

PRODUCTIVITEAMS

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OVERVIEW

- **App Name:** ProductiviTeams
- **App Description:** This app is geared towards helping students study better and avoid procrastination. It utilizes community collaboration and various study methods to help students.
- **Track:** Youth Team
- **Category:** Education



THEME

Procrastination, or putting off work, is a problem that affects **80%** of college students, and most people find themselves procrastinating from time to time. This is a serious problem, as pushing back work to do at a later time will only cause more stress as the amount of work piles up. Procrastination can also affect the quality of work, thus leading to lower grades.

Additionally, procrastination isn't the sole issue that might be preventing students from reaching their maximum academic potential. There are several research-proven study habits that can further assist students in improving their grades.

To approach this issue, we decided to make an app that allows users to set their status on their work, contact each other to work together, includes a quiz that tells the user what study method best suits them, and allows the user to try out the study methods.



STUDY METHODS

FEYNMAN TECHNIQUE

What is it: A technique that revolves around simplifying the material that you're studying so it can be understood by a young child. Continuously simplