Final Project Idea Submission

Skill Builder App

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Problem to Solve:

Existing productivity Apps make you feel bad for procrastinating or not completing tasks - which leads to decreased usage and lower productivity.

We want an app that allows us to schedule time to build our skills around our higher priority calendars, and reschedule easily

We want an app that shows us our skill progression.

Currently productivity apps focus on streak based rewards systems, and this tends to create a mentality of fear from losing a streak. Once a user loses a long streak there is a sense of loss and a lack of motivation to start again. We aim to build an app that automatically schedules tasks/activities and tracks skill progression passively based on proven strategies to facilitate learning and skill development. We also want to give users the satisfaction of literally building a tree of skills from scratch.

Our Solution:

A dream of mastery starts with specific goals. Goals which are broken down into steps becomes a plan. The plan is then backed by deliberate effort and individual action.

A productivity app that automatically schedules and tracks skill progression. The app builds the training/learning schedule around the users existing schedules, and optimizes deliberate practice using spacing, interleaving and variation techniques. The focus is to step

away from "streak" based rewards, as this tends to create a mentality of fear from losing a streak. We alleviate this fear by creating an openness to "procrastination within reason", and tracking the users feelings about their progress from day to day. Our philosophy also pulls from the "10,000 hours" theory and the pomodoro technique.

MOBILE - location based notifications (i see you're back at home -> you've set aside a block for guitar, would you like to start?).

SOCIAL - shareable skill trees, check-ins and validate teammates hours.

INTERACTIVE - drag time blocks around the calendar, data visualization with attitudes/productivity over time, and skill tree building.

User Stories:

Title - Traditional User Story - Scenario - Additional Info

- ★ User should be able to add a skillset to work on.
    - ○ **Story -** " As a user, I want to add a skill to work on to my collection of skills because I want to keep track of my skills."
    - ○ **Scenario -** Given I have a skill I want to develop: when I tap the icon to add a skillset, a view appears allowing me to add the skill I want to master. This skill then is added to my collection of skills.
    - ○ **Info -** Icon for add a skill, UIView for new skill, skillset object
    - ○ **Features / APIs -** Collection Views, CoreData, Core Animation
- ★ User should be able to view their skill workload on a calendar.
    - ○ **Story -** "As a user, I should be able to see when I am scheduled to work on my skills because I want to master a skill efficiently, as time management and personal development are important to me."
    - ○ **Scenario -** Given I have skills added to my collection of skills: there is a calendar view that shows my scheduled blocks of time to work on skills"
    - ○ **Info -** custom calendar in a UIView, in it's own view.
    - ○ **Features / APIs -** Core Animation, EventKit
- ★ User's collection of skills should be the priority view
    - ○ **Story -** "As a user, my skills should be the main thing I see when I start up the application."
    - ○ **Scenario -** Given I have skills added to my collection of skills: there are clear icons in the view that show my skills I'm working on with basic detail about each of them"
    - ○ **Info -** collection view with interactive skill icons in main view
    - ○ **Features / APIs -** Collection Views

- ★ When adding a skill, user should be able to give preferences for how/when/where they want to practice/train
  - ○ **Story -** "As a user, I want to set boundaries and schedule my training initially."
  - ○ **Scenario -** Given I have a new skill to master and I press the skill add button for the new skill view to appear: I can name my skill, change the icon, change the color scheme, layout basic hour commitments and how often I want to repeat (daily, weekly, monthly), time preference for when I want to do it, specific actions, tasks, plans, goals, targets, deadlines."
  - ○ **Info -** collection view with interactive skill icons in main view
  - ○ **Features / APIs -** Collection Views
- ★ User should be able to edit a skill
  - ○ **Story -** "As a user, I want to be able to edit a skill, because my plans may change or the skill may evolve over time"
  - ○ **Scenario -** Given I have a skill to master and I press the skill edit button: the adding skill view appears preset with my current skill settings to edit"
- ★ Skills should have properties (action items, plans, goals, targets, deadlines)
  - ○ **Story -** "As a user, I want to be able to express all the details of my skill."
  - ○ **Scenario -** Given I have a deadline: I can name my skill, change the icon, change the color scheme, layout basic hour commitments and how often I want to repeat (daily, weekly, monthly), time preference for when I want to do it, specific actions, tasks, plans, goals and waypoints."
  - ○ **Info -** collection view with interactive skill icons in main view
  - ○ **Features / APIs -** Collection Views
- ★ User's skill schedule should accommodate higher priority calendars.
  - ○ **Story -** "As a user, my skill calendar should be secondary to my main calendar."
  - ○ **Scenario -** Given I have an existing schedule: When my skills training/practice sessions are scheduled, they schedule around my existing schedules - so every time I open up the app my schedules sync, and any overlap is resolved."
  - ○ **Info -** sync/reload outside schedules button.
  - ○ **Features / APIs -** EventKit
- ★ User should be able to change personal settings
  - ○ **Story -** "As a user, I want to be able to customize settings in the application"
  - ○ **Scenario -** Given I am in the main skills view: there is an icon in the view that gives me access to user settings when I press it"
  - ○ **Info -** settings tableview, connected accounts, shared users skill trees, color scheme, notifications, (NSUserDefaults)
  - ○ **Features / APIs -** Table Views, CoreData, UIGraphics, UIActivityViewController

Social - share your skillset, search for skill trees by keyword and sort by total hours put in - you can copy skill trees to fill yourself or pull nodes from existing shared skill trees that suit what you want to work on.

- A Storyboard of the app (in picture of pen & paper or whiteboard diagrams)