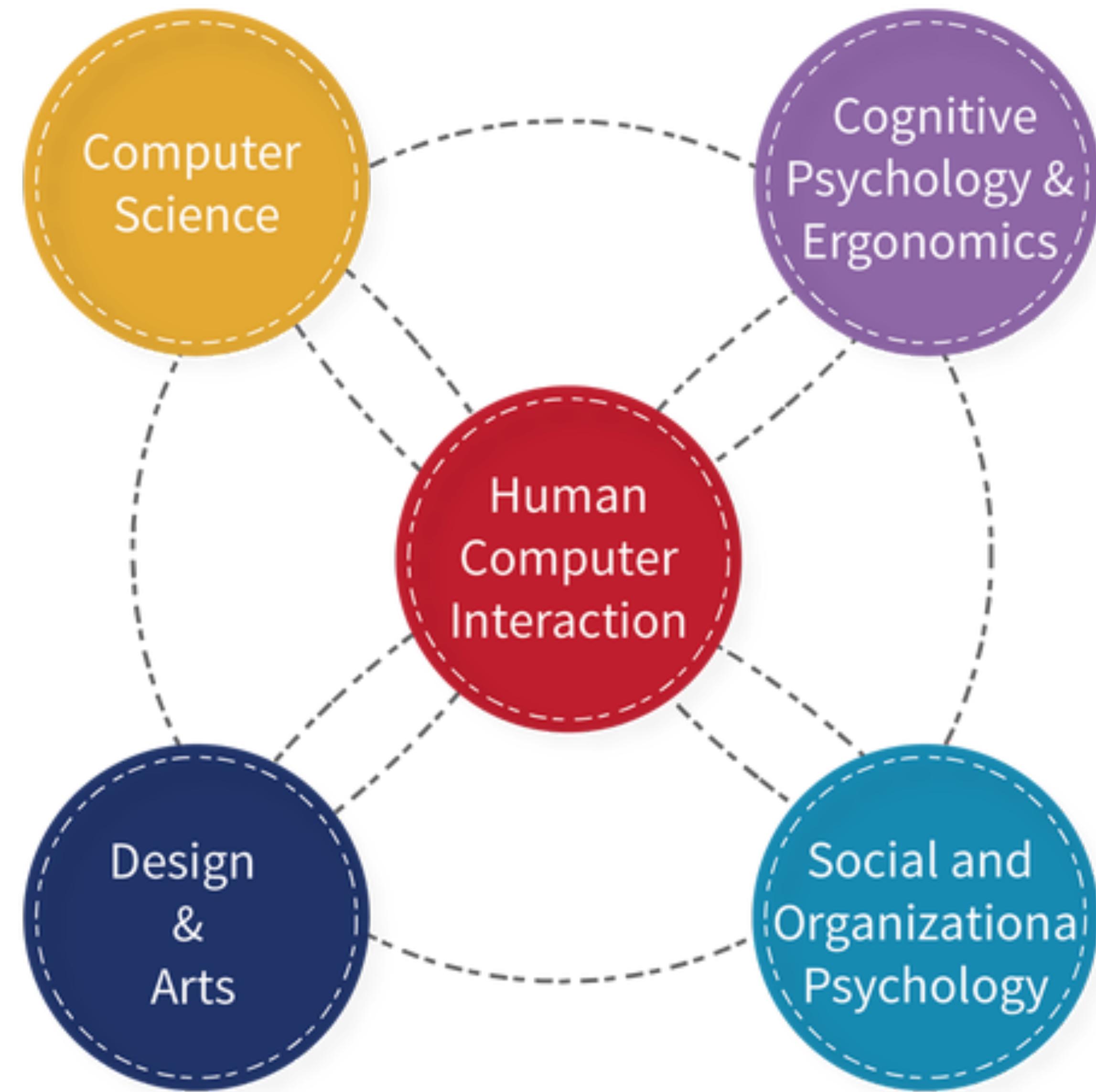


Introduction



What is this course about?

It's about reading, discussing, examining, and practicing techniques that yield a design process.

“[Design is] a plan for arranging elements in such a way as to best accomplish a particular purpose.” – Charles Eames



Core design skills

To **synthesize** a solution from all the relevant constraints

To **frame**, or reframe, the problem and objective

To create and **envision** alternatives

To **select** from those alternatives

To **visualize** and **prototype** the intended solution

Iterative Human-Centered Design

This is a course about process

This is **not** an implementation course!

This is also not a course about “good” interfaces or rules that you should follow in design.

Rapid iteration and exploration is the most important and effective tool for design.

Learning Objectives

Understand what human-computer interaction and interaction design are

Develop skills on using design methods

Learn how to create design artifacts: scenarios, storyboards, prototypes

Think critically about design solutions

Learn how to do user testing

Communicate effective design critiques and defense

Project Overview

The core of this course is a project.

Propose and do an intense end-to-end design.

First step: Getting the Right Design

Second step: Getting the Design Right

Third step: Communicating the design

Project Overview

Talk to people, investigate problems

Sketching and Storyboarding

Low-fidelity Prototyping

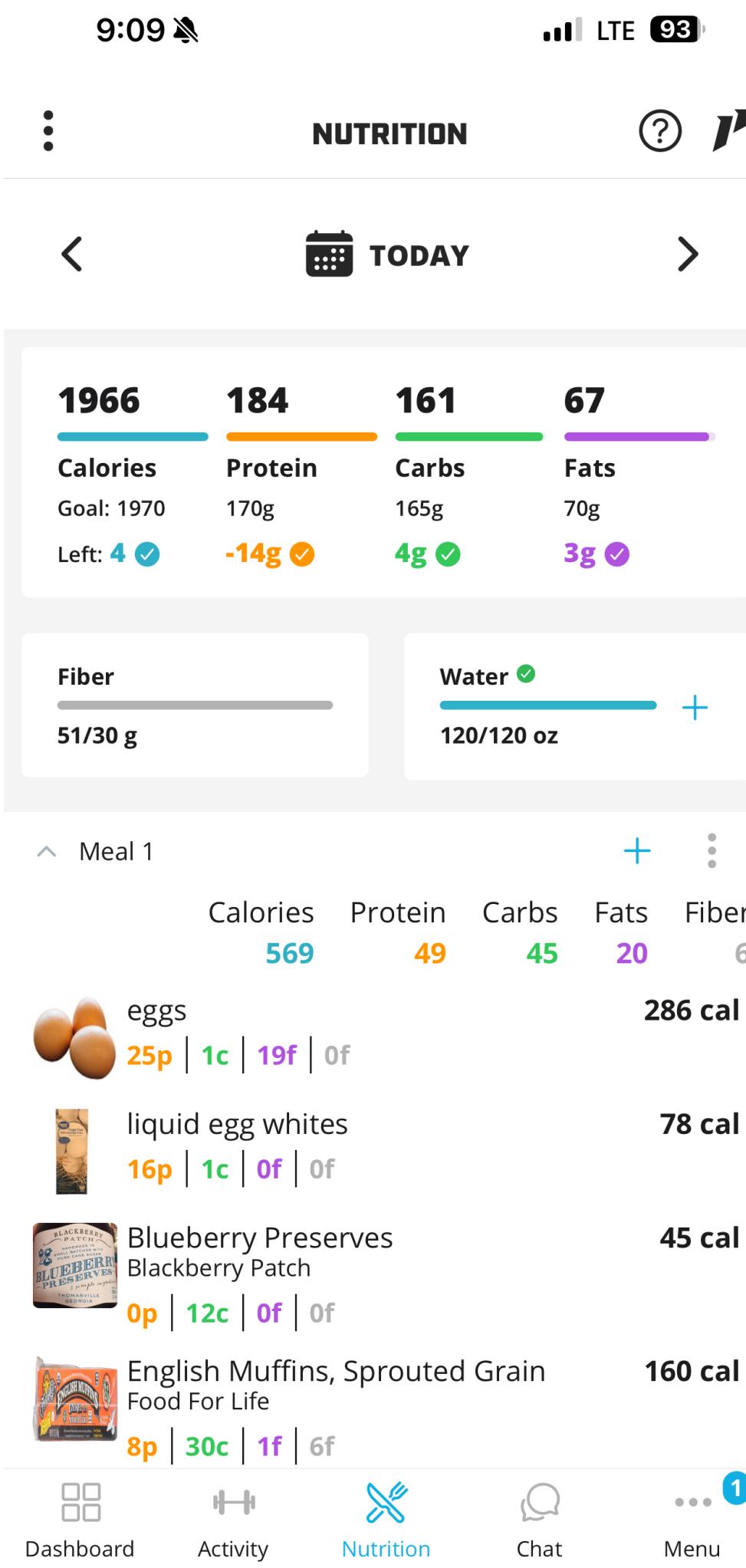
Digital Mockup

Presentation & Communication

Project Theme

**Self-tracking and everyday interaction with
personal data**

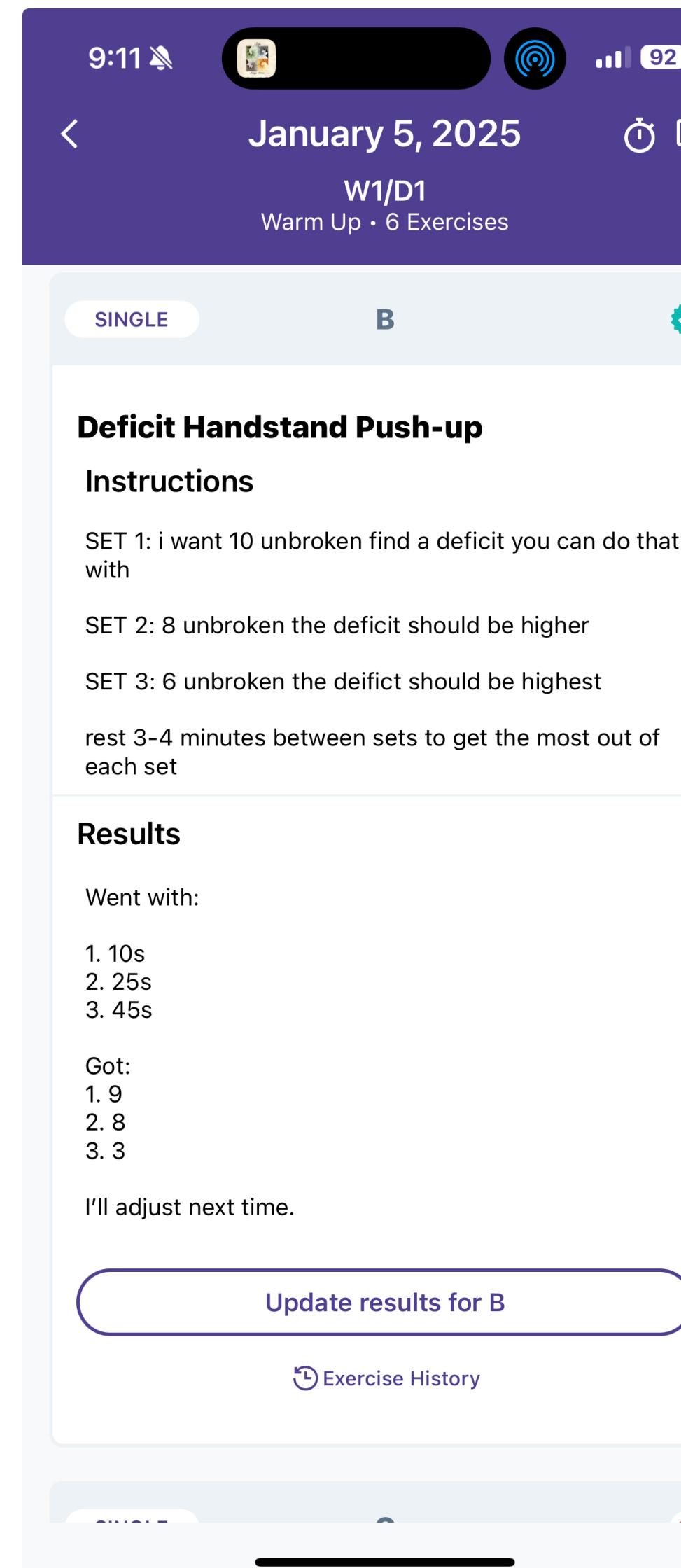
Self-Tracking & Interaction with Personal Data



The MyFitnessPal app interface shows a nutrition summary for the day. At the top, it displays calorie intake (1966), protein (184), carbohydrates (161), and fats (67) against a goal of 1970. Below this, there are sections for Fiber (51/30g) and Water (120/120 oz). The main part of the screen shows a meal plan for 'Meal 1' with the following items:

- eggs: 25p | 1c | 19f | 0f (286 cal)
- liquid egg whites: 16p | 1c | 0f | 0f (78 cal)
- Blueberry Preserves: 0p | 12c | 0f | 0f (45 cal)
- English Muffins, Sprouted Grain: 8p | 30c | 1f | 6f (160 cal)

At the bottom, navigation icons include Dashboard, Activity, Nutrition (highlighted in blue), Chat, and Menu.



The workout session details for January 5, 2025, show a warm-up with 6 exercises. The session is labeled 'W1/D1'. The workout itself is titled 'Deficit Handstand Push-up'.

Instructions:

- SET 1: i want 10 unbroken find a deficit you can do that with
- SET 2: 8 unbroken the deficit should be higher
- SET 3: 6 unbroken the deficit should be highest

rest 3-4 minutes between sets to get the most out of each set

Results:

Went with:

1. 10s
2. 25s
3. 45s

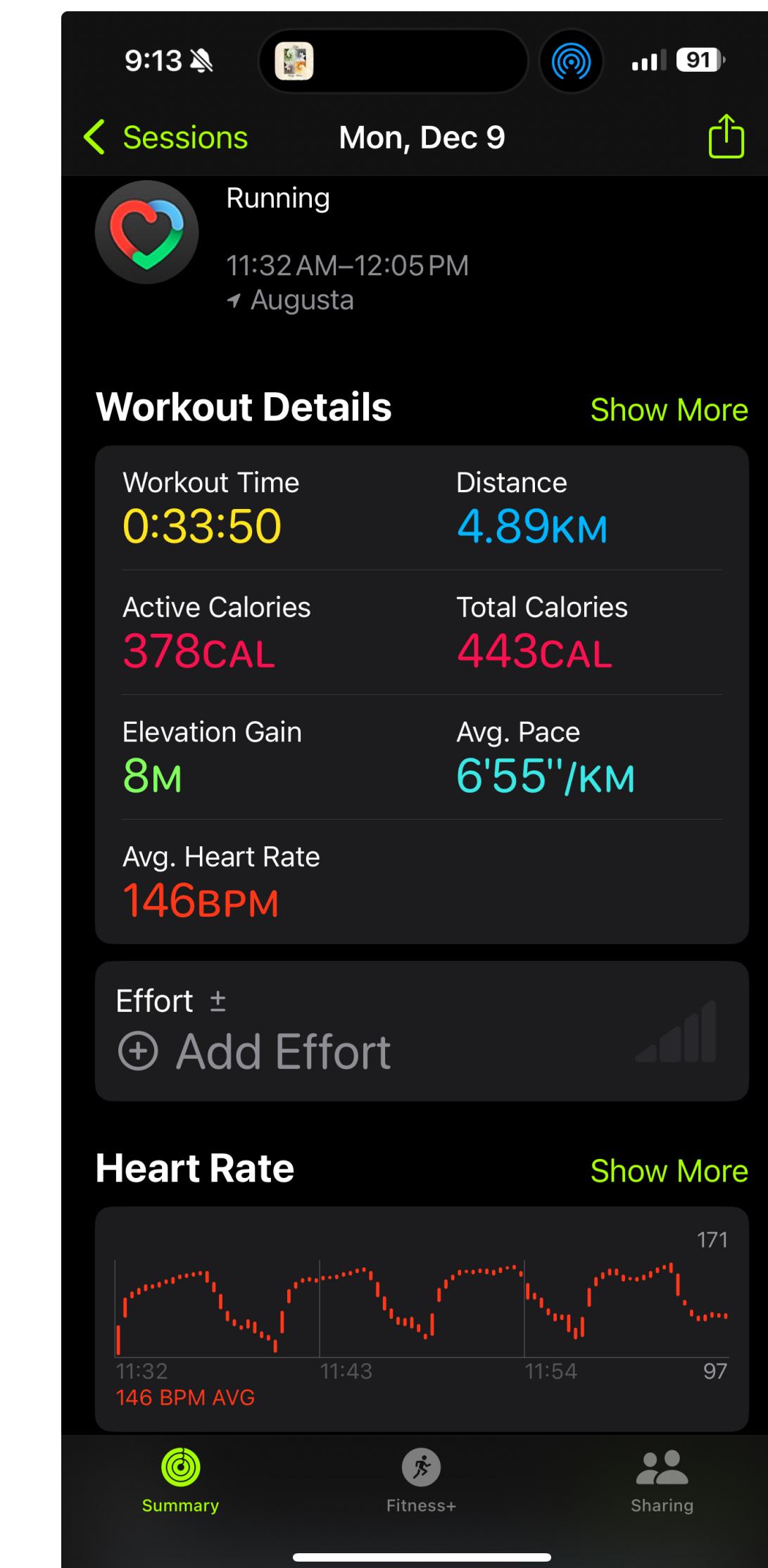
Got:

1. 9
2. 8
3. 3

I'll adjust next time.

Update results for B

Exercise History



The session summary for Monday, Dec 9, shows a running session from 11:32 AM to 12:05 PM in Augusta. The session details are as follows:

Workout Time	Distance
0:33:50	4.89KM
Active Calories	Total Calories
378CAL	443CAL
Elevation Gain	Avg. Pace
8M	6'55"/KM
Avg. Heart Rate	
146BPM	

Effort ±

+ Add Effort

Heart Rate

146 BPM AVG

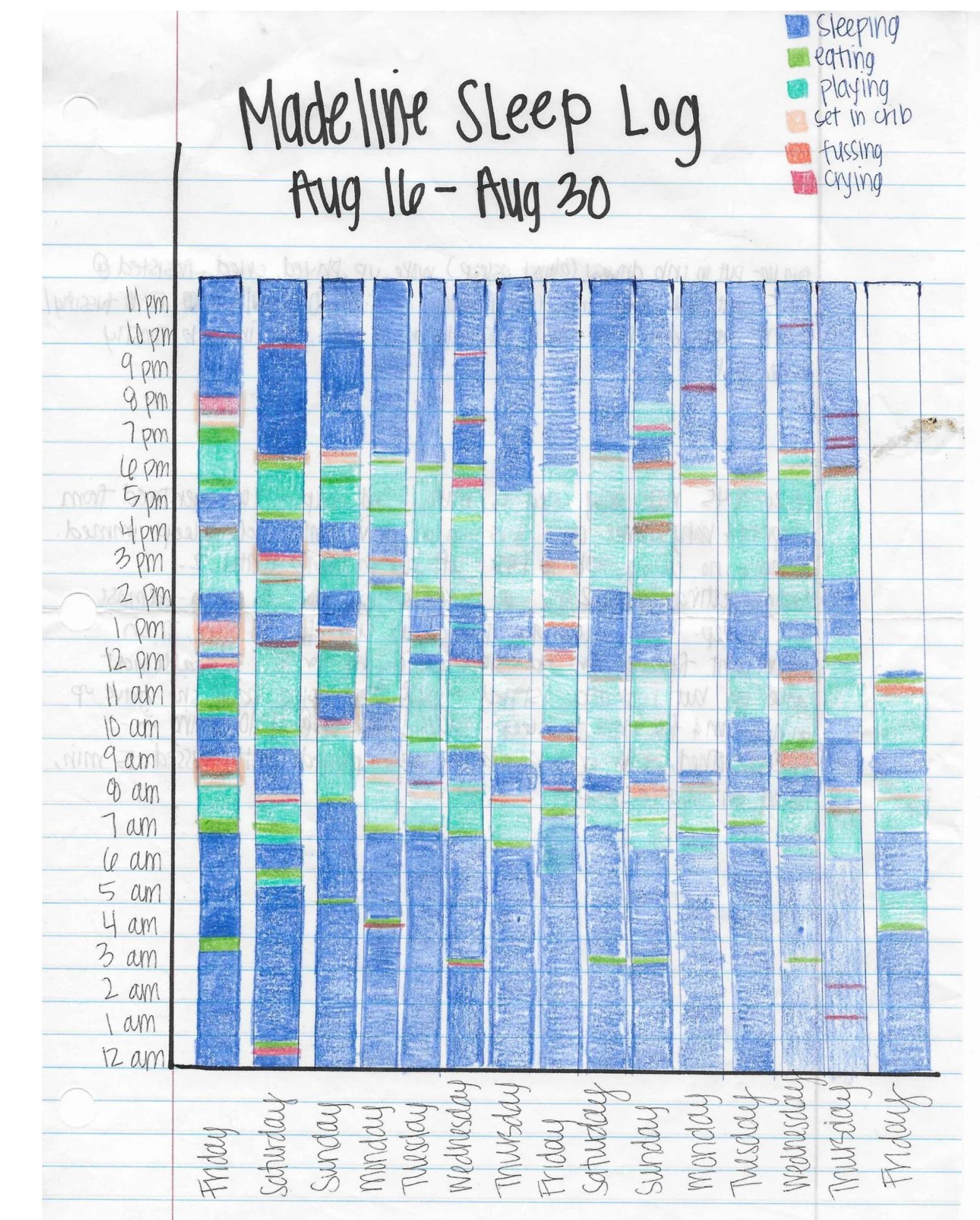
11:32 11:43 11:54 97 171

Summary Fitness+ Sharing

Self-Tracking & Interaction with Personal Data



Self-Tracking & Interaction with Personal Data



Self-Tracking & Interaction with Personal Data

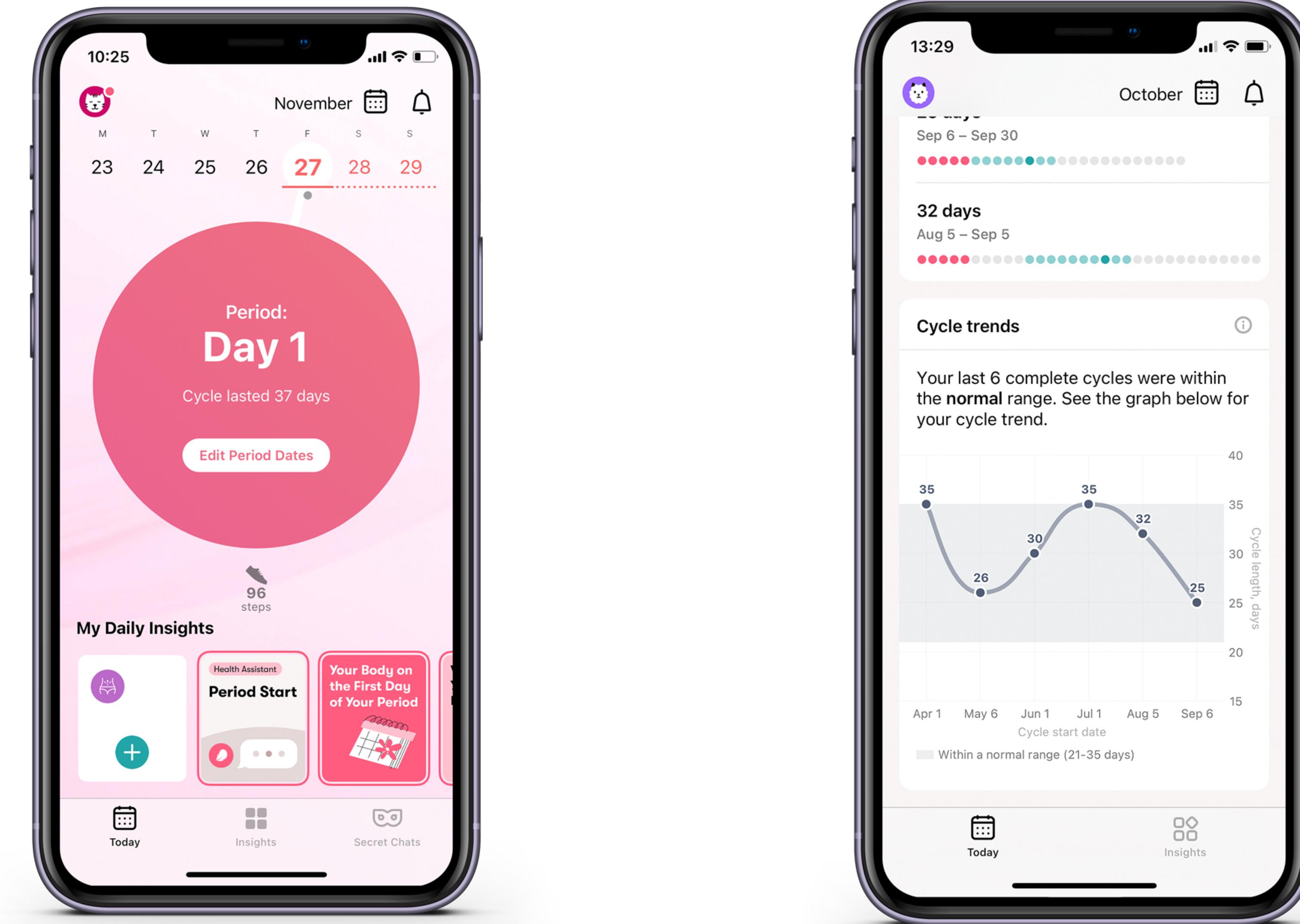
Project Task Planner with Time Tracking

This slide shows planning of three phased project with the help of a Gantt chart which includes weeks, starting date and time required to complete each task.

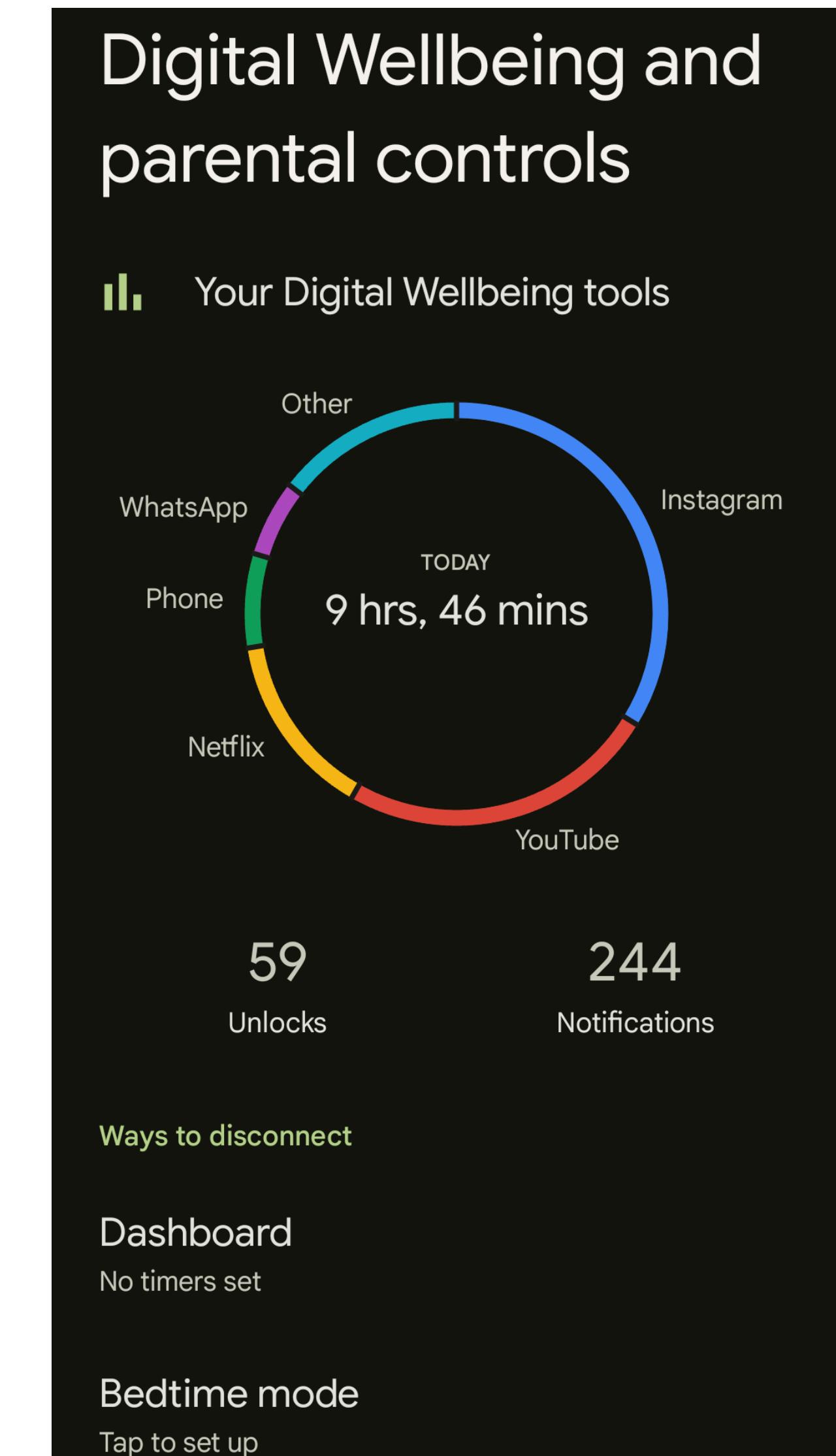
 week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	 Time Required
 Starting	Jan 5	Jan 12	Jan 19	Jan 26	Feb 2	Feb 9	Feb 16	Feb 23	Mar 2	Mar 9	Mar 16	Mar 23	Mar 30	Apr 6	Apr 13	Apr 20	Apr 27	May 4	May 11	May 18	
 Phase One	Quality Assurance Plan																				27 days
	Project Plan																				14 days
	Draft Review																				20 days
	Project Requirements																				26 days
	Capacity Planning																				21 days
 Phase Two	Project Test Plan																				21 days
	Acceptance Test Plan																				27 days
	Final Requirements Specifications																				
 Phase Three	Add Text Here																				
	Add Text Here																				
	Add Text Here																				



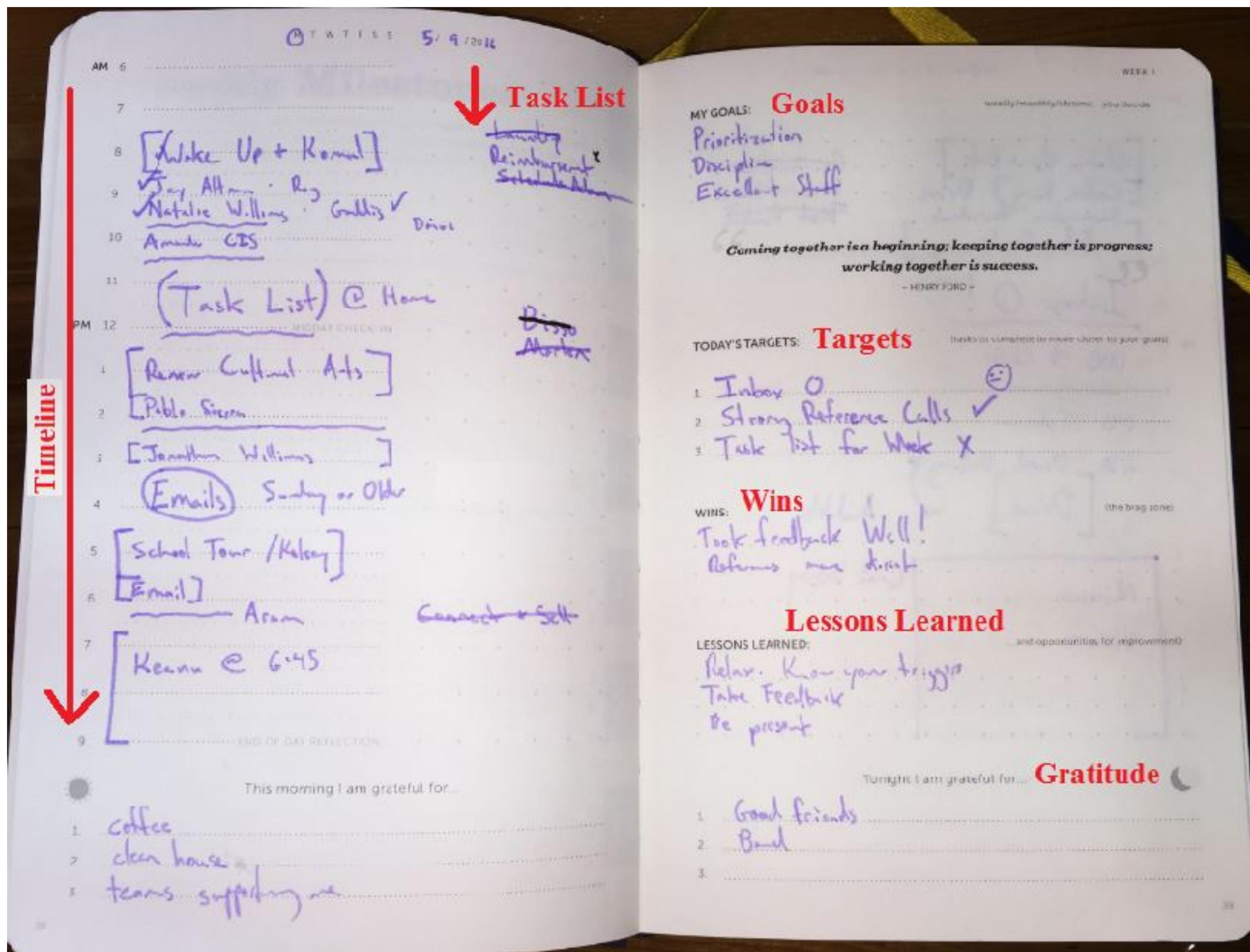
Self-Tracking & Interaction with Personal Data



Self-Tracking & Interaction with Personal Data



Self-Tracking & Interaction with Personal Data



Self-Tracking & Interaction with Personal Data

The screenshot shows a Google Sheets document titled "My Starter Budget". The spreadsheet has a header row with columns labeled A, B, C, and D. Rows 1 through 4 are empty. Row 5 contains the header labels: "Date", "Amount", and "Purchase". Rows 6 through 15 contain transaction data. Row 15 is currently selected and has a blue border around its entire cell range. The transaction data is as follows:

	Date	Amount	Purchase
1			
2			
3	8.1.22	\$5	Starbuck's coffee
4	8.1.22	\$100	Gas
5	8.3.22	\$150	Groceries
6	8.4.22	\$60	Dinner and movie
7	8.5.22	\$200	Kids daycare
8	8.7.22	\$125	Office supplies
9	8.8.22	\$75	Internet
10	8.9.22	\$150	Electric
11	8.10.22	\$300	Insurance
12	8.10.22	\$75	Date night
13	8.10.22	\$50	Kids allowance
14	8.11.22	\$200	Car maintenance
15			

Self-Tracking & Interaction with Personal Data



Characteristics of a good project

You are passionate about it.

The problem is clear: your prototype will fulfill a clear goal

It is novel

It needs to be well scoped

It is not just another app!

Characteristics of a good team



Grading

Design is subjective, and so is this course.

- We can't really run a unit test and grade your design =)
- Wow us with your work, not with complaining!

Grading

Entire project process is design for feedback

- Milestone grades mean you did the milestone
- You must act on feedback (does not mean saying yes!)

Grading

A focus on **doing the work** and **searching for feedback** means final grades are more quality of result

Staying in Touch

- Calendar:** You are responsible for keeping track of the calendar
- Git & Github:** To upload assignments, etc
- Slack:** All course communication, ask questions, get help, etc

Expectations

We are all learners here, let's make this a fruitful experience

Be professional

- Respect above all
- Helpful criticism (we'll learn more about this)
- Peer learning & support
- Show up on time, don't plagiarize, and all that!

Questions?

