Harlem Sky Milestone 5: Testing & Deployment
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8.1 Table of Contents

8.2 Sharing Effort & Accountability

Amanda Chen
- Deployed app to Heroku
- Wrote evaluation of user testing

Carrie Huang
- Conducted 3 user tests (spending, travel, habits)
- Fixed some of the styling

Boonakij Palipatana
- Styling fixes
- Helped with deploy fixes

Martín Eizayaga
- Goals page fix
- User testing

Anna Tedijanto
- Fixed Newsfeed bugs with displaying dates and responding to goal questions

8.3 Evaluating
Spending:
Scenarios
- You've never tracked your spending before, but your parents give you a call and threaten you with the fact that if you don't stop your excessive spending, they will cut you off. You have hundreds of dollars worth of purchases from Amazon, Wegmans, Trillium, 7/11, etc. and want to start budgeting and figuring out where all your money is going. You've never kept a record of your spending and want to centralize purchases made with different credit and debit cards, as well as cash. You now feel the need to keep a budget and hold your spending below it. Set up a way to keep track of your spending.
- You go to the mall to pick up some groceries. You spend $58 at Target getting fruits, snacks, and some drinks. As you are leaving the mall you walk past Bath and Body works and end up buying a candle for $15 for your room. When you get home, you want to take note of how much you spent today and compare it to the day before.
- After your visit to Target and Bath and Body Works, you realize that you'd more specifically like to keep track of how much you're spending on different categories of products. You want to organize your purchases based on the type of purchase (i.e., groceries, toiletries, etc.).

- After a month of keeping track of your purchases and budgets, your parents give you another call to check up with how you've been doing with finances. You'd like to make sure you've been meeting the budget thresholds this past month that you set out to maintain.

User Test 1
- *Scenario 1* - Successfully created a new tracker
  - Didn't give it a title though - directly clicked an icon and saved
- *Scenario 2* - When she tried to create a new record, the "add a new record button" didn't work
  - So created another tracker and tried again
    - But you can't delete an old tracker
  - *Scenario 3* - She didn't add any tags to her record initially
    - But when she saw how it was displayed on the newsfeed she thought it would be better to create tags instead of adding everything to the notes - so she wanted to add tags to the post she just created
    - Clicked on the post and edited the post - no trouble, very smooth and quick
- *Scenario 4* - Clicked on goals page, saw that her goal didn't already exist, immediately added the goal that she wanted - no trouble, very smooth
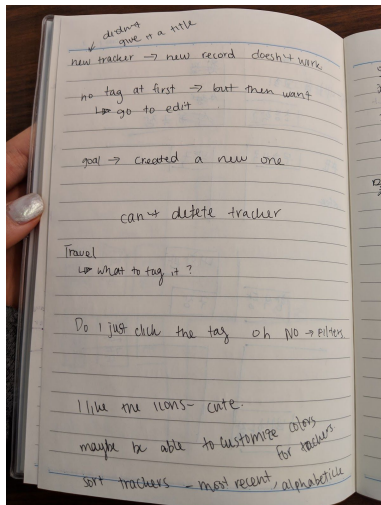
User Test 2
- Goes to the + button immediately, titled it "$pending"
  - Chooses the dollar icon because it "seems cool"
- Added an entry with "Target" (title). Filled out notes, and put one tag called "Target"
- Made a separate entry called, "Bath and Body Works"
- Tagged "dumb purchases" one tag each
- Went to Goals page and put new goal "Spend less on dumb" (didn't ask her to do this scenario, she discovered it herself)
- Set a weekly reminder at 5 PM but it was actually 5 AM (I didn't say anything)
- To organize, probably would edit categories and add tags "groceries" to the Target one
- Keeps old tags and added "home"

