



Designing for an Active Transition into a Retirement Lifestyle

Adam Barry, Amy Chang, Ethan Hellman, Brendan McLoughlin

CS 147 · F23 · Stanford University



Sage

VALUE PROP

**Creating newfound purpose and
friendships through gardening**

Team



Name: Adam Barry
Year: Junior
Major: Computer Science (HCI)



Name: Amy Chang
Year: Junior
Major: Computer Science (HCI)



Name: Ethan Hellman
Year: Senior
Major: Computer Science (AI)



Name: Brendan McLoughlin
Year: Senior
Major: Computer Science (HCI)

Outline

1. Problem & Solution Review
2. Heuristic Evaluation Results
3. Revisions
4. Prototype Implementation Status
5. Live Demo

Problem & Solution Review

Problem & Solution

Needs & solution

NEEDS



Create sense of purpose

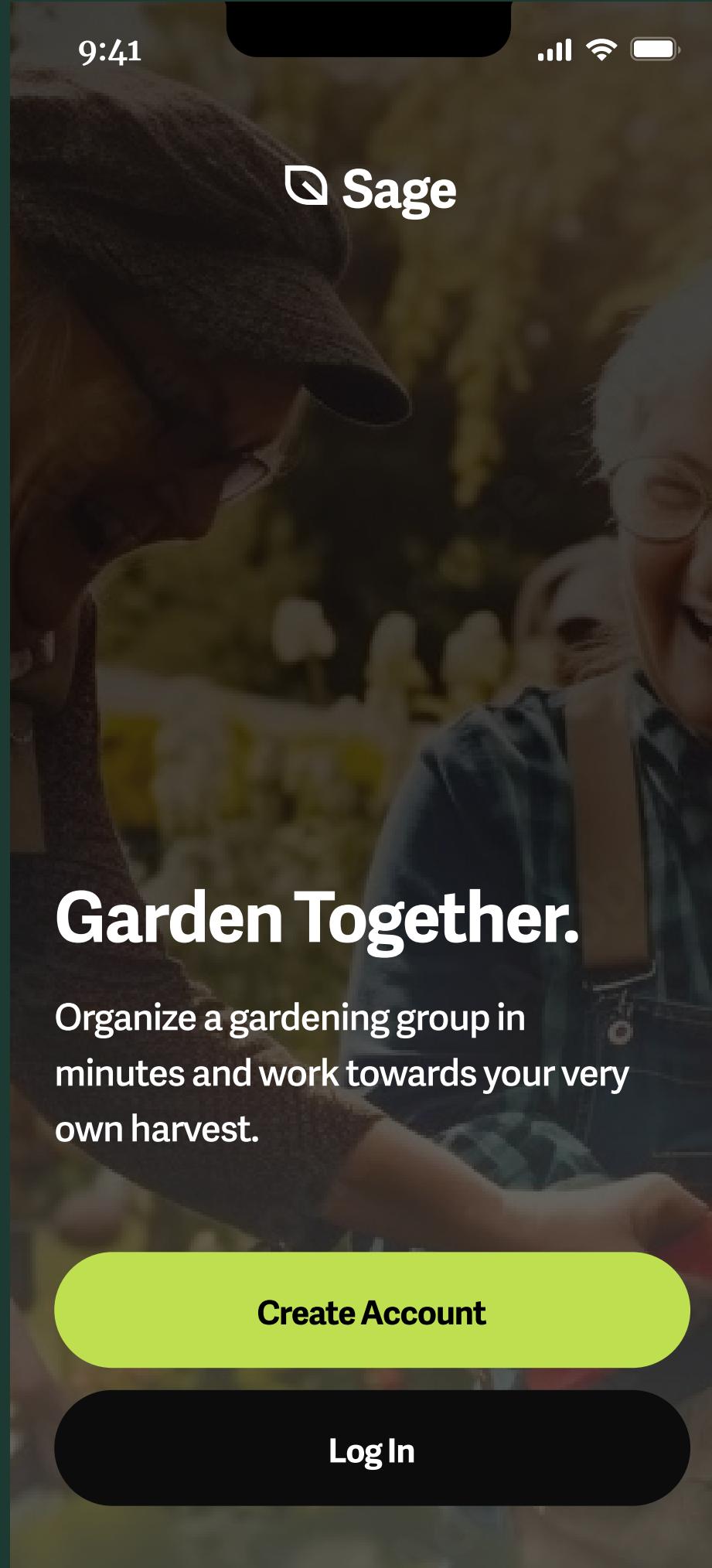


Prevent loneliness

SOLUTION

App that organizes shared gardens & strengthens community

MedFi Prototype



9:41

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Select Garden

Select a home base garden for your group. Allow Sage to access your location so we can find some gardens in your area.

Private Garden ?

Enter the address of your private garden

OR

Local Garden ?

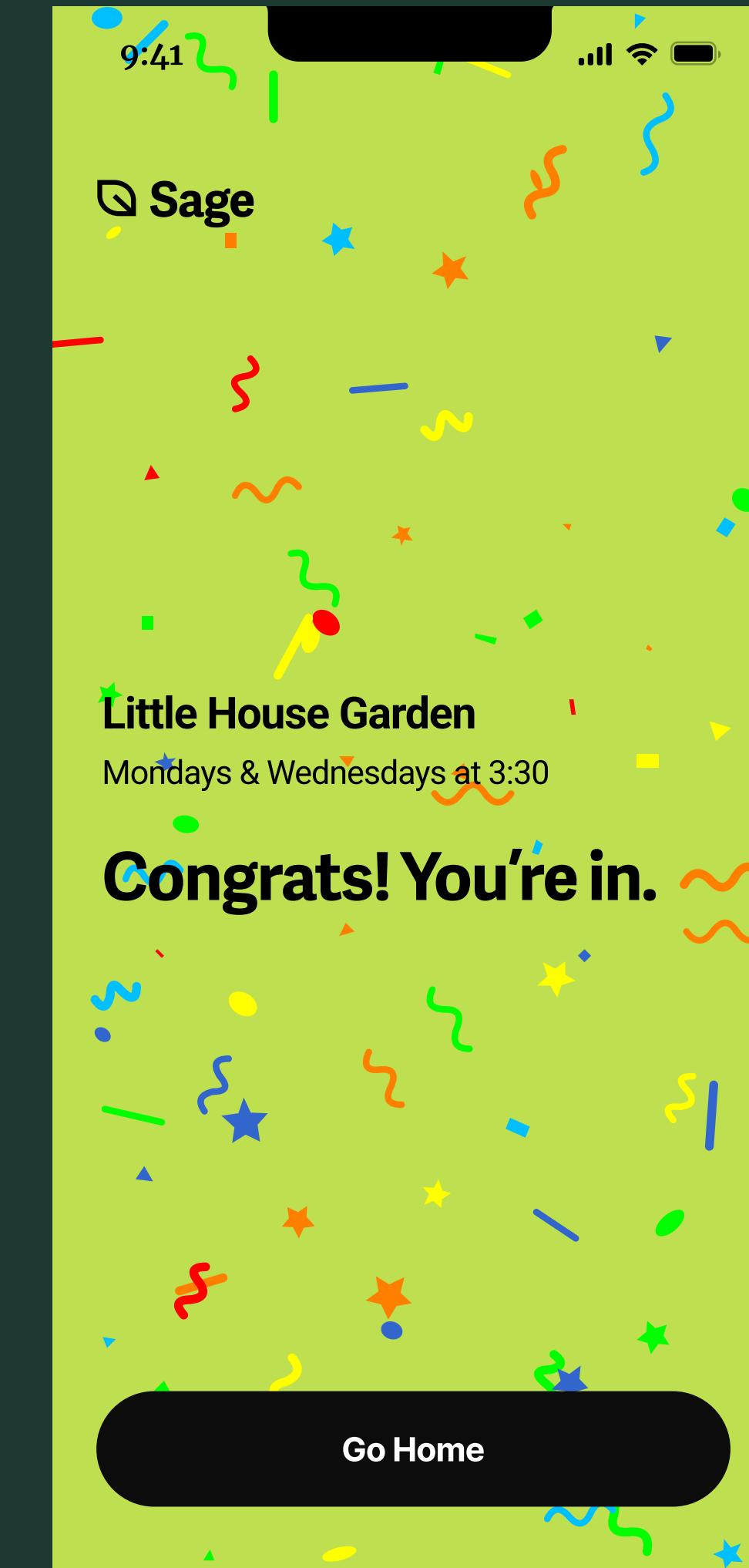
Search garden names or locations

Little House Garden
0.5 miles away · 5 min drive
[View Details →](#)

Jeremy's Community Garden
0.5 miles away · 5 min drive
[View Details →](#)

Continue

0.5 miles away · 5 min drive



9:41

Matt's Garden Edit

Meets at Little House Garden ? at 3:30pm on Fridays

Are you coming this Friday?

✓ Yes ✗ No Maybe

Attending this week

Jack Marie Nancy + Invite

Not Attending

Message Bob and Joe to let them know you will miss seeing them this week! x

Bob

Heuristic Evaluation Results

Heuristic Evaluation Results

High Level Summary - 46 total violations

1.

Confusion over
whether users can
join/create multiple
gardens

2.

Requests to streamline the
check-in task flow, including
making messaging more
intuitive

3.

Design oversights

Severity 3 Violations - 11 Found

1. Putting those who can't attend at the bottom is against our values
2. Unclear how to leave this garden and join a different garden
3. Messaging task flow is missing some wiring preventing ease of use
4. Miscellaneous - Specifying garden times, photos too far down, invite word clarity

Heuristic Evaluation Results

Severity 4 Violations - 3 Found

38. H1: Visibility of System Status / Severity: 4 / Found by: A

- The user cannot both join a group and create a group. They can only complete one action or the other, and only within the “Create Account” page. A user may want to both create a group and join others, or they may want to do each of these actions numerous times.
- Fix: After completing each of these tasks (joining or creating a group), give the option to do both of these again.
- **Task 7: Create a Group**

36. H10: Help & Documentation / Severity: 4 / Found by: A, B

- It is unclear how you can join or create a group, as this is only possible when you are first creating your account. A user may want to create a group after already having an account, and thus skipping “create account” and going straight to “log in”. Once logged in, they’ll have no way to join a group.
- Fix: Add a button or option to “create a group” once already logged into the app. ○ **Task 6: Join Sage**

Two violations related to only being allowed to join or create one garden

Severity 4 Violations - 3 Found

26. H4: Consistency & Standards / Severity: 4 / Found by: A, B

- The right side of the header on the “Matt’s Garden” screen shows “settings” initially but changes to “edit” after messaging Bob and returning to the home page. The inconsistency makes the purpose of “settings” and “edit” unclear to the users and makes it difficult to access “settings” again after returning to the home page.
- Fix: Keep the text for the button consistent as “settings” across all screen accesses, or provide both options for “edit” and “settings” if they serve different purposes.
- **Task 3: Check-in on a Group Member**

