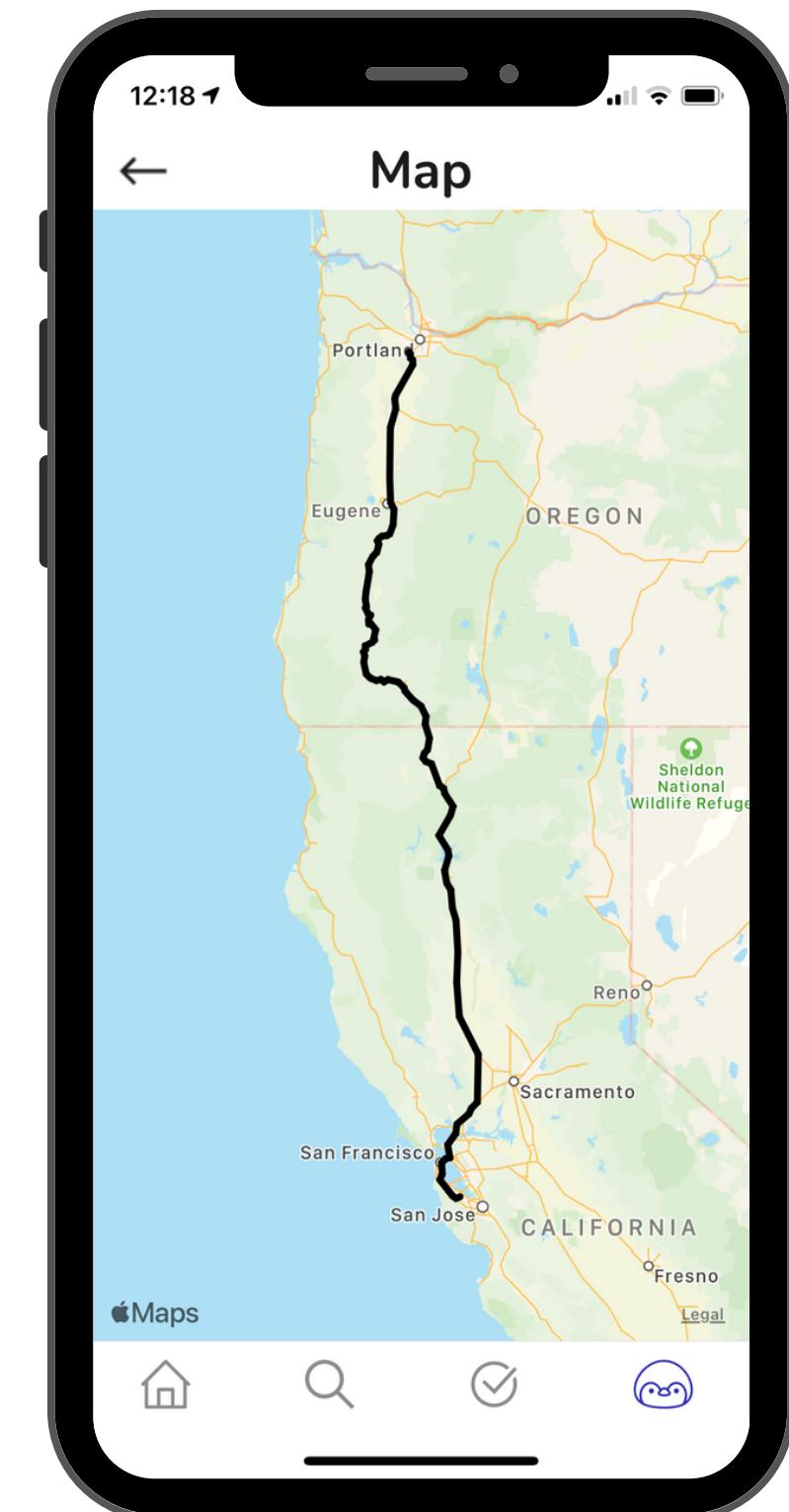
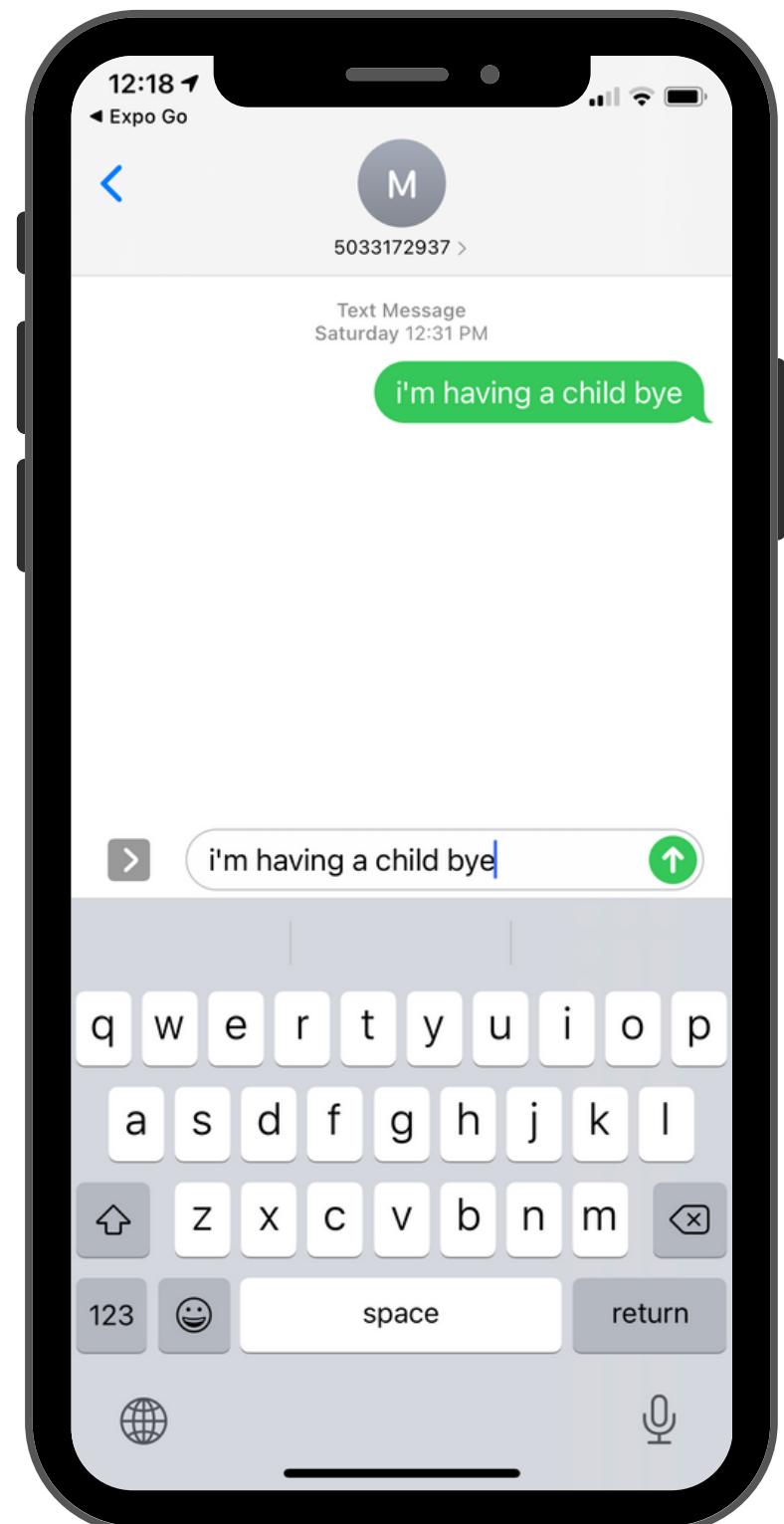
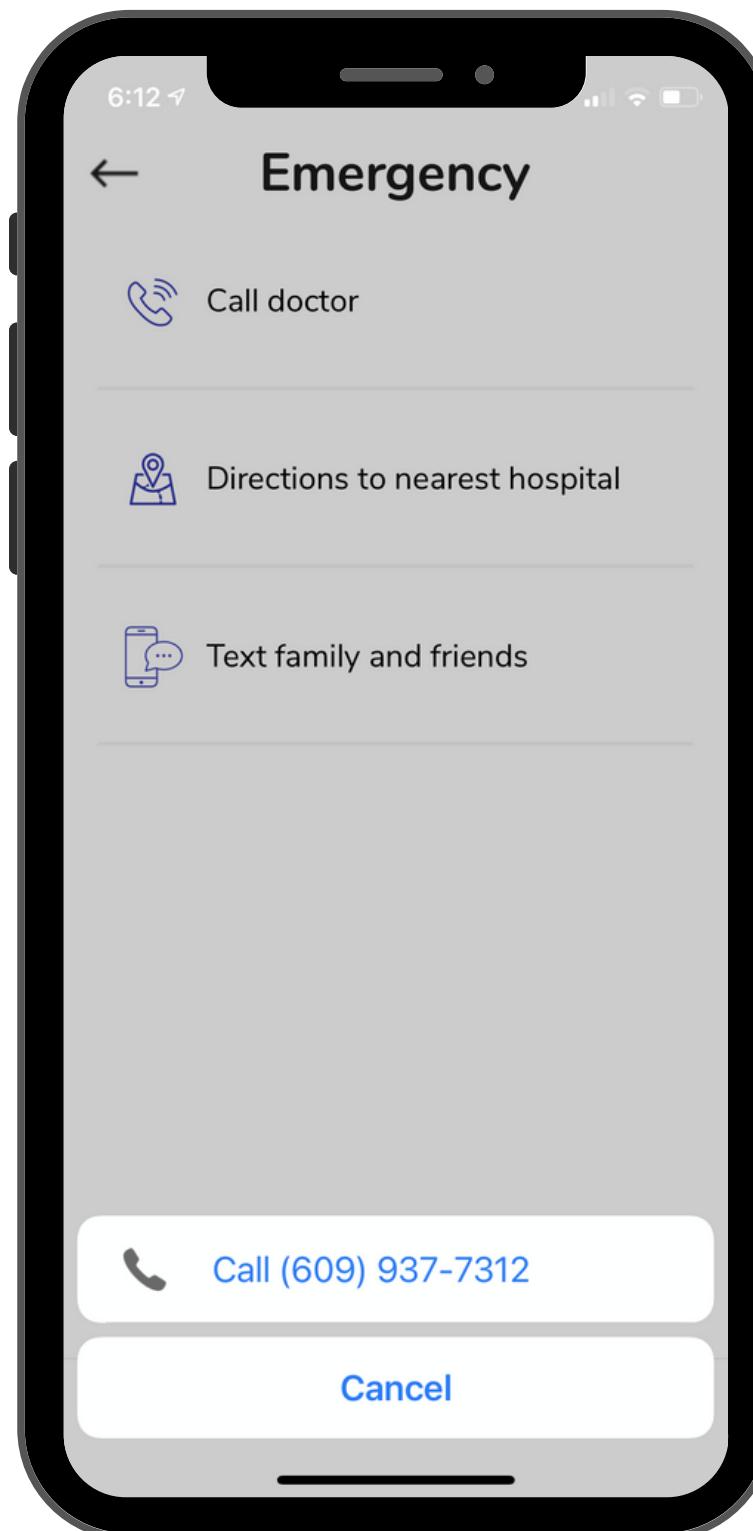
Implemented Features