- Meeting budget -> never really set a budget but could look back at previous purchases and add them up or use the goals thing but might not be useful for parents
- General feedback:
  - "Felt p good, pretty clear. Icons are cool. Simple but gets the job done."
  - "Goals are confusing because saw the page and see the success rate. It's useful because the reminders but success rate has no clear purpose. Might just make me sad."
  - For tags, was wondering about filter. When you click on tag, it leads to entry. If filter and search icon were more apparent that would be useful.
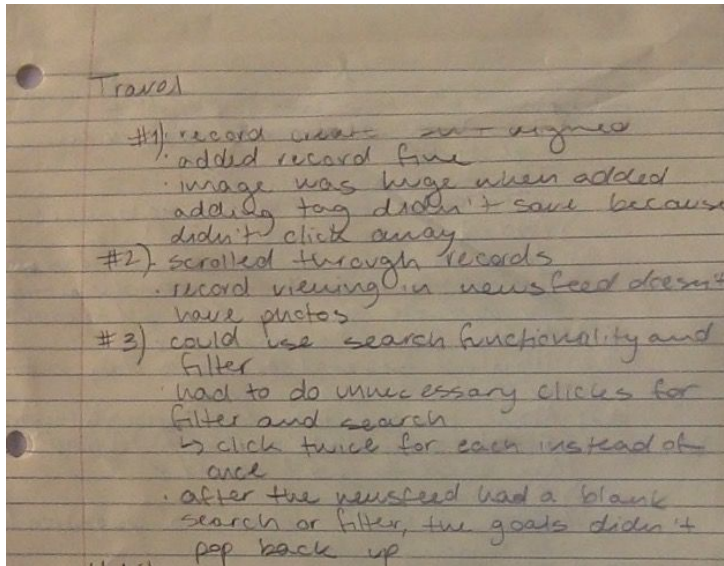

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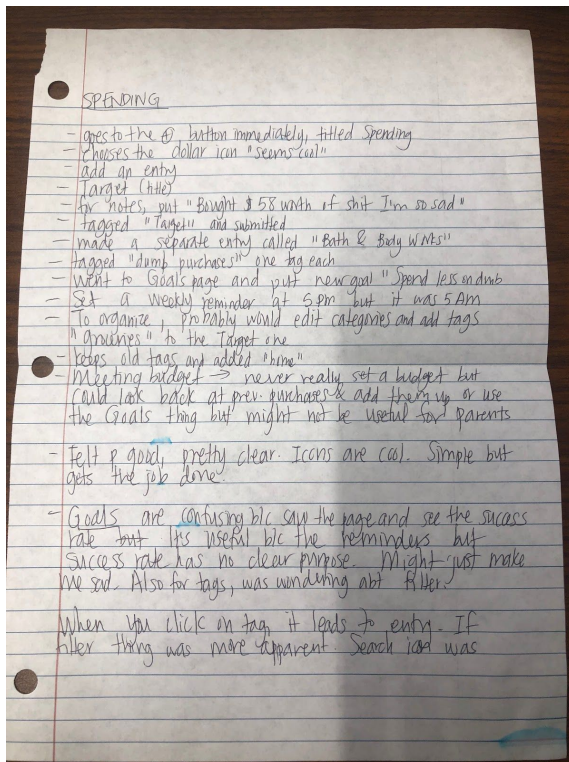
Travel

- You are in Thailand with your friends during your university's winter break. You will be there for about 1.5 weeks and want to try as many new foods and see as many sights as you can. You just came back to your Airbnb after a long day, and are looking back at the pictures you took. The pictures are great, but you really want to do more to remember the great moments you had during the day. Your friends just asked you to come with them to get some awesome Thai street food, but they're giving you a few minutes to quickly finish what you're doing. You feel like you want to keep a highlight of the best parts of the day, and perhaps jot some of your thoughts associated with them.
- You just got back from Thailand after an exciting 1.5 weeks with your friends. As you sit in bed thinking about all the events of the past week, you recall the records you took while you were there. You'd love to check them out and reflect upon all the good times.
- Additional Scenario to test looking for a past entry:
  - You are hanging out with your friends and you guys are talking about Casey's birthday dinner in NYC, but you don't remember what the restaurant was called. You remember that you documented that day in your app and so look for that entry.

User Test 1

- *Scenario 1* - Successfully created a new tracker for her trip to Thailand
  - The styling for trackers with longer text don't look so great
  - Added a new record to her tracker
    - added a lot of notes
      - She entered a lot of things onto new lines, but when displayed all the notes are automatically formatted into one continuous line
    - Added an image - the image was HUGE when displayed
    - Wasn't too sure what to tag it
- *Scenario 2* - clicked through records
- *Scenario 3* - "Do I just click the tags to go to posts with that tag? Oh wait no there's a filter!"
  - Quickly figured out to use the filter at the top of the screen
- General comments/suggestions:
  - I like the icons on the trackers page - it's cute
  - Maybe make the colors of each tracker customizable
    - I don't really like the grey and green - a bit boring - perhaps a background image or something
    - Also be able to move trackers around/change the order of the trackers/sort them - perhaps by relevancy

User Test 2
- *Scenario 1* - Created a tracker for trip to Thailand
  - Managed to create a record with an image
    - Record included data of trip with Thailand image
  - Notes:
    - The inputs in the create record form aren't aligned
    - Image is huge when added to record
    - Adding tag didn't save because the user didn't click away
- *Scenario 2* - Scrolled through and analyzed records correctly
  - Notes:
    - The user didn't have quick access to the photos in newsfeed
- *Scenario 3* - Could use search functionality and filter
  - Notes:
    - Had to do unnecessary clicks for filter and search
      - Click twice for each instead of once, could
- Photo of notes

Travel

#1) record users ___ ___
· added record fine
· image was huge when added
adding tag didn't save because
didn't click away
#2) scrolled through records
· record viewing in newsfeed doesn't
have photos
#3) could use search functionality and
filter
· had to do unnecessary clicks for
filter and search
↳ click twice for each instead of
once
· after the newsfeed had a blank
search or filter, the goals didn't
pop back up

Habits:

Scenarios

- You want to gain 10 pounds of muscle by the end of the semester by going to the gym and eating better. You want to see if you are eating enough calories and which muscle groups you're working out everyday to meet your goal.
- Through juggling all the problem sets, prelims, and Netflix Originals, you've really struggled to get as much sleep as you'd like this semester. You also realize that in the midst of everything you really aren't sure how much sleep you've gotten on a day-to-day basis these past few weeks. You'd really like to improve the amount of sleep you're giving yourself, but first you'd like to record the number of hours you get each night to give yourself a better sense of how much sleep you're getting and whether or not it's trending in a certain direction.
- After realizing that the hours of sleep you're getting a night is trending downwards, you feel the need to set a solid benchmark for the hours of sleep you aim to achieve in the coming weeks.
- Additional Scenario
  - Revision: You've been keeping track of your dreams every day. You recall a moment in a dream from a while back and want to revisit it to remember all the details. You remember that it had something to do with a chef, but can't recall much else. You've been keeping track of dreams for many weeks, so you've compiled quite a few records to have to look through.
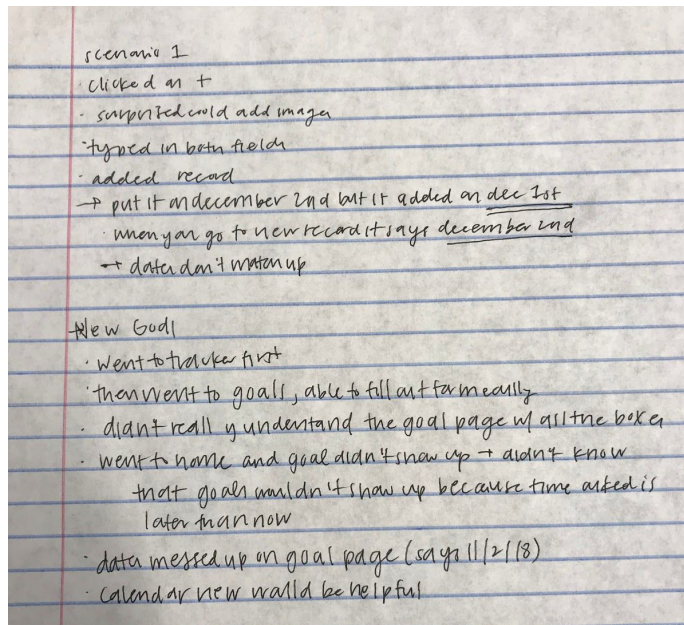
User Test 1:

- Clicked add button → created new trackers (no trouble)
  - Same with adding a new record
- Think it's helpful to keep separate tracker for each type of activity - for instance a separate one for weight and calories even though the ultimate goal is to gain muscle weight
  - But has concern of what if she doesn't know how many calories something is
    - Would be helpful to have a list to refer to
- New record:
  - Title: date - calories
  - Note: Breakfast…. Come back to edit record for lunch and then dinner
    - Would want to be able to edit the same record to add what she had for lunch and then dinner so that she only has one record per day.

- - ■ Therefore she would like it to display the text on a new line if she inputs it as a new line
  - ● Newsfeed: would like it if it displayed the year of the record as well
   - ○ Would be nice to view this as a calendar
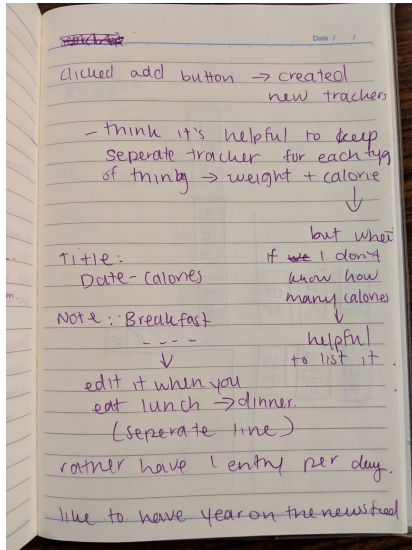
User Test 2
- ● *Scenario 1 - Adding a new record to record sleep*
  - ○ Knew right away to click on '+' button from Newsfeed
  - ○ Surprised could add image
  - ○ Typed in all the correct fields; did not try to add without filling out all fields
  - ○ Added record
  - ○ Newsfeed did not correctly display dates; showed the day before instead for the new record
  - ○ When user clicked on the actual record, it showed the correct date
- ● *Scenario 2 - Adding a new Goal of tracking sleep*
  - ○ Went to tracker first; nav bar was not very clear
  - ○ Went to goal page, able to fill out form easily
  - ○ Didn't really understand the resulting goal page w/ all the boxes that show your goal history
    - ■ Could use more explanation of what that means; also goals appear when they haven't technically been asked yet
  - ○ Went home and goal did not show up
    - ■ User had set "asking time" to be later than current time, so goal did not show up, but maybe this is unclear that's what the time is on the goal form
  - ○ Dates messed up on goal page, all of them are a month behind
  - ○ Calendar view would be helpful

scenario 1
- clicked an +
- surprised could add image
- typed in both fields
- added record
→ put it on december 2nd but it added on dec 1st
  - when you go to new record it says december 2nd
  → dates don't match up

New Goal
- Went to tracker first
- then went to goals, able to fill out form easily
- didn't really understand the goal page w/ all the boxes
- went to home and goal didn't show up → didn't know that goals wouldn't show up because time asked is later than now
- data messed up on goal page (says 11/2/18)
- calendar view would be helpful

User Test 3

- *Scenario 1 - Added a record to record sleep*
  - Successfully got to create records page
  - Didn't add an image
  - Newsfeed showed day before record posted
  - Wanted to be able to put several records a day, like posting night sleep and naps
    - Note: could have a distinction of time between many records a day
- *Scenario 2 - Adding a new goal*
  - Got to goals page
  - User said, "Questions asked was vague"
  - Didn't understand that the boxes could be clicked
- Photo of notes