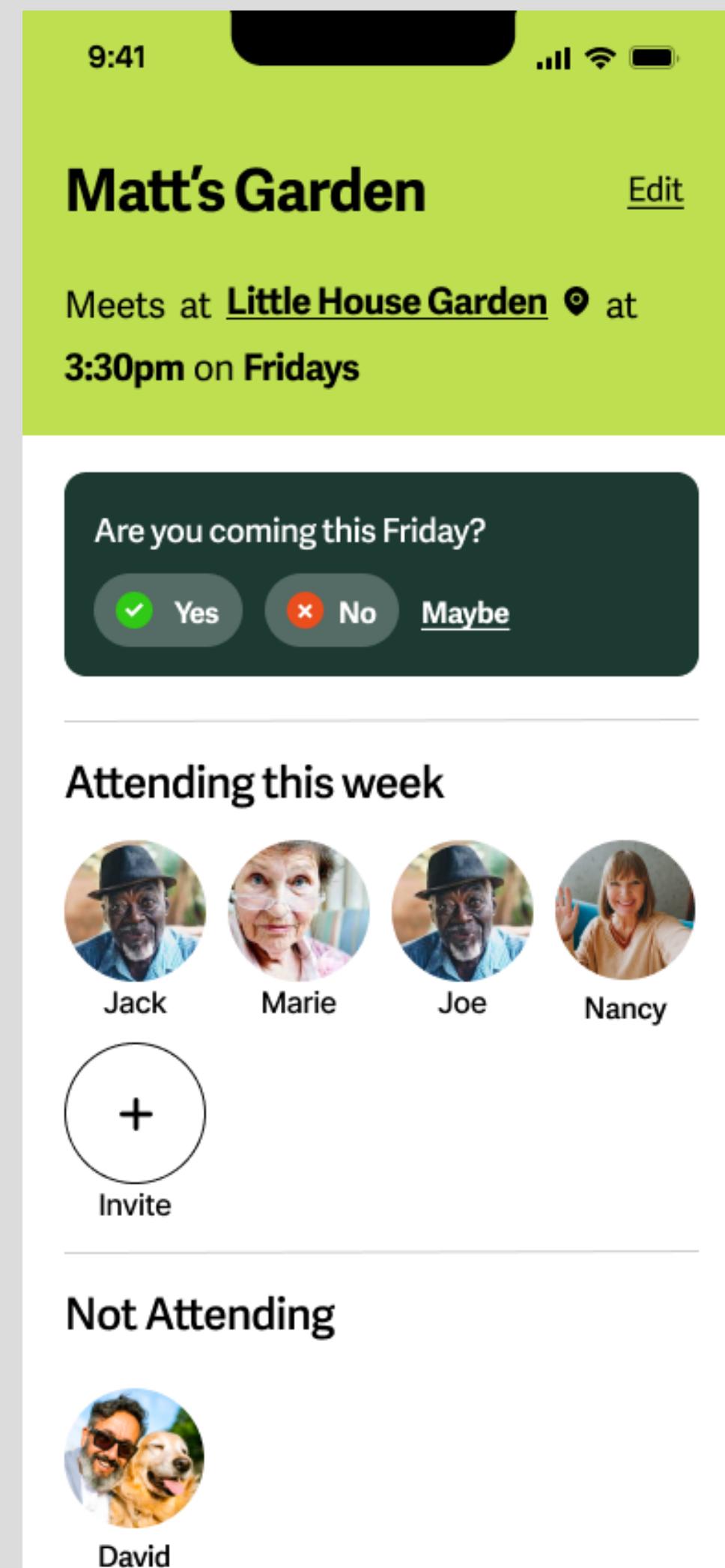
One design oversight

Revisions

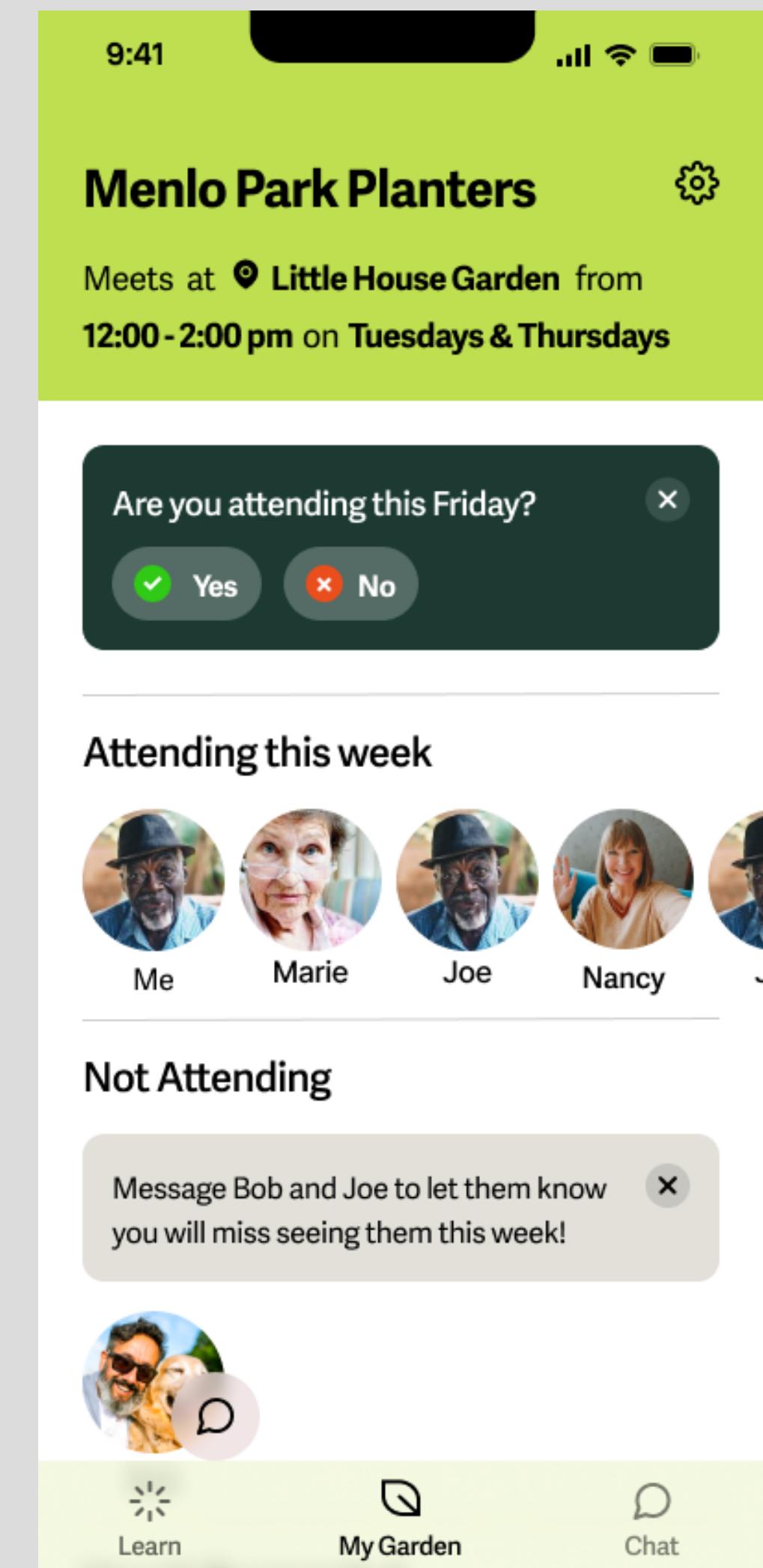
Revisions

**Horizontal scroll used
to ensure “Not
Attending” is above the
fold on all devices.**

Old

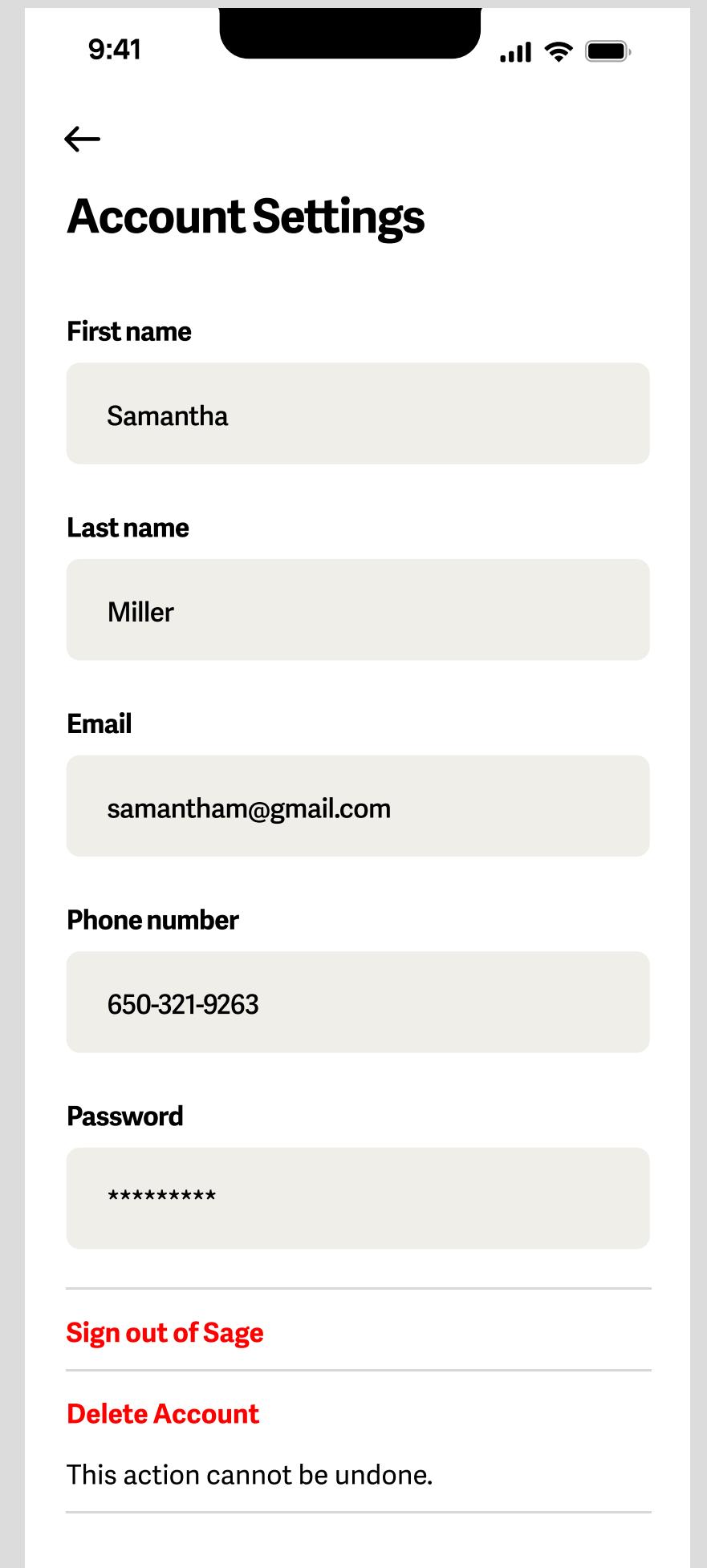
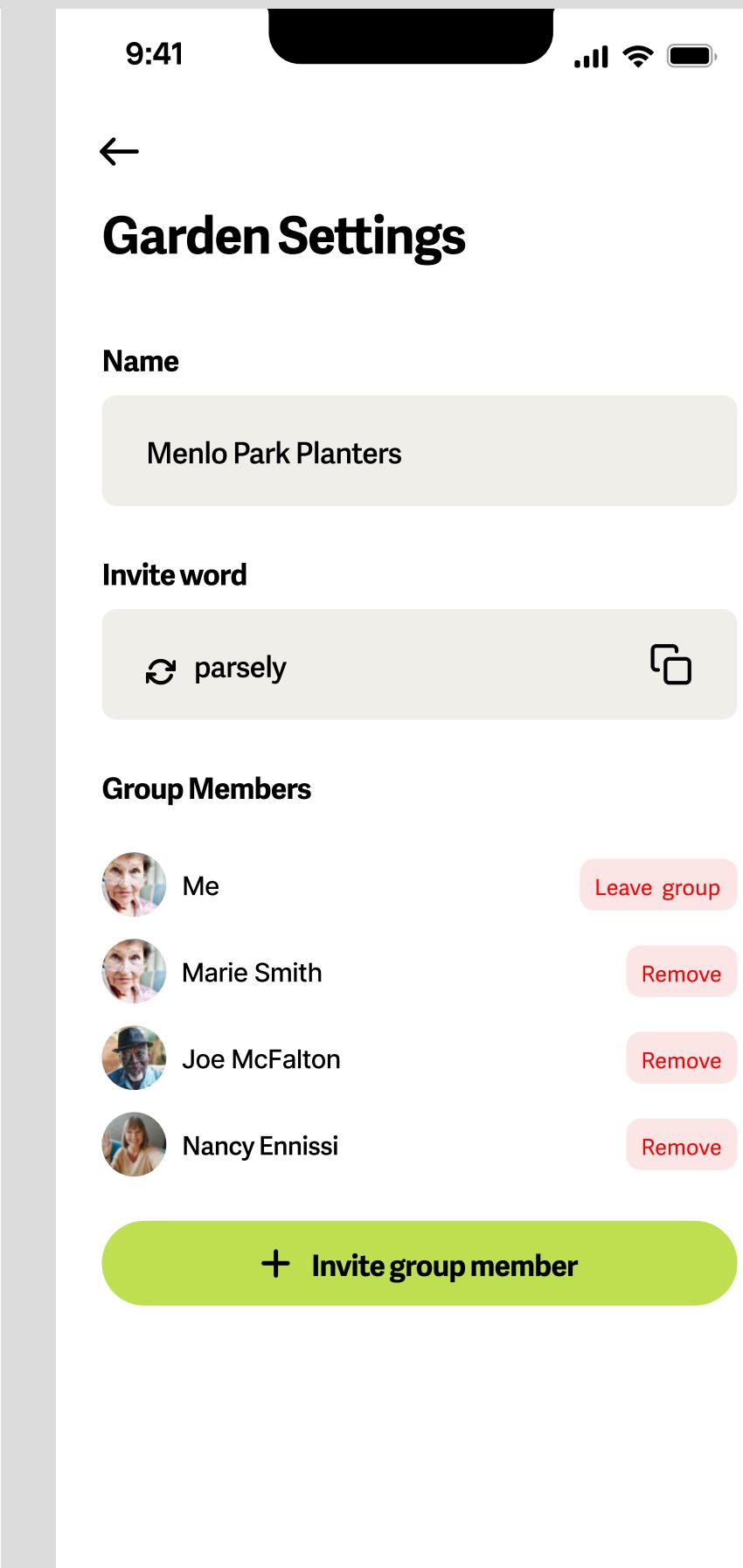
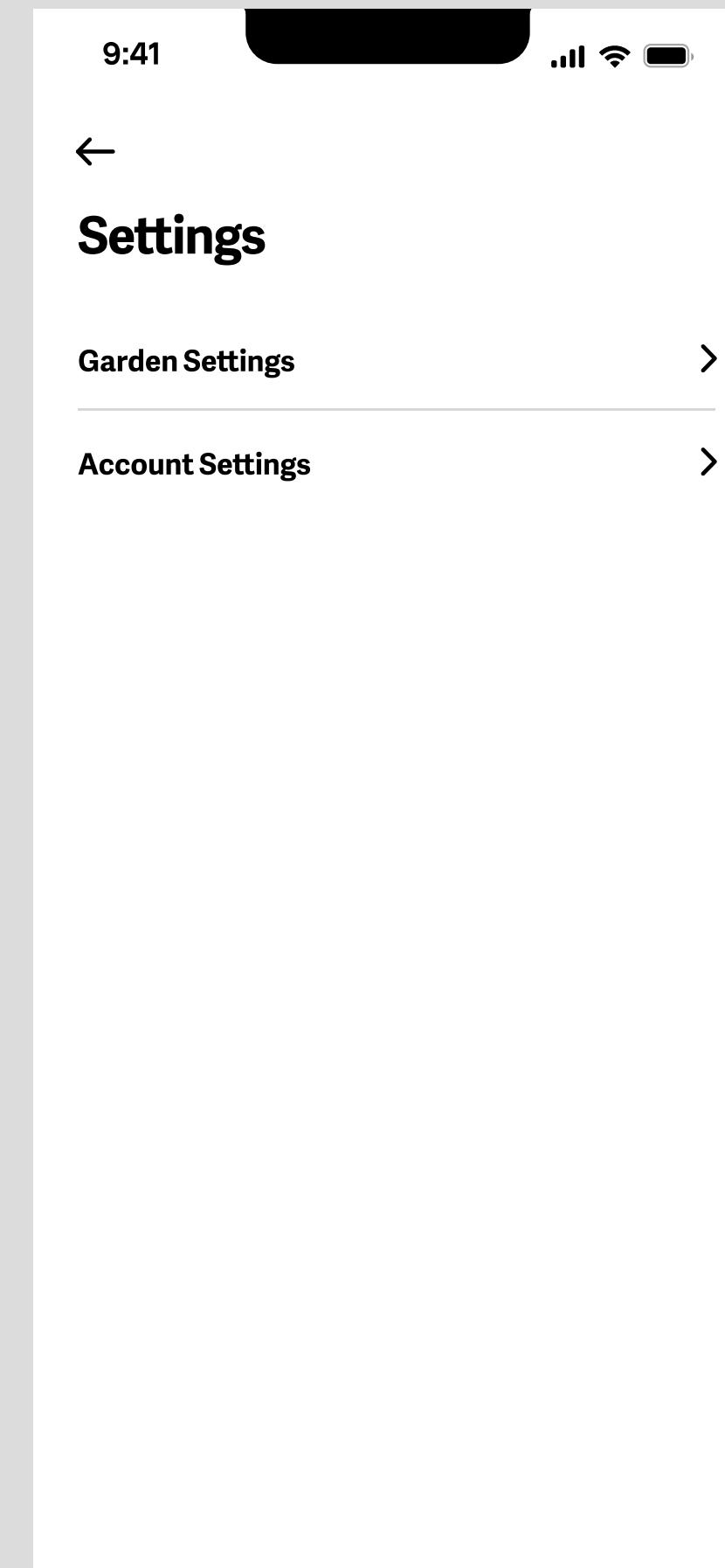


New



Revisions

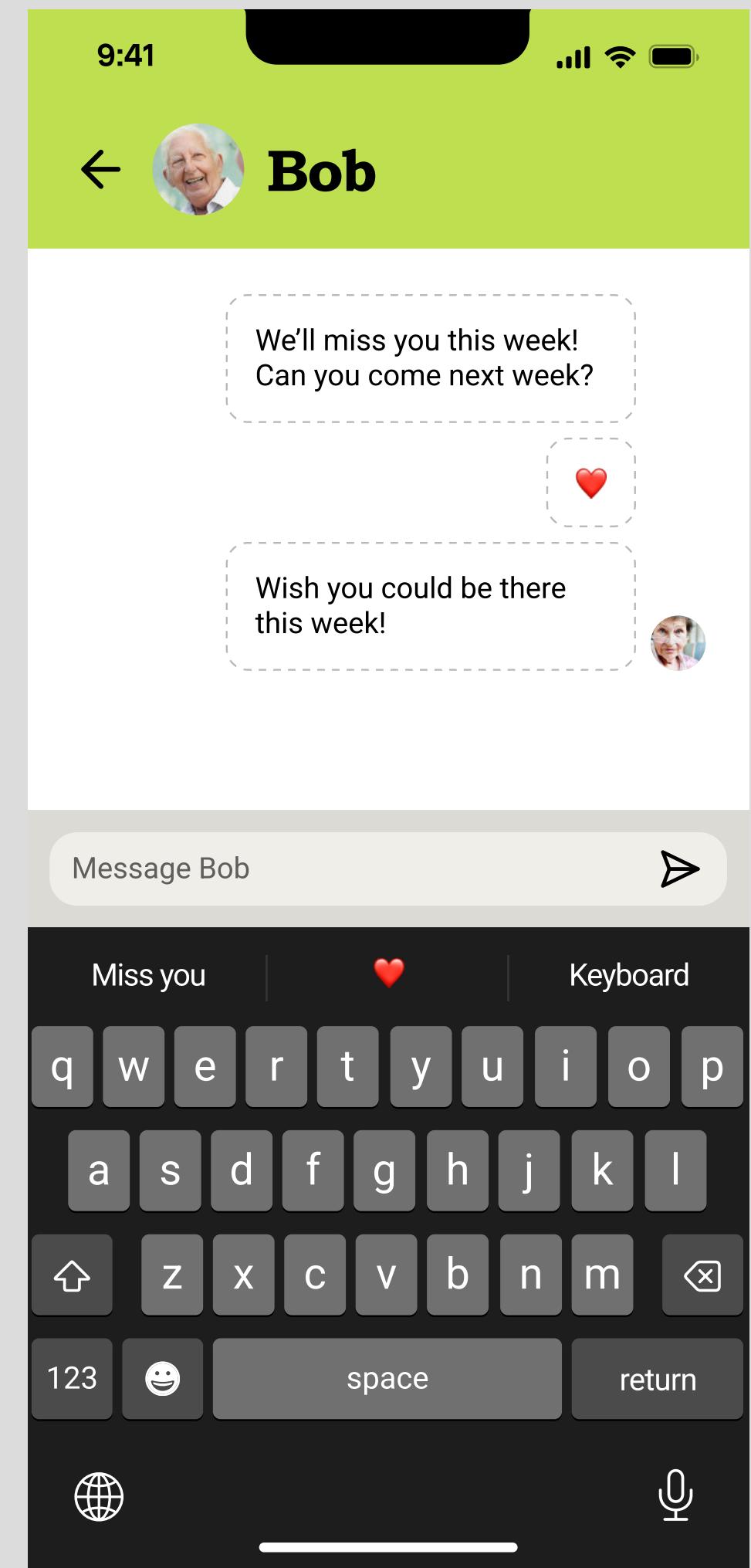
**Added settings,
allowing users to leave
their current garden to
join a new one**



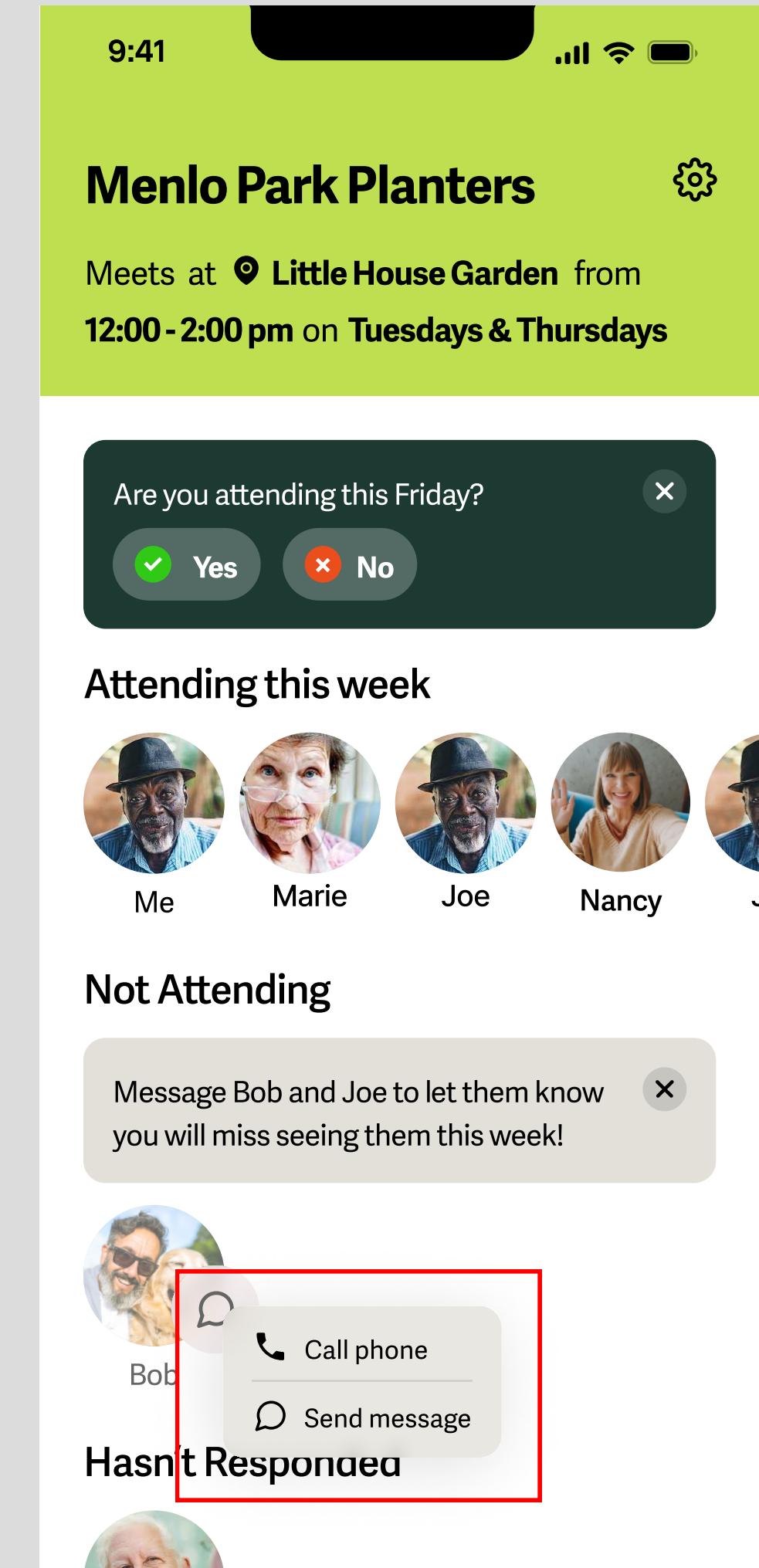
Revisions

Integrated the device's native text and call feature to make checking in more intuitive

Old

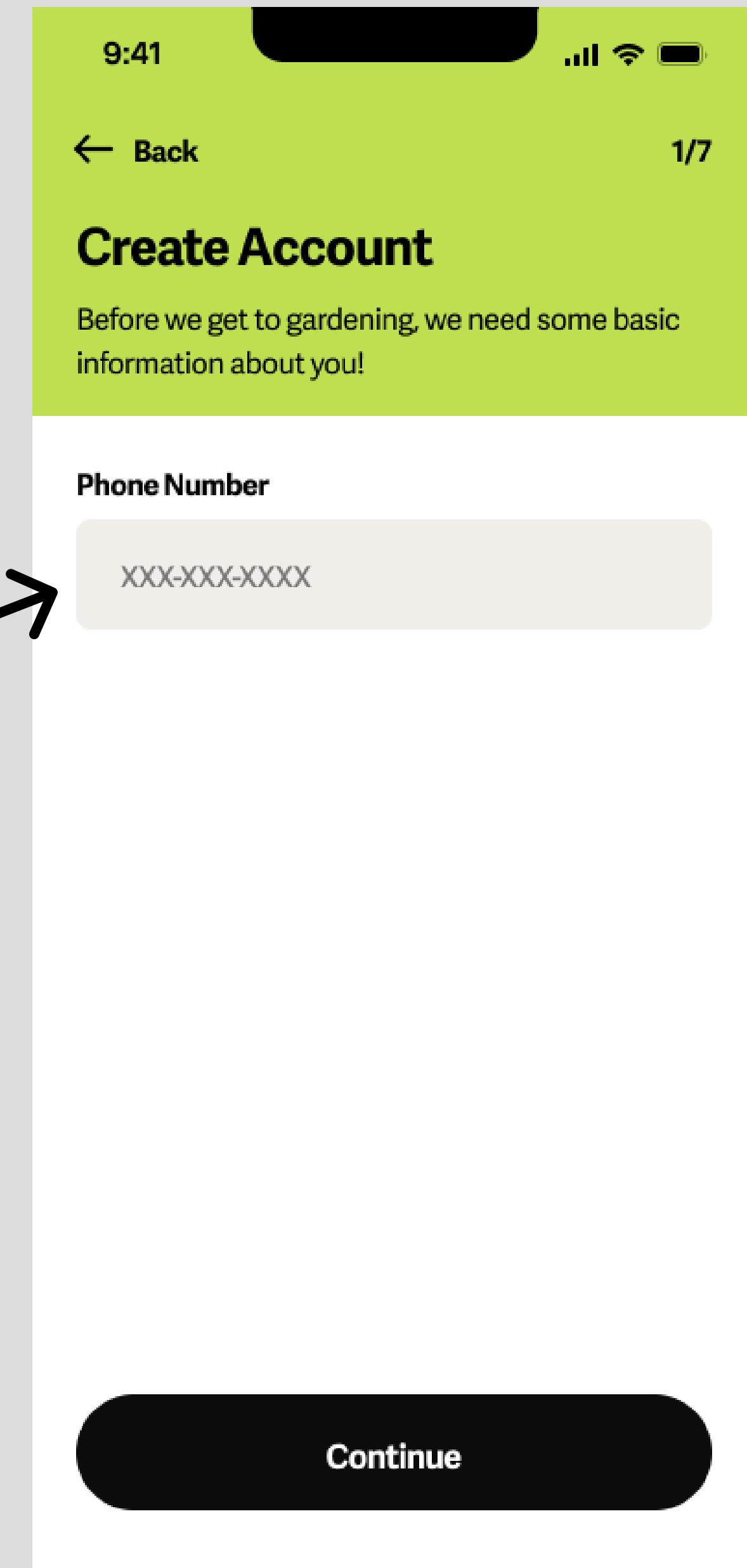


New



Revisions

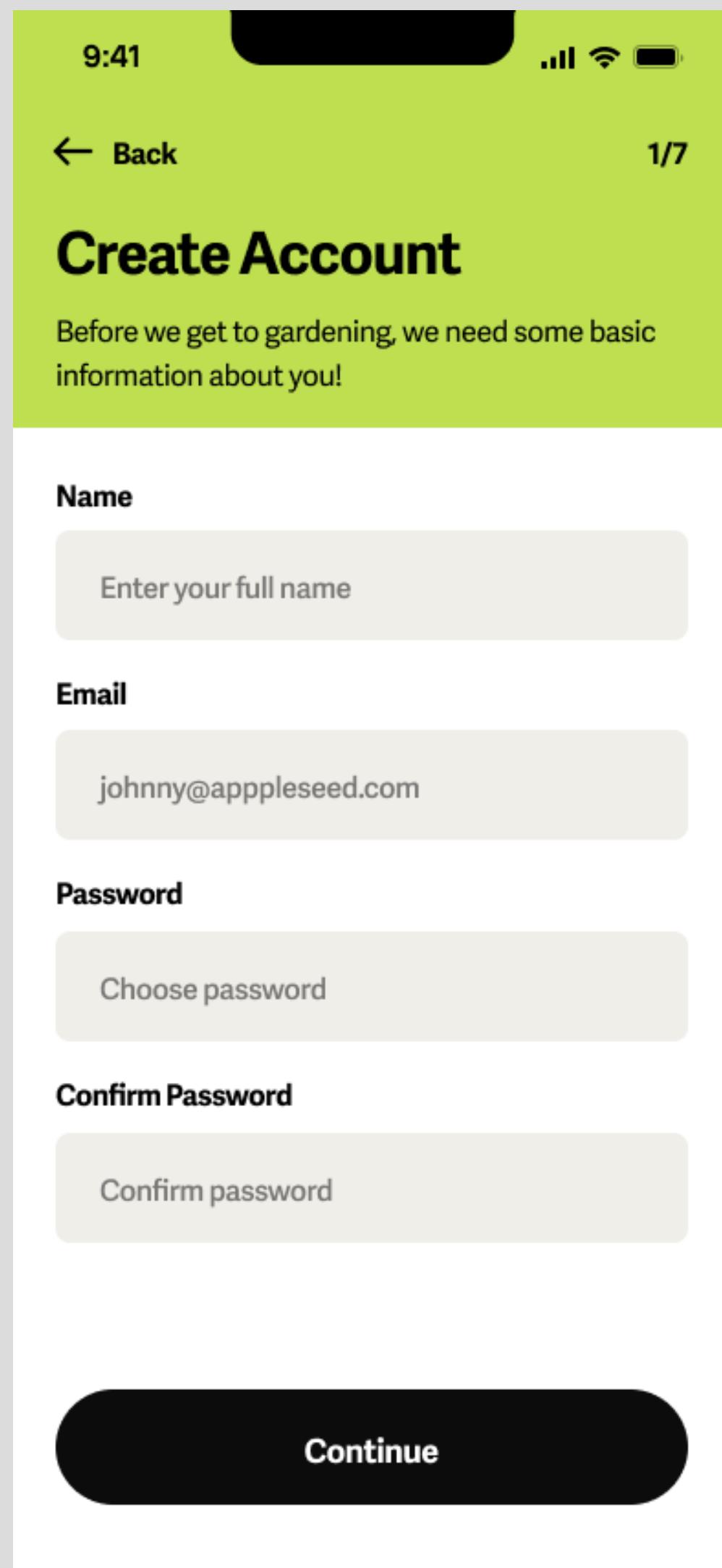
**Added phone number
input during
registration to support
use of native text
and call feature**



