

Pencil Me In
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Vision

Problem

It can be difficult to schedule study times to finish assignments on time. Often times we begin assignments with the best intentions then fall behind due to poor scheduling. The current scheduling assistants tend to only focus on building a great schedule on paper, and not a personalized and adaptive schedule that suits an individual's particular study habits.

Solution

Pencil Me In serves as your own personalized scheduler. Not only will Pencil Me In generate a spectacular study schedule based on your assignments and current obligations, but it will personalize it to your own studying needs and abilities. By collecting feedback on your study sessions, Pencil Me In will quickly learn what study conditions suit you best. Whether you are the kind of person who likes to sit down and get all your homework done at once, or would rather work in small increments throughout the week, Pencil Me In will adapt to make the perfect schedule for you.

Calendar		01 June - 05 June				
	01 June	02 June	03 June	04 June	05 June	
09 ⁰⁰			⌚ Mathematical methods 1	⌚ Mathematical methods 1	⌚ Study	
10 ⁰⁰	⌚ Kinematics and dynamics	⌚ Kinematics and dynamics	⌚ Problem sets DEADLINE			
11 ⁰⁰	⌚ Data acquisition and analysis	⌚ Study	⌚ Study	⌚ Study	⌚ Kinematics and dynamics workshop	
12 ⁰⁰	⌚ Study			⌚ Mathematical methods 1 workshop	⌚ Frontiers of knowledge in modern	
13 ⁰⁰						
14 ⁰⁰	⌚ Frontiers of knowledge in modern physics	⌚ Creative styling seminar	⌚ Study	⌚ Study	⌚ Study	
15 ⁰⁰						
16 ⁰⁰		⌚ Data acquisition and analysis workshop				
17 ⁰⁰						
18 ⁰⁰			⌚ Study		⌚ Study	
19 ⁰⁰	⌚ Study					
20 ⁰⁰		⌚ Study				
21 ⁰⁰						
22 ⁰⁰						

Software Architecture

Features

Our main feature automatically schedules optimal study times for students. Our app will initially schedule studying during free times to study. The app will learn and adapt to the user's study habits and gather data on what study times are most effective. With this data, the student's schedule will automatically update their Google Calendar.

The student will rate their study experience and we will compare that to the assignment grade they got to rate how effective their study time truly was.

Our system will notify students when upcoming assignments are due. We will warn students if they run out of time to complete the assignment and let them choose what they are willing to do (such as skipping lecture, cancelling a lunch date, or taking a late day).

Possible Extra Features

Course instructors will have special access to upload assignments and grades for their students.

We can help students find study groups and locations to study.

Technologies

Google Calendar API - Interface with Google Calendar to store schedule information and allow user to view their schedule from any Google Calendar endpoint.

Android Studio (sdk) - Android app will serve as the primary endpoint for the user. Allowing them to view/add/remove assignments as well as reschedule study times.

MySQL - Backend data storage for account and assignment information.

Challenges and Risks

Security risks for storing user data.

Finding appropriate parameters to learn optimal study behaviour.