Task 3: Activate "emergency mode" to access relevant information during labor or medical emergencies



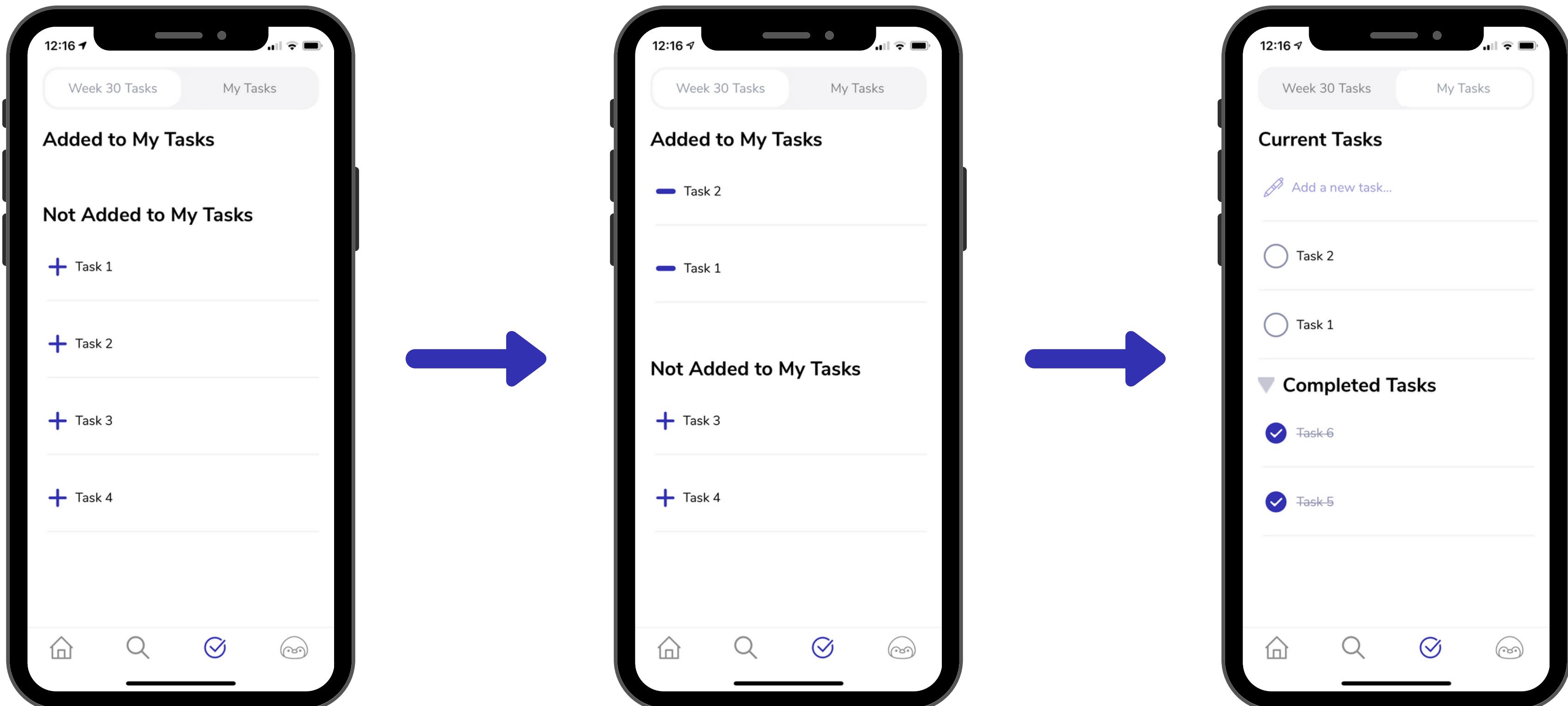
Implemented Features

Task 3: Activate "emergency mode" to access relevant information during labor or medical emergencies