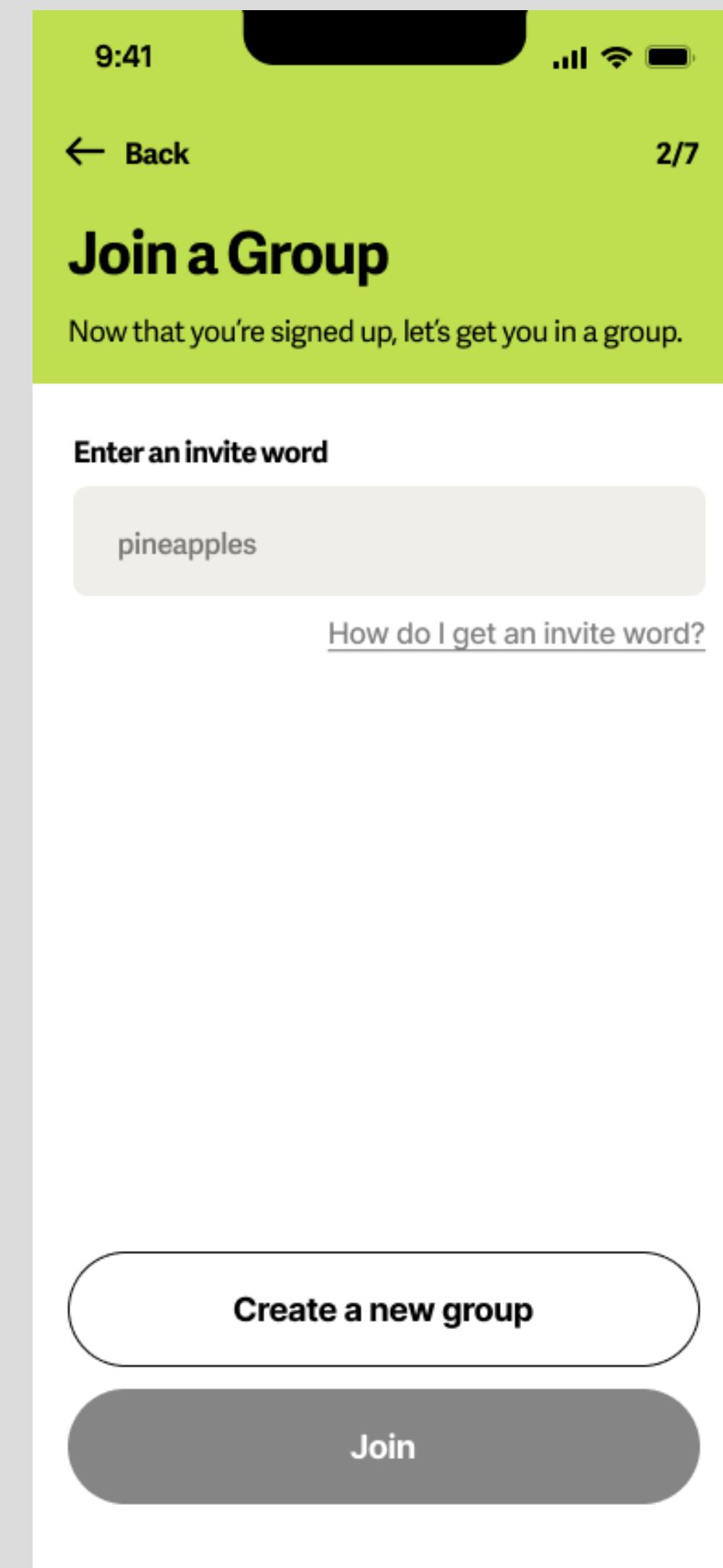
Revisions

Separations of registration flow for speed, usability and clarity

Old



Old



New

9:41

← Back 1/7

Create Account

Before we get to gardening, we need some basic information about you!

Name

Continue

New

9:41

← Back 1/7

Create Account

Before we get to gardening, we need some basic information about you!

Email

Continue

New

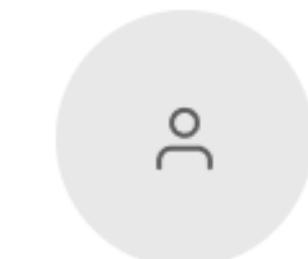
9:41

← Back 1/7

Create Account

Before we get to gardening, we need some basic information about you!

Profile Photo



Take Photo

Choose from library

Finish

New

9:41

← Back 1/7

Create Account

Before we get to gardening, we need some basic information about you!