Habit
#1). Successfully got to create records page
- Didn't add an image
- Newsfeed showed day before record posted
- Wanted to be able to put several records a day like night sleep and naps
#2) Got to goals page
- "Questions asked was vague"
- Didn't understand that boxes could be clicked
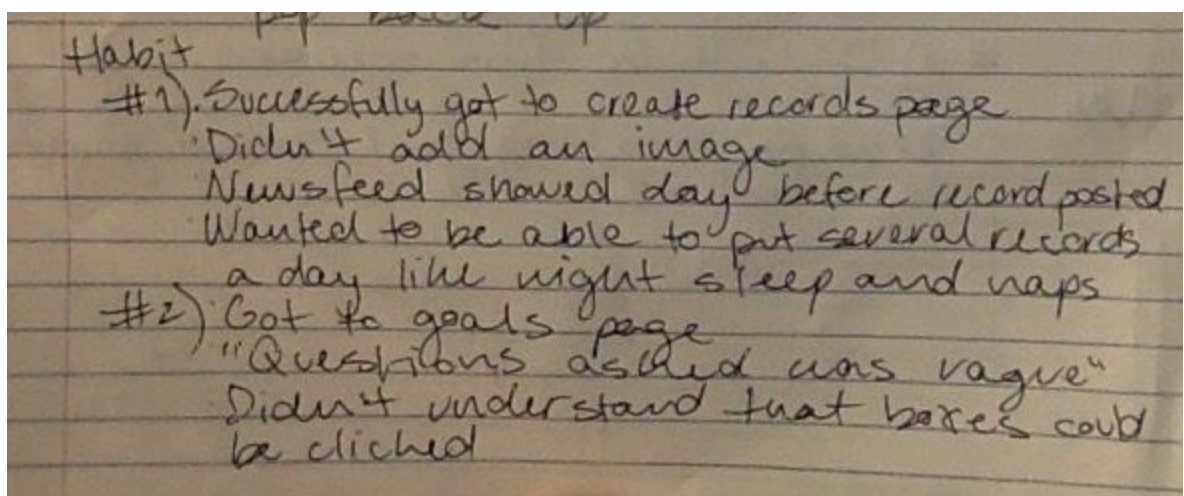
Evaluation Summary & Debriefing

Based on the scenarios that we came up with in our earlier milestones, we presented each one of our users with a different task based on the persona that we presented them: Spending, Travel, or Habits.

For our user tests about Spending, we observed that two of our user tests had no trouble creating trackers, but each approached creating a record in a different way. User 1 chose not to fill in some of the fields such as "Title" and did not see a need to add any tags, but User 2 was quick to fill in all of the provided fields. In both cases, after the users saw how the information was displayed on the Newsfeed, to accomplish the task they decided to edit the record that they had just created. User 2 also commented that the process was "simple", supporting our goal of making new entries quick for our users, who do not want to spend a lot of time entering into the app.

For our user tests about Habits, we observed that a user wanted to be able to log all the entries for a day (such as food intake) in one record rather than having to create a new record for every new meal. During this user testing, we also noticed that the dates that were appearing for the user were a day behind. As a result, in this milestone, we re-implemented the dates such that they were consistent with the user's current input time. A user also noted that having the year in the date display on the record would also be more helpful to them.

For our user tests about Travel, multiple users tried to add an "Image" but pointed out that when viewing the image in the record details, it came out very large on the screen when desktop size but as expected on mobile. We would like to change this in the future such that uploaded images will be scaled and resized appropriately rather than stick to the original image upload.

Going back to our original target audiences, we evaluated whether or not the tasks were able to be completed given our designs. In one scenario with Traveling Tiffany, she wanted to look up a specific event from the past that she had tagged so we implemented the feature to search by event name and also filtering by tag so that users do not have to scroll down potentially hundreds of entries. In the spending scenario, the users were able to input all the of their purchases, tag them each, and then filter by category later.

Given the feedback we received from testing, we came up with the following concrete actions to improve our application. A few users, such as User 2 under Habits, thought it would be more helpful to see a calendar view than the newsfeed. We recognize that the calendar view as something we had mentioned in our brainstorms and came up in designs and from our user tests, it is evident that the calendar view should have been prioritized as it makes more sense in our users' mental models of tracking. Furthermore, several users across Goals, Habits, and Spending had some trouble with setting goals and understanding what they meant, commenting that the "questions were too vague". Given more time to retest and implement, we would like to work on clarifying the Goals page so users immediately know the purpose of that section.

8.4 Deployment
https://harlem-sky.herokuapp.com/