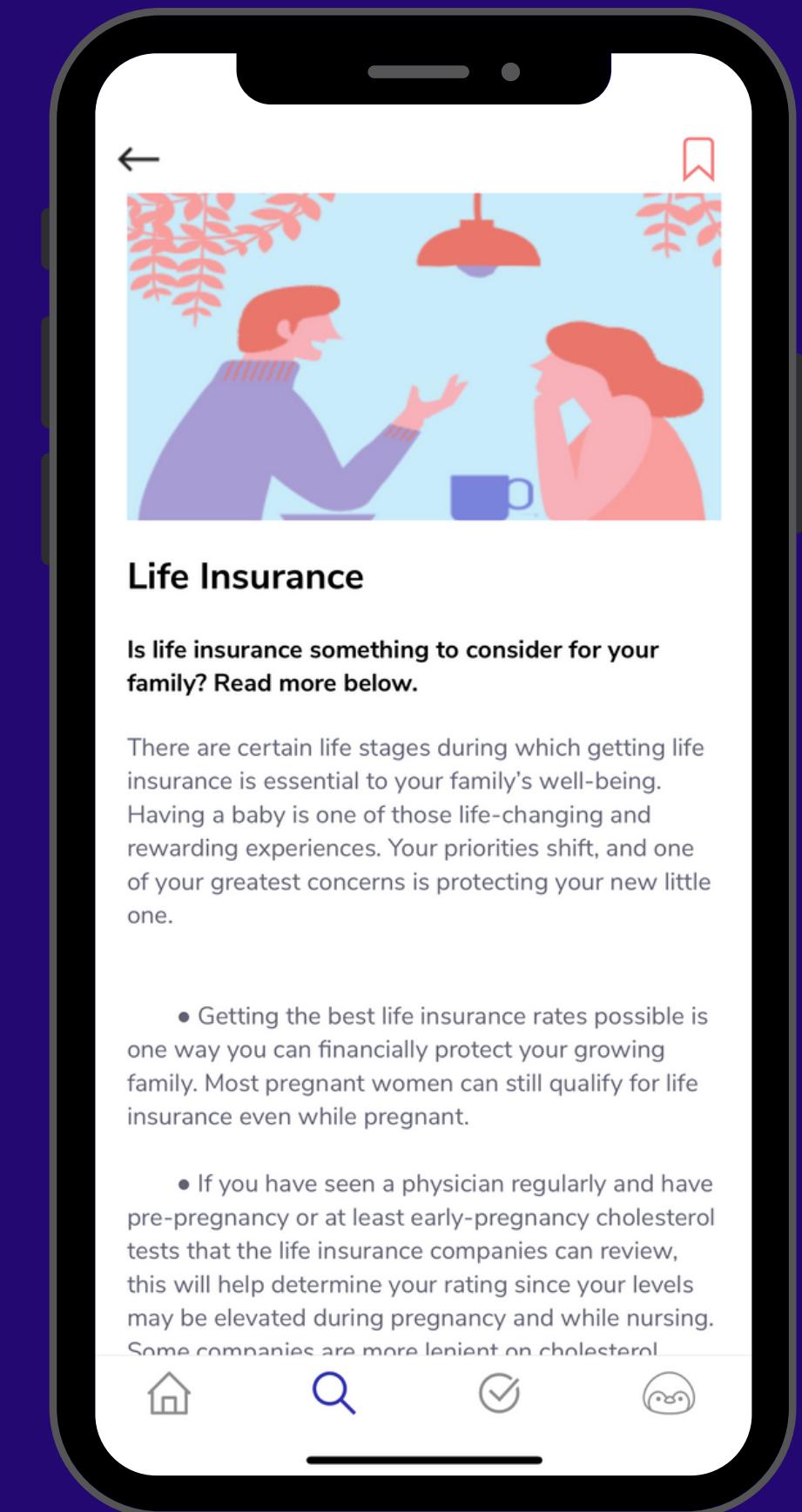
Implemented Features

Task 4: Add this week's suggested tasks to "my tasks" list



To be Implemented

- Data persistence for tasks screen
- Wire up settings page
- Add home screen date scrollbar
- Standardize styling
- Populate content (modules)



Stretch Goals



Search functionality
for Explore/FAQ

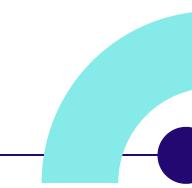
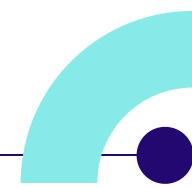