Password

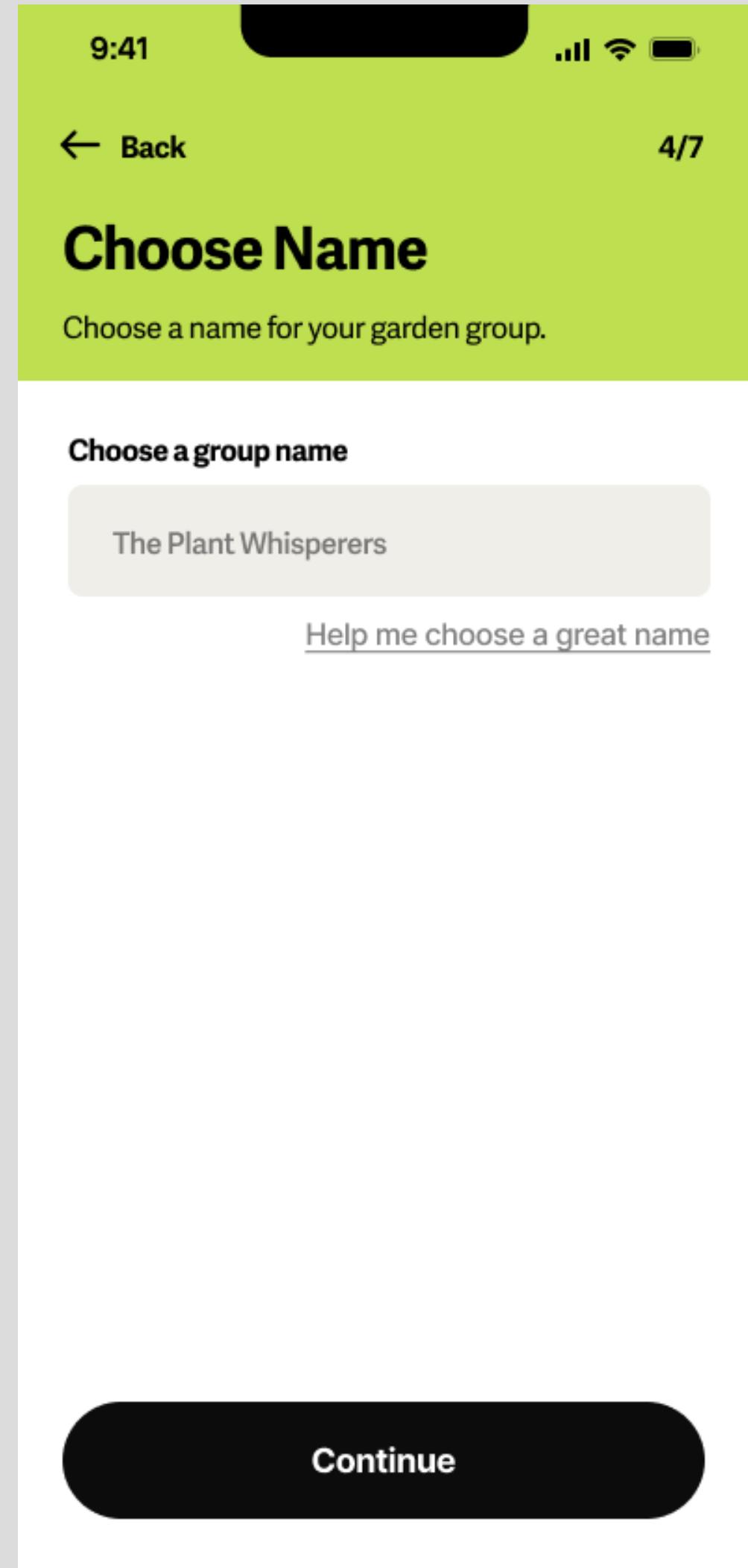
Confirm Password

Continue

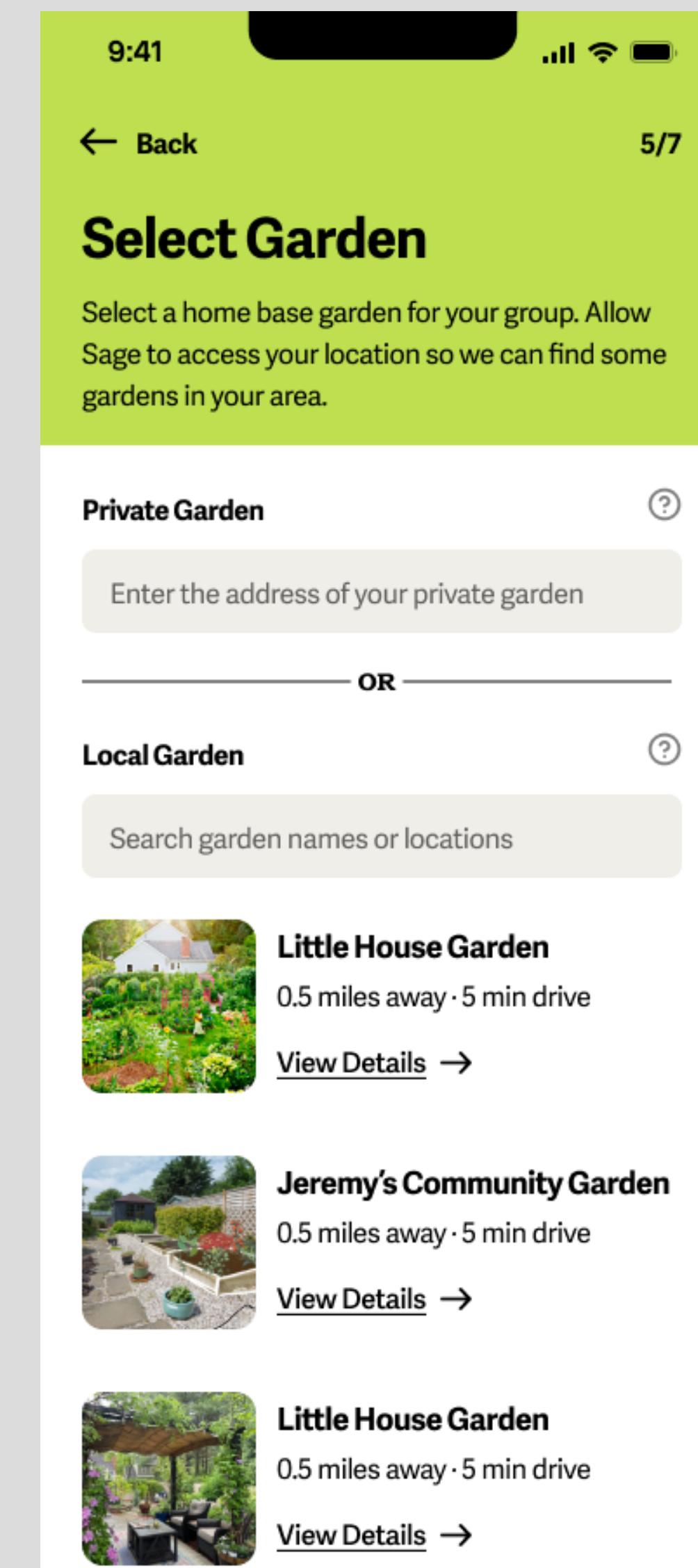
Revisions

Edits to create garden flow for speed, usability and clarity

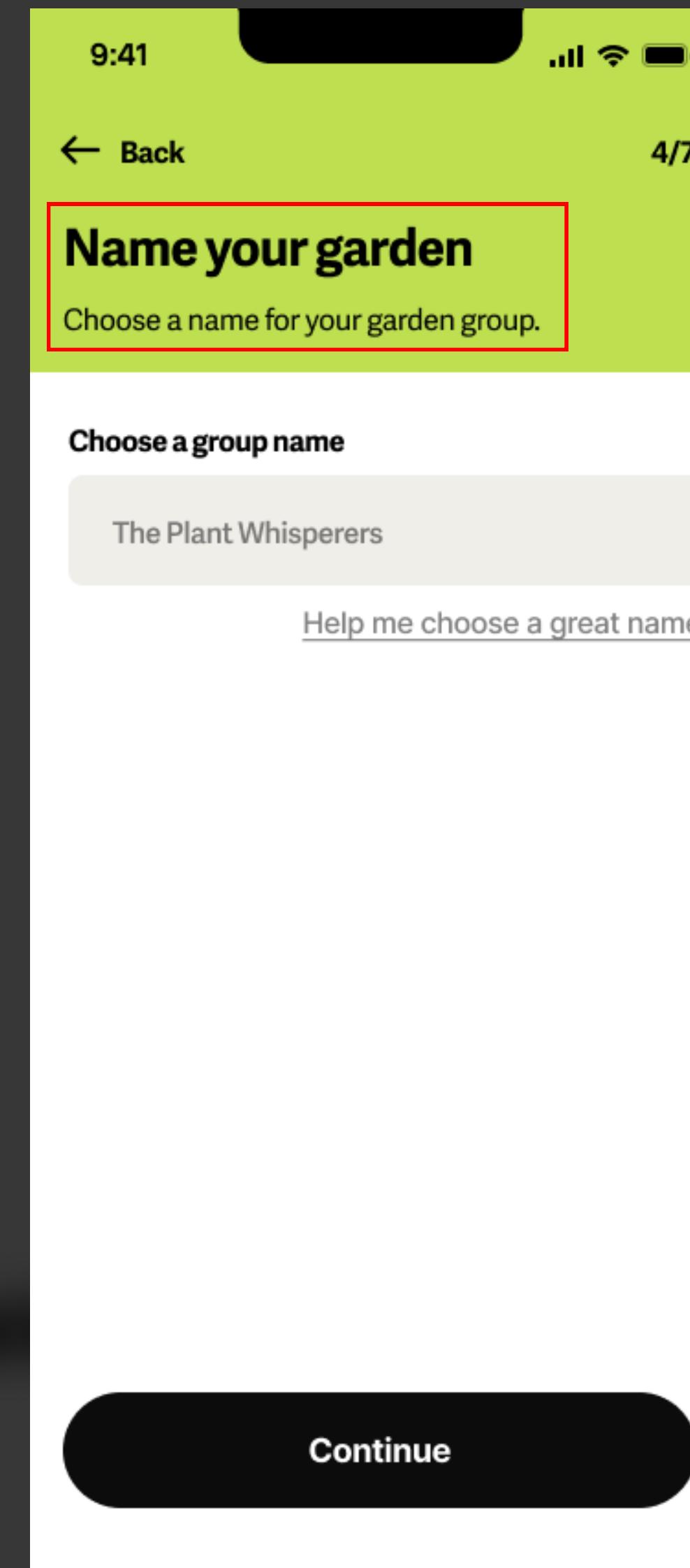
Old



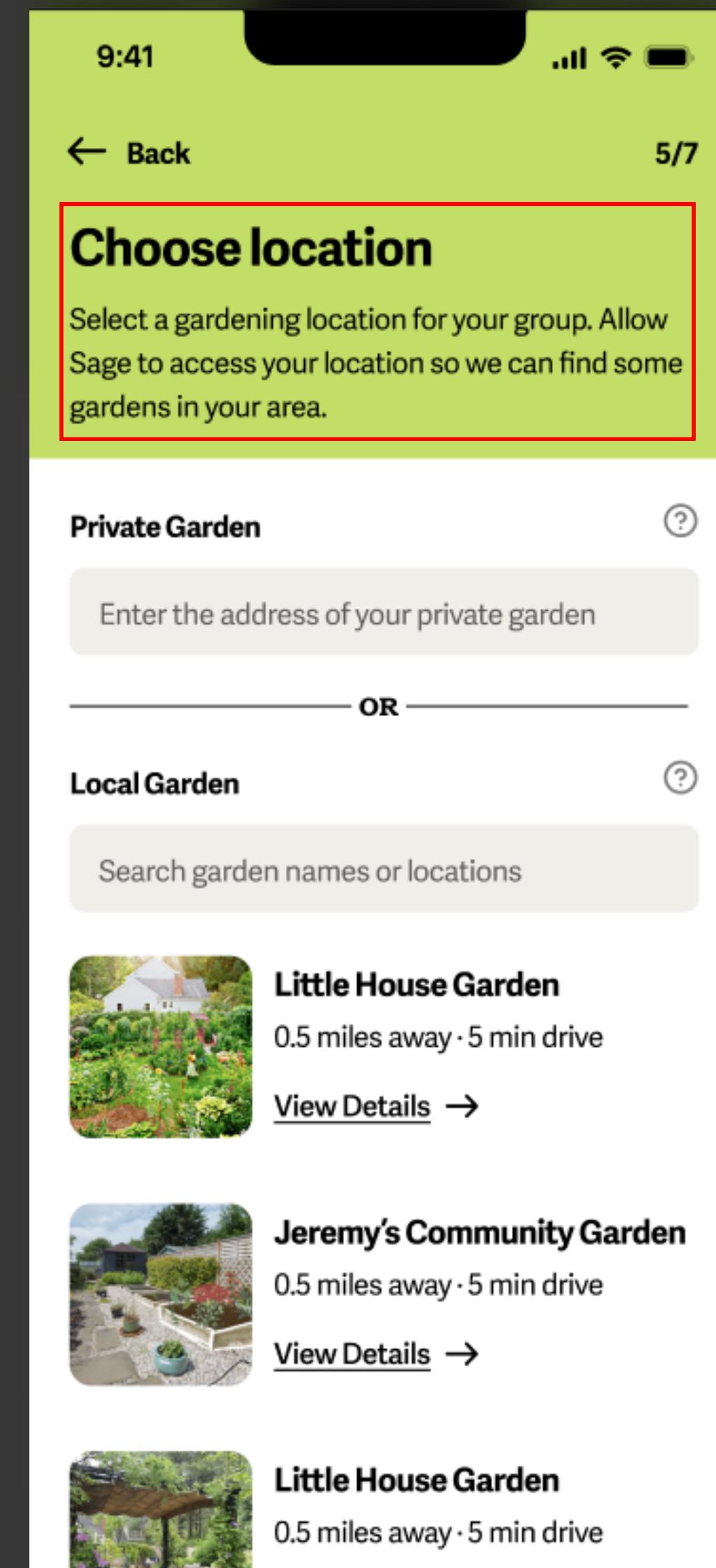
Old



New

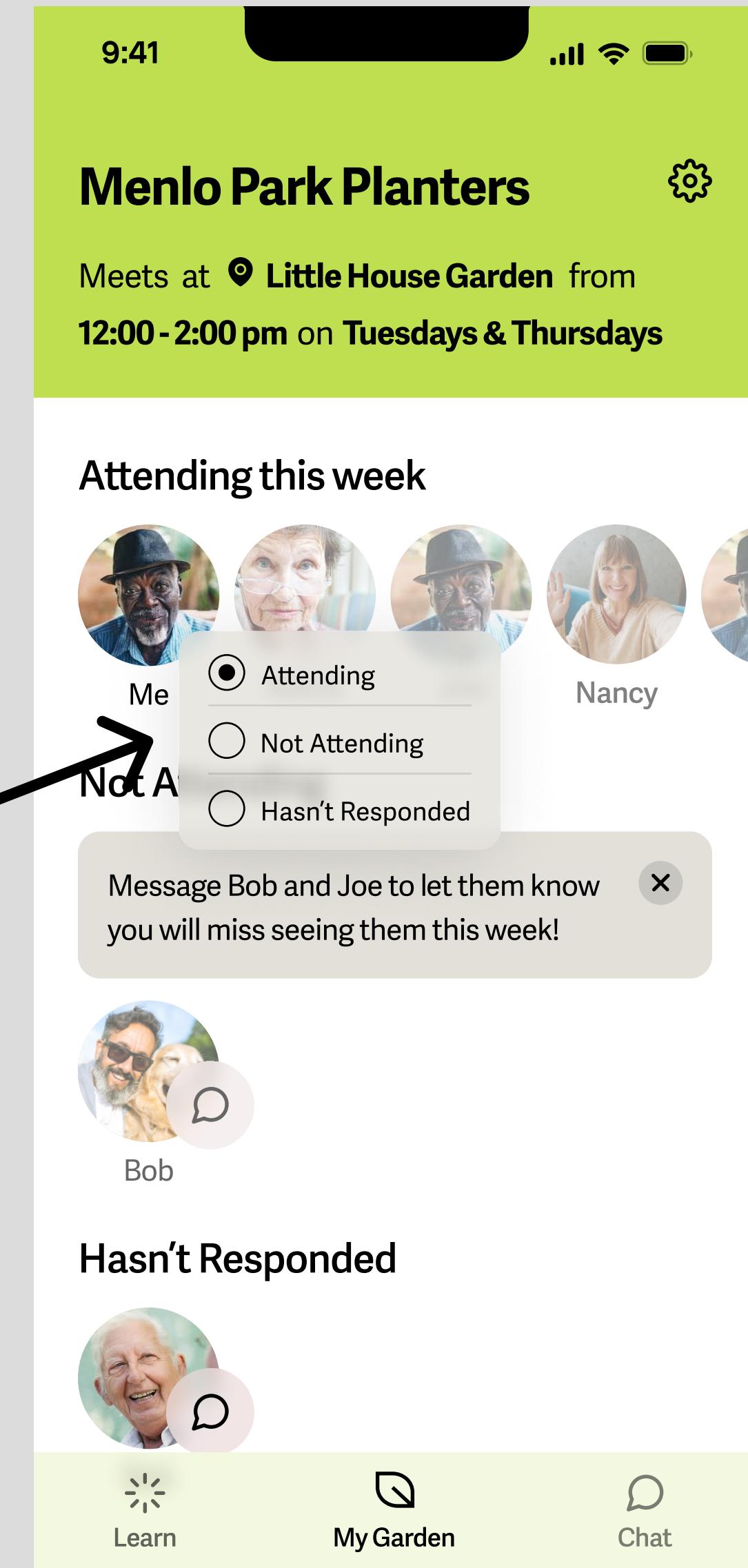


New



Revisions

Ability to change your attendance status



Additional Revisions

Based on feedback from Prof. Landay & Matt

The problems

- 1. While the home screen accomplishes the 3 tasks we chose, it needs to deliver value beyond group formation and showing gardening session logistics**
- 2. We provide little reason to return to the app after noting weekly session cadence**

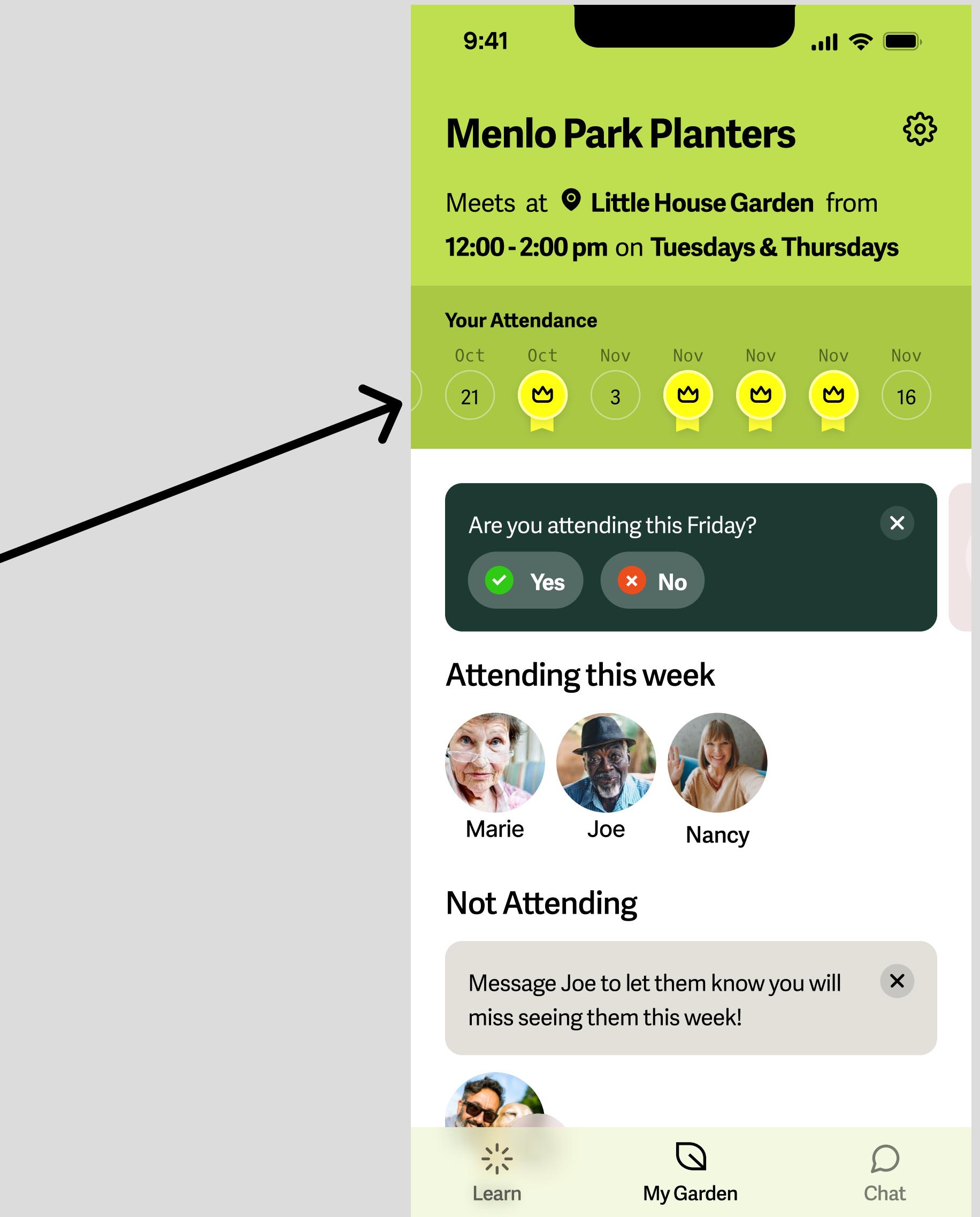
Revisions

ADDITION

Attendance Tracker

RATIONALE

- Incentivizes forming attendance streaks which is directly related to our main goal
- Increases positive feedback for being active and building community



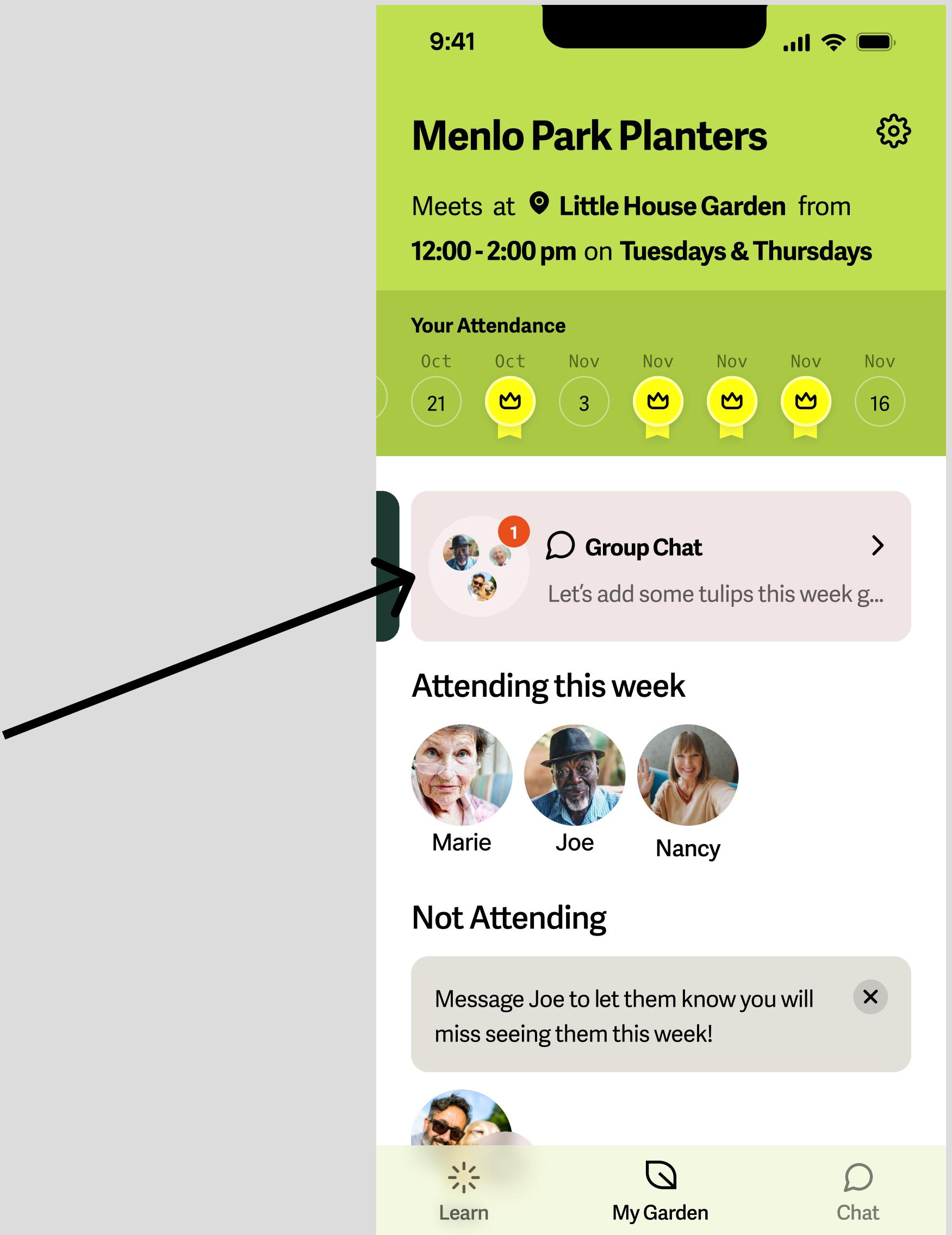
Revisions

ADDITION

Group Chat Banner

RATIONALE

- Encourages engaging with group beyond once per week
- More directly connects users to community building channel
- Promotes garden planning and discussion

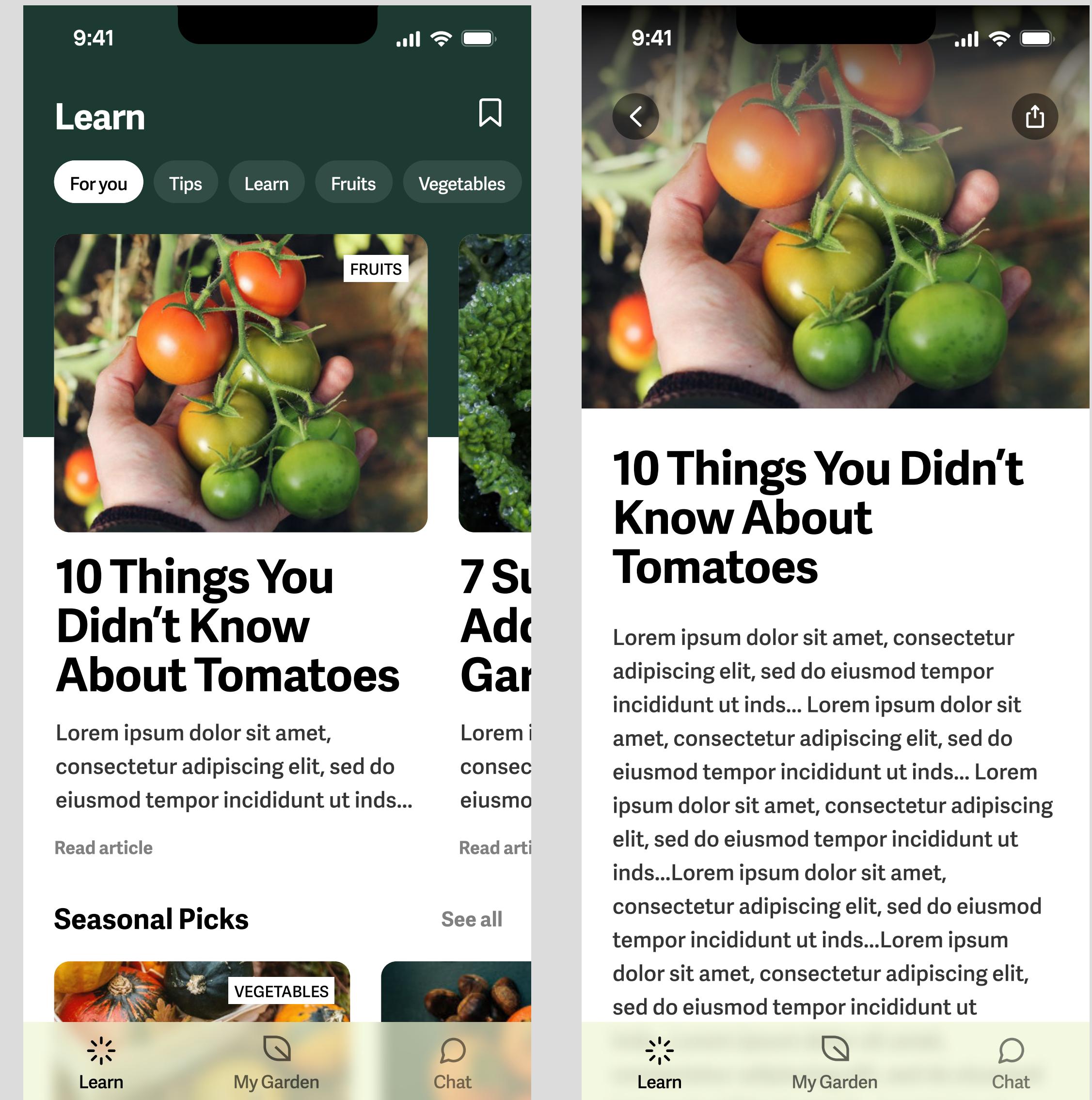


Revisions

ADDITION Learn Page

RATIONALE

- A personalized feed of tips and tricks for user's garden will boost their interest and investment in their garden and thus community
- Users can share these tips with their garden group chat
- Users now have a reason to open the app other than to check on attendance and logistics



