Compass App

Compass would like to develop an app – preferably one that builds upon resources and database provided by Canvas – that would serve a variety of functions simultaneously. The functions of the app are described in the diagram provided in Appendix A.

Several Points about Compass

Compass embraces guided mastery framework. A student is not graded on a series of assignments that are merely averaged to create a final grade. Instead, students are evaluated in terms of "levels of mastery" in a variety of target skills (e.g., reading comprehension, organization of writing; note-taking). We seek, over the course of the year, to foster the development of those skills to the highest level possible. A student's (base) grade is defined in terms of their levels of mastery in target areas – not on graded performance averaged over the semester or year. This functions to orient student attention on improving their work (and skills) rather the grade per se.

Students in Compass perform "study hours" that are required to pass the course. If they miss a class, an appointment with their academic coach, homework assignments, or the like, the number of "study hours" increases. If and when unmet study hours reach some threshold, students are told that they must make them up by a certain date (or face failing grades). This provides an incentive to (a) stay current with courses, homework and appointments, and (b) to impose consequences (the need to make up study hours) that are *formative* (students learn the skills necessary when they are in study hours; they learn to perform hours responsibly, etc.) rather than merely punitive.

The App

We seek an app that would:

1. **Simultaneously** perform the following that can be displayed on an **app on cellphones**. The app needs to be integrated and centralized rather than piecemeal and distributed across various forms of software or technology.
2. **Organize data on a variety of measures** (mastery levels on assignments over time, attendance, study hours performed; missed classes, missed appointments, number of study hours needed to pass, etc.) in a centralized location.
3. Allow **faculty to enter selected dat**a on the app and through other means (e.g., if the database were canvas or google, to be able to enter the data on whatever site the data are situated).
4. Allow faculty and **students to enter selected data** (e.g., mastery levels on particular dates for different skills to be monitored over time) through the app.
5. Provide a QR code that will allow students to **"scan in" and "scan out" of study hours**.
6. Provide a QR code that will allows students to **register their attendance** in class.

7. Produce graphs of changes in **mastery levels over time** for each target skill being monitored.
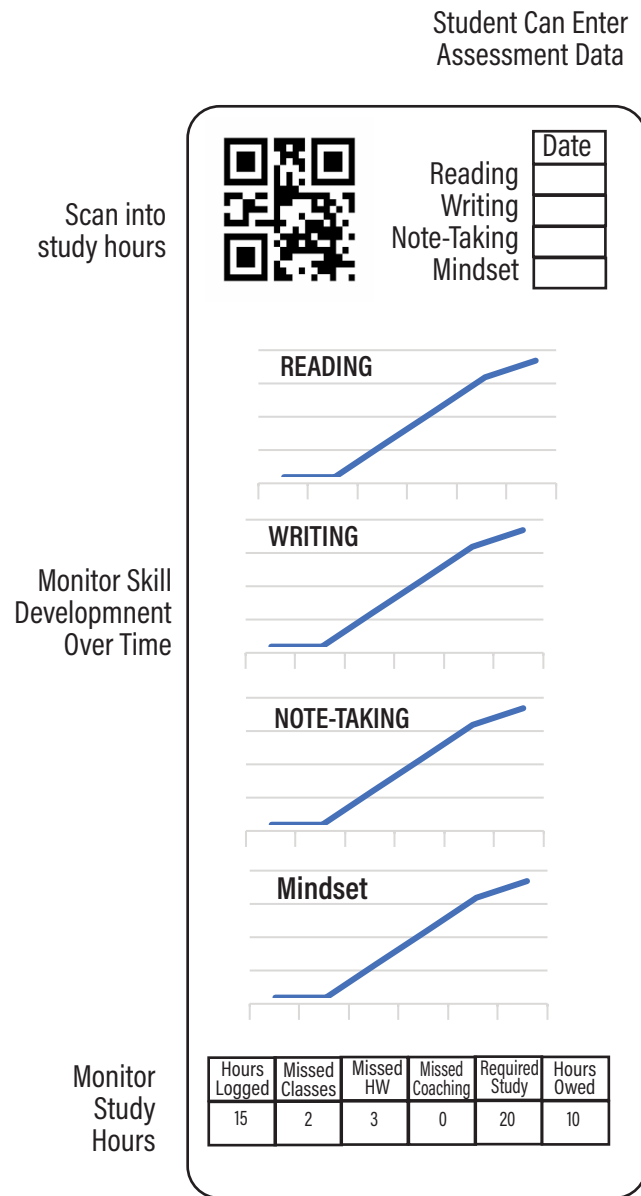
We would like to explore the possibility that such an app can be developed in coordination with Canvas. However, it is essential that the app be simple to use in the way described above. Students should not have to search for the various information and input functions indicated. We need simple and centralized functionality.

Can we meet to discuss this?

Mike

PLAN FOR CENTRALIZED COMPASS APP

1. Student can scan into study hours
2. Student, faculty and staff can enter assessment data (mastery levels at any given point)
3. Faculty and staff enter attendance, homework, etc. data
4. App immediately produces study hour data and number needed
5. App immediately produces graphs of mastery development over time.
6. Other Stuff

DATA INPUT

Student   Faculty   Coach

COMPASS APP

Scan into study hours

Student Can Enter Assessment Data

	Date
Reading	
Writing	
Note-Taking	
Mindset	

READING

WRITING

Monitor Skill Developmnent Over Time

NOTE-TAKING

Mindset

Monitor Study Hours

Hours Logged	Missed Classes	Missed HW	Missed Coaching	Required Study	Hours Owed
15	2	3	0	20	10

COMPASS APP

CENTRALIZED DATA

Study Hours Performed	Missed Classes	Missed Homework	Missed Coaching	Required Hours	Hours Still Needed
15	3	2	0	20	10

	9/1/23	9/2/23	9/3/23	9/4/23	9/5/23	9/6/23
Homework	1	1	0	1	0	1
Reading	0	0	1	2	3	3.5
Writing	0	1	0	1	2	3
Notetaking	0	0	1	1	2	2
Growth Mindset	1	2	2	1	2	3

CENTRALIZED DATA