Directions in
emergency map view



Onboarding screens

Implementation Plan



THIS WEEKEND

- Data persistence on tasks screen
- Wire up settings page & clean up style

BY TUESDAY

- Add home screen scrollbar
- Search functionality for explore/FAQ

BY THURSDAY

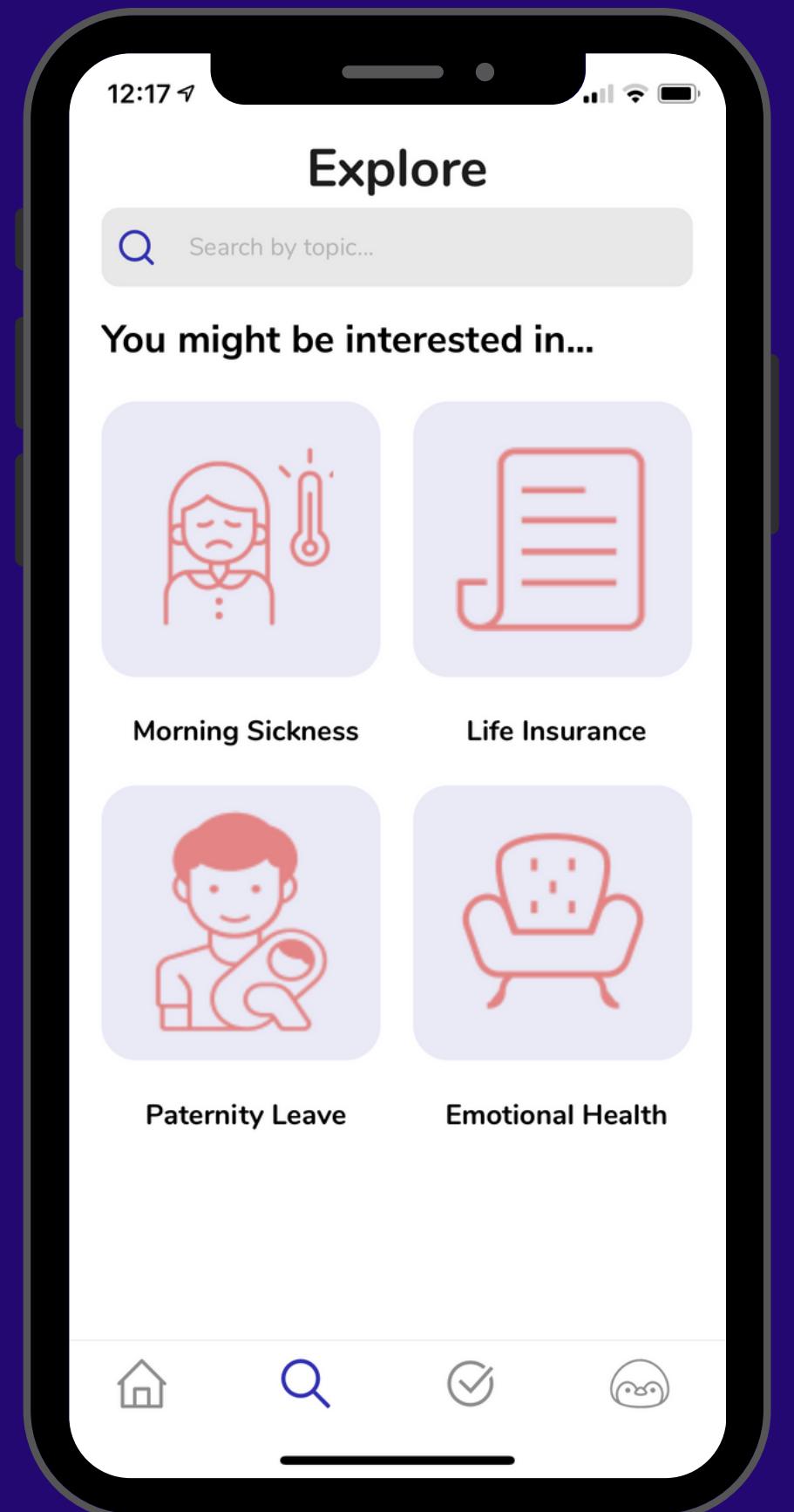
- Standardize styling
- Populate all text & media content