Revisions

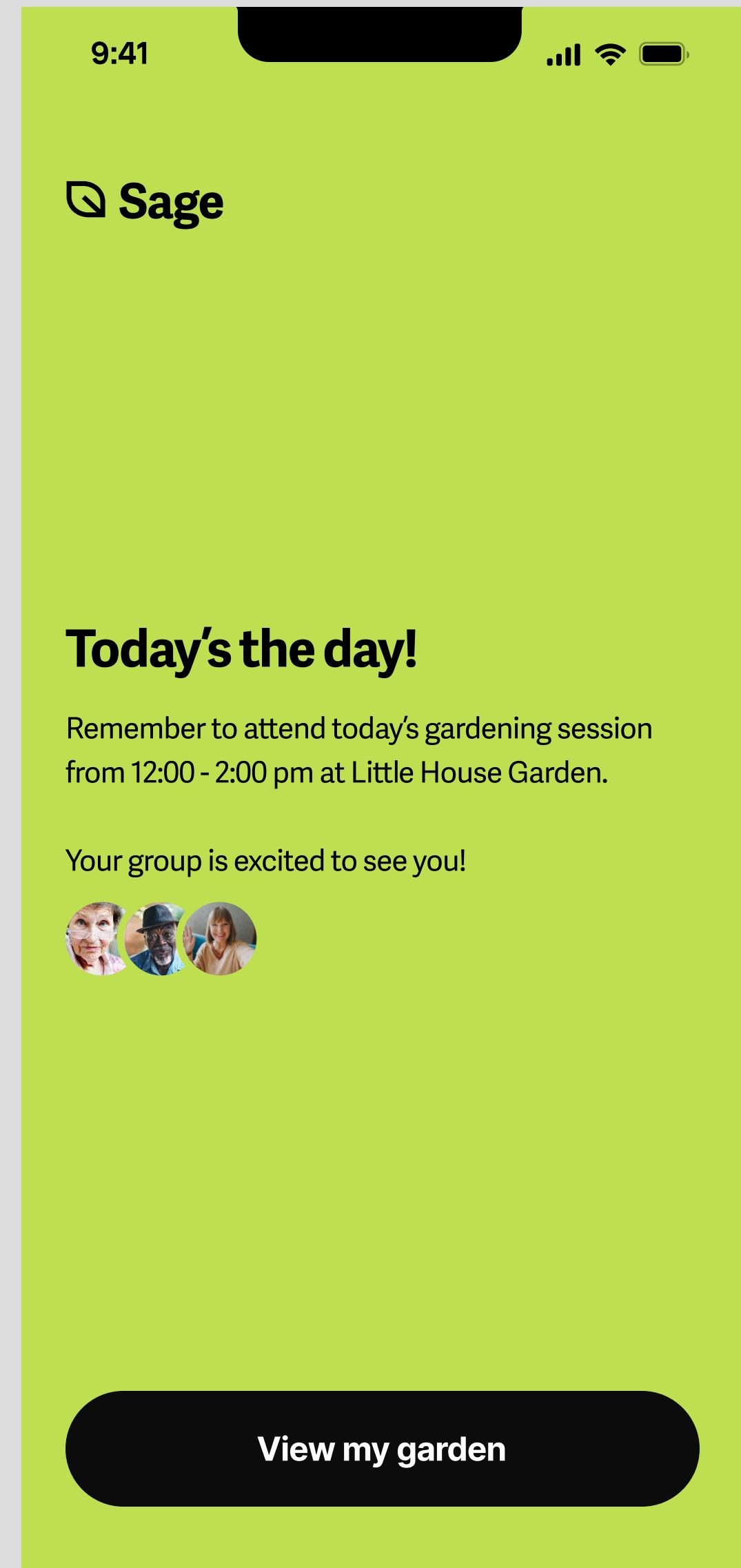
ADDITION

Gardening Day Reminder

RATIONALE

- Easy to implement
- Makes gardening day more exciting
- Likely to boost attendance

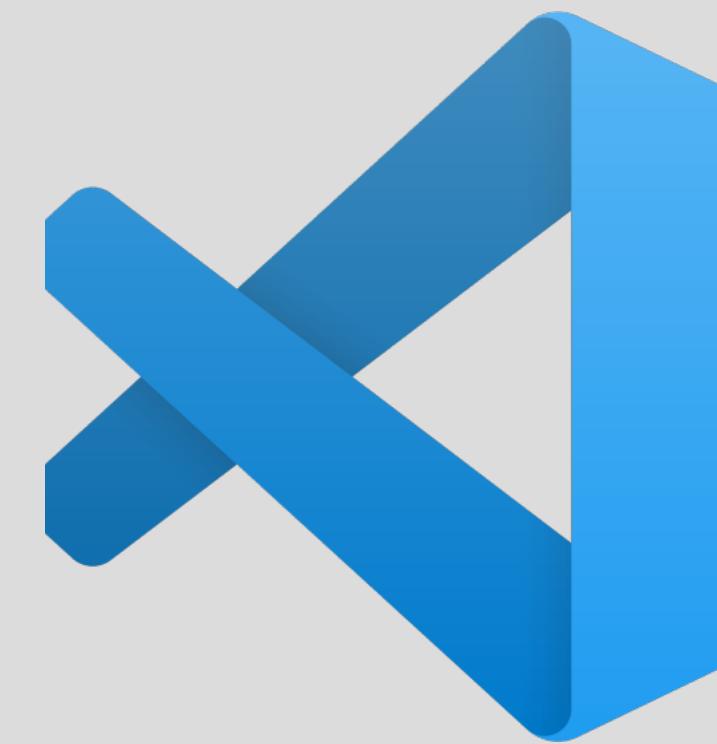
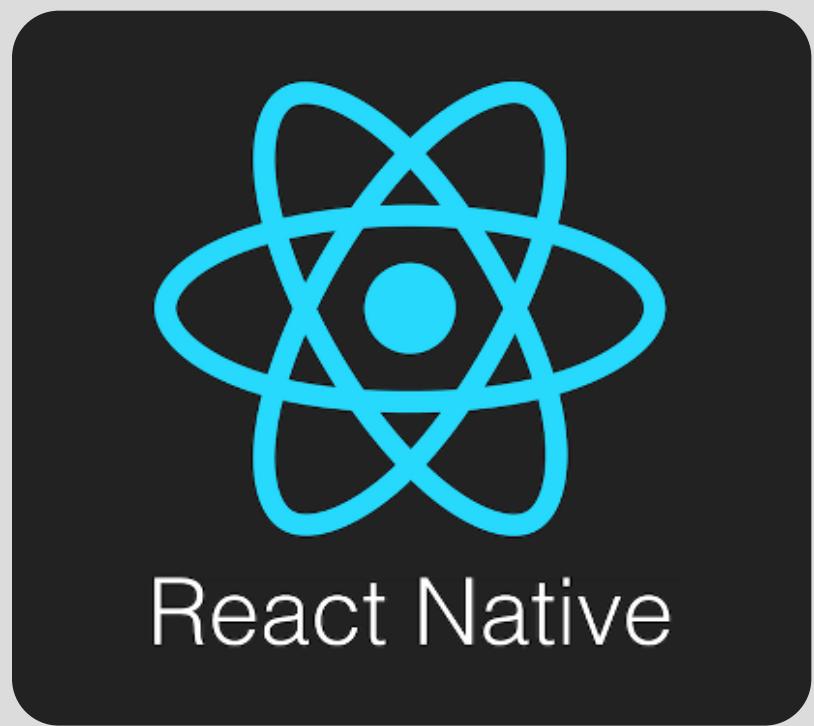
User opens app →



Prototype Implementation Status

Prototype Implementation Status

Frameworks and Tools



And many more...



Prototype Implementation Status

Implemented

- Check in on friend task flow, including...
- Form field validation
- Image selection and upload
- Firebase authentication
- Contact retrieval

Unimplemented

- Chat with all users
- Realtime database for chat
- Store photos on cloud
- Learn page

Prototype Implementation Status

Wizard of Oz

1. Press-able components
only change focus

2. Log-in authentication is hackable

Create Account

Before we get to gardening, we need some basic information about you!

Profile Photo



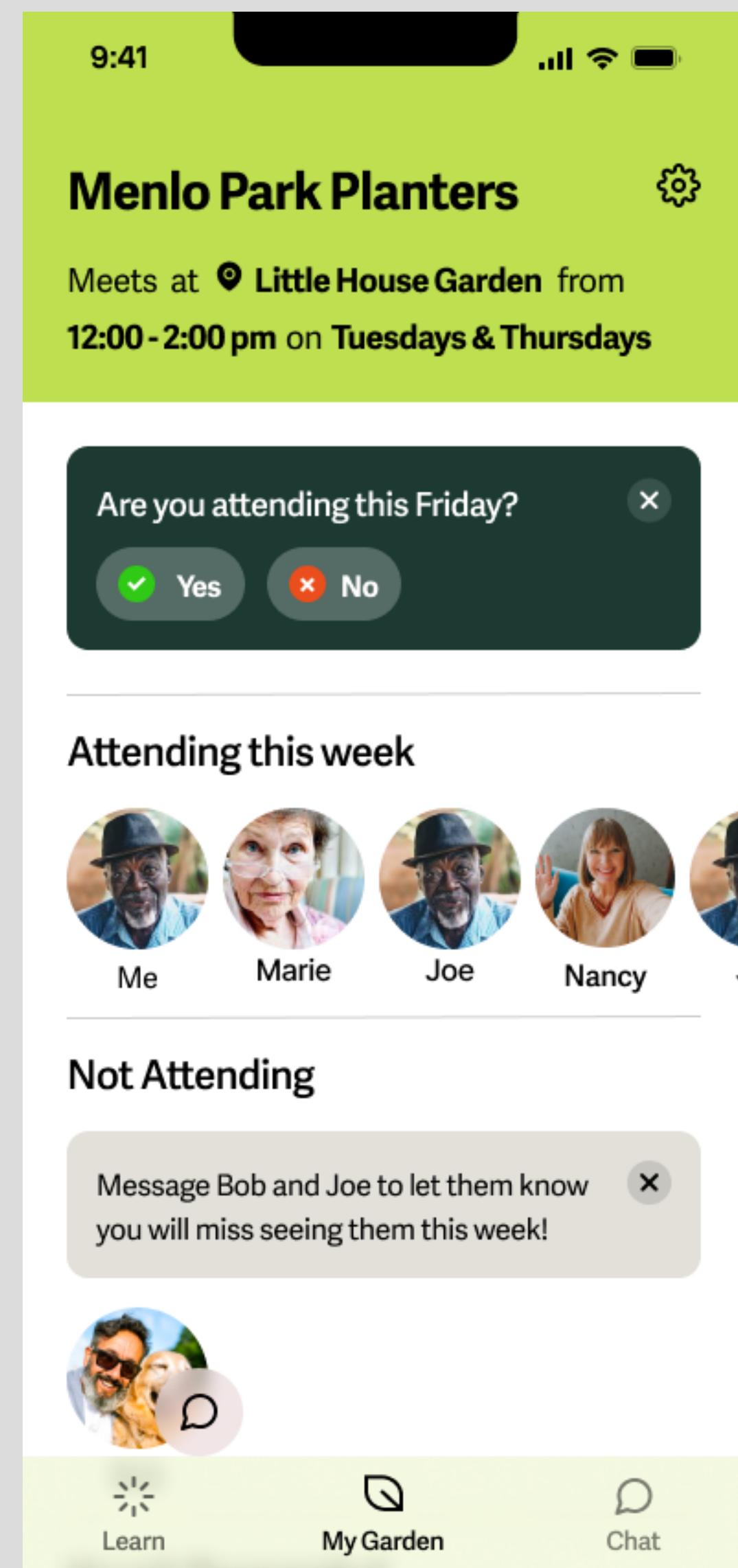
Take Photo

Choose From Library

Prototype Implementation Status

Hard Coded Aspects

- User generated data, such as gardens available, photos, and chats
- Users are not real
- Text does not come from a database



Not real!

Live Demo Time!