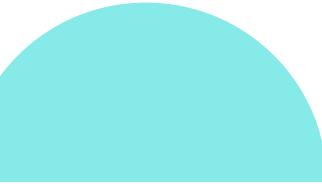
IF WE HAVE TIME

- Onboarding screens
- Directions in emergency map view

Wizard of Oz

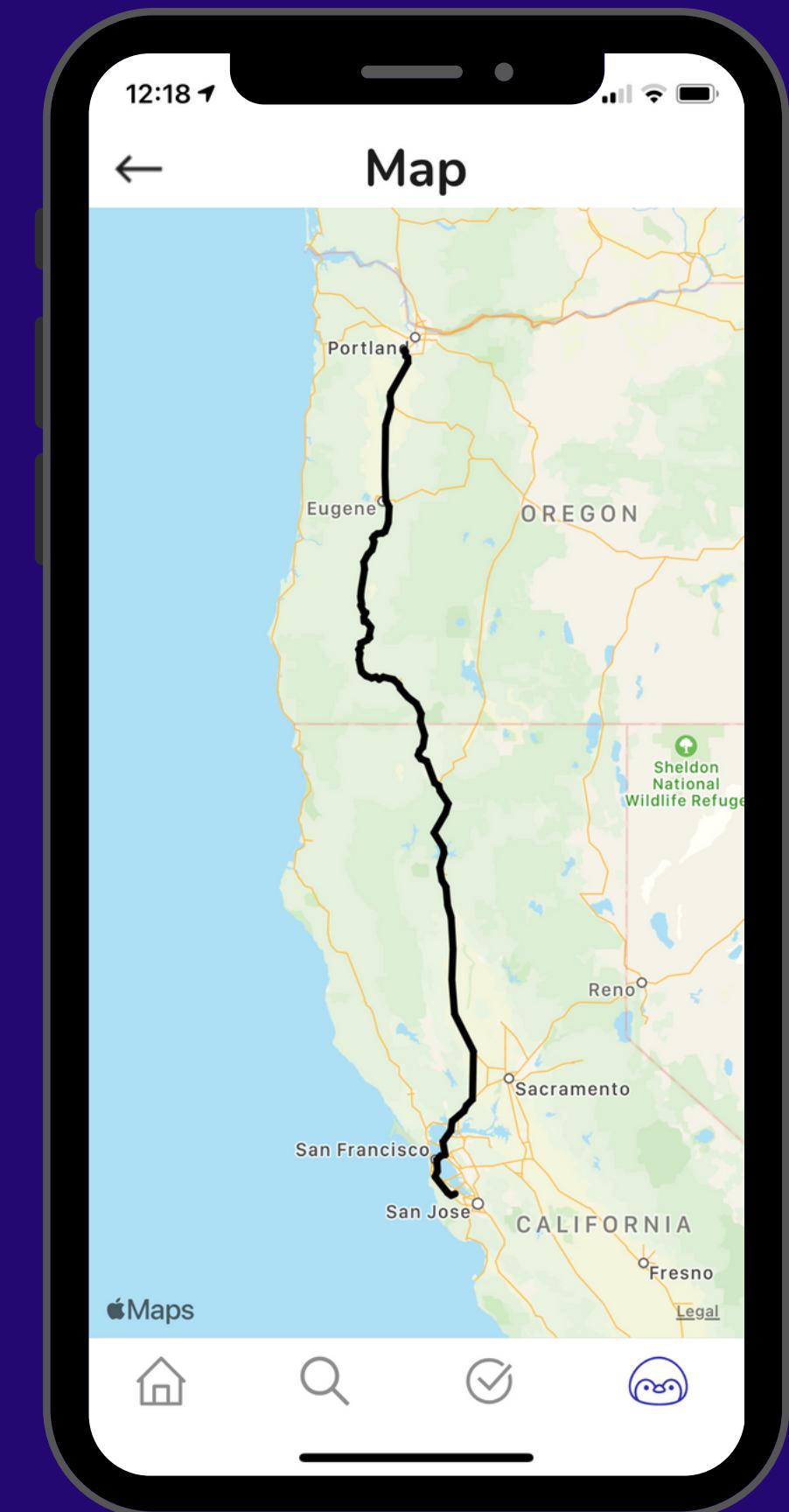
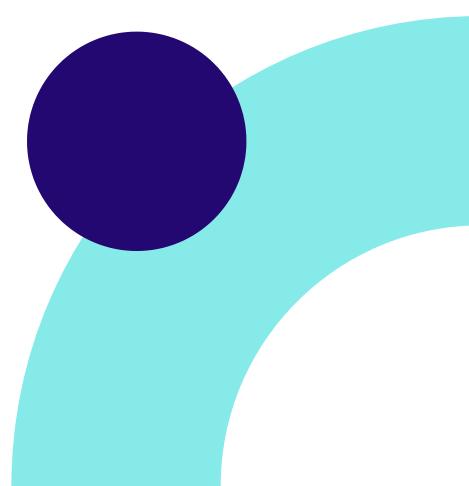
- AI algorithm is used to rank the tasks (important tasks are shown first)
 - Currently, tasks are shown in chronological order
- Pre-populated suggestions on Explore Screen based on past learning (AI)
 - Currently, AI is simulated with pre-determined topics

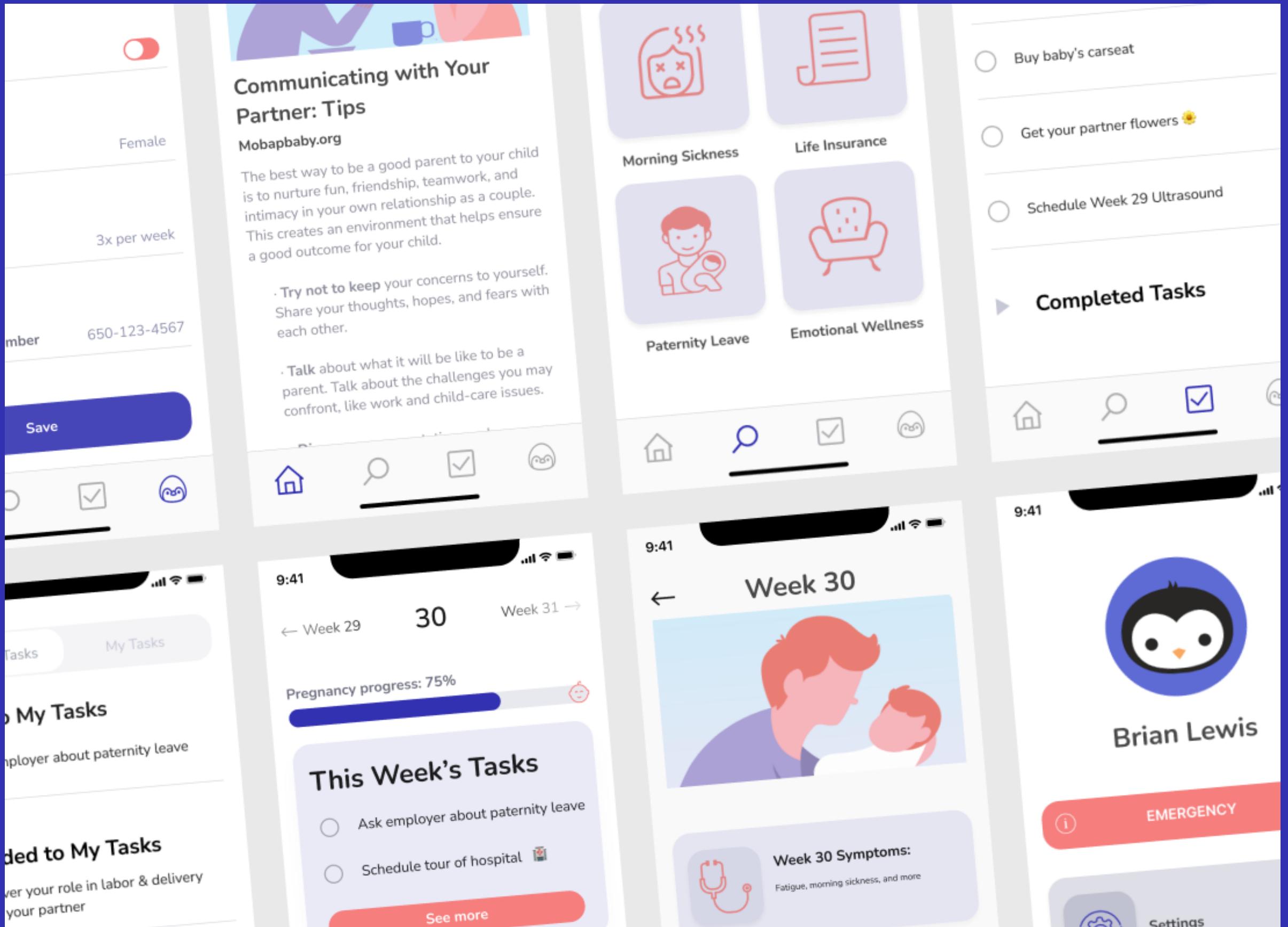




Hard Coded Data

- Learning content for Week 30
- Tasks for each stage
- Stage of pregnancy
- Map to the nearest hospital
- Doctor and family phone numbers for emergencies





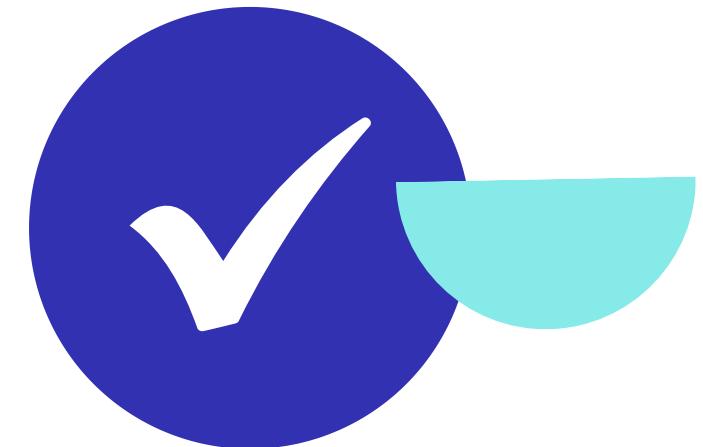
Live Demo

Summary

High-fi Prototype Progress



31 changes based on
heuristic evaluation

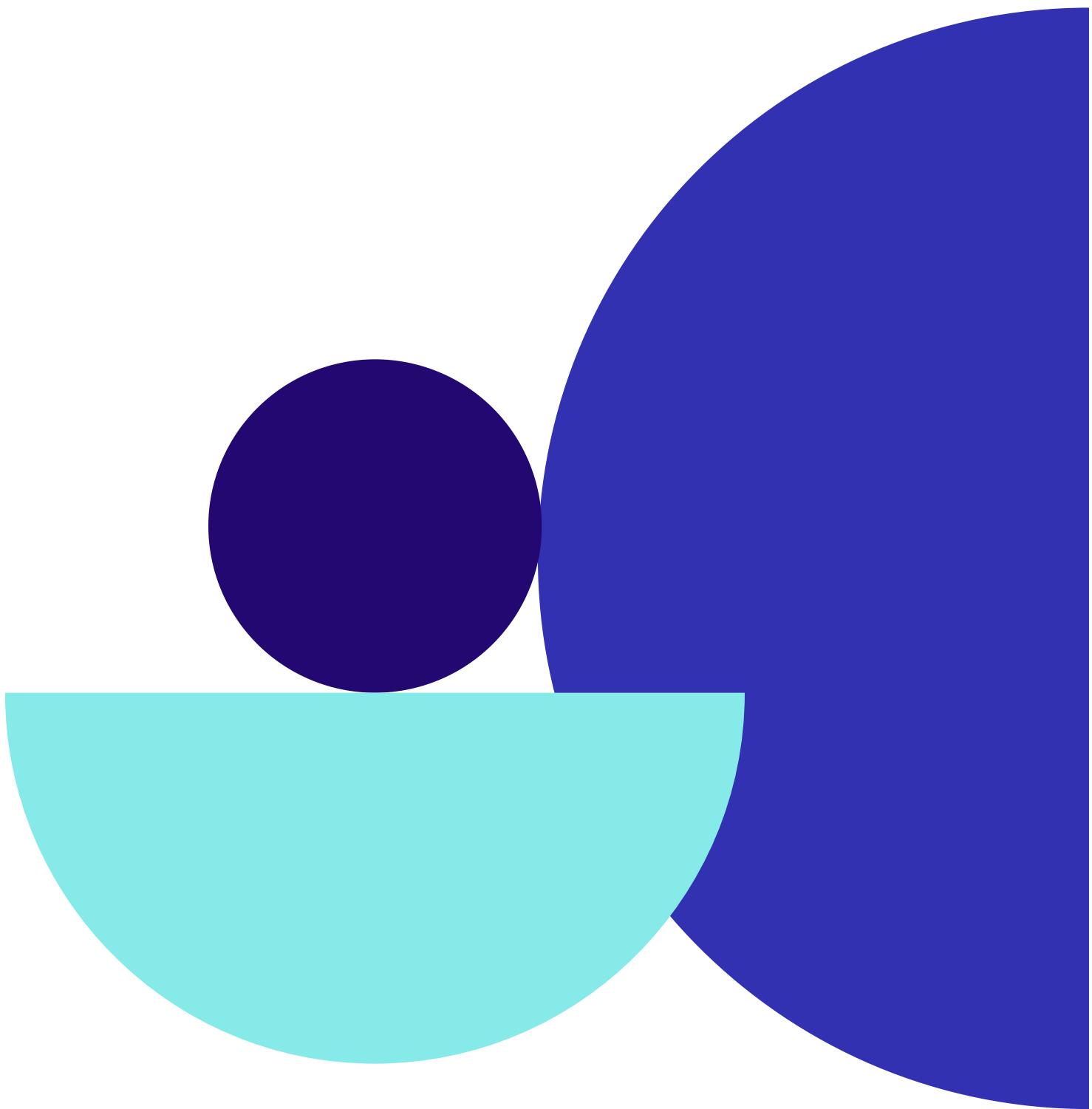


2 tasks **complete** and
the other 2 **in progress**



Plan created to finish by
the deadline

**Thank you!
Questions?**



Appendix

Heuristic Violations

1. H7: Flexibility and Efficiency of Use / Severity: 4

Problem: Users cannot create new tasks to personalize.

Fix: We added a new "Edit" button for each task, as well as a pencil icon where users could input a new task.

2. H1: Visibility of System Status / Severity: 3

Problem: Progress Bar was not informative.

Fix: List expected pregnancy date at the end of the bar, along with "X weeks left"

Heuristic Violations

3. H1: Visibility of System Status / Severity: 3

Problem: Unclear that the 30 in the title refers to the week.

Fix: Added the “Week” prefix to the center title and removed it from the navigation buttons to the side.

4. H1: Visibility of System Status / Severity: 3

Problem: Unable to see what happens when the user completes a task from the home page.

Fix: Switched to bullets on the home page so it's clear users can't complete tasks from the home screen.

Heuristic Violations

5. H1: Visibility of System Status / Severity: 3

Problem: Unclear whether week 30 is the current week, or a future/past week that the user navigated to using the left/right Week # buttons.

Fix: Highlight current week by making it a different color in week scrollbar/header

6. H2: Match between System and World / Severity: 3

Problem: When a user presses on “see more” button, they would have to use the bottom navigation bar to return to the home page.

Did Not Fix: Chose not to implement this change because it would make the task screen cluttered if we tried to implement a back button as well.

Heuristic Violations

7. H1: Visibility of System Status / Severity: 3

Problem: Stars denoting the items inside the “Info” card view are confusing

Fix: Switching to regular bullets on the home screen instead of stars

8. H2: Match between System and World / Severity: 3

Problem: X's over woman's eyes in "morning sickness" signifies death

Fix: Updated the icon to not include X's over the woman's eyes

Heuristic Violations

9. H1: Visibility of System Status / Severity: 3

Problem: Toggle on settings page is switched on by default

Fix: Changed the background color to indicate the toggle is off by default

10. H3: User Control and Freedom / Severity: 3

Problem: Users cannot currently delete existing tasks from added and unadded sections

Fix: Added a swipe to delete functionality on all tasks

Heuristic Violations

11. H4: Consistency and Standards / Severity: 3

Problem: Labor mode UI design not consistent with the rest of the app

Fix: Replace ">" with the appropriate colored icons, use cards, and make font consistent

12. H4: Consistency and Standards / Severity: 3

Problem: "Bookmark", "star", and "saved" icons are all used for saving functionality

Fix: Standardized all saving functionality to use the bookmark icon

Heuristic Violations

13. H5: Error Prevention / Severity: 3

Problem: The user can accidentally exit the settings page without saving changes

Fix: "All changes are autosaved" message is shown once settings are modified

14. H6. Recognition, Not Recall / Severity: 3

Problem: After navigating to the tasks page, it is unclear whether the home screen has tasks from week 30 or the most urgent tasks overall.

Fix: Added a clarification to FAQ + info about this added in onboarding

Heuristic Violations

15. H6: Recognition, Not Recall / Severity: 3

Problem: Users can't access unsaved tasks from the previous week

Fix: Homescreen scrollbar is used to navigate between weeks on the home page

16. H6. Recognition, Not Recall / Severity: 3

Problem: Users can't complete a task from Week 30 tasks page

Did Not Fix: Did not adopt because week 30 tasks page is just to add items to my tasks and tasks can only be completed from my tasks, made this distinction clearer in FAQ + onboarding

Heuristic Violations

17. H7: Flexibility and Efficiency of Use / Severity: 3

Problem: In the Emergency page, there is no visual representation of the actions so users do not know what they are pressing on.

Fix: Added icons next to each action: phone/doctor icon next to Call doctor, map icon next to Directions to nearest hospital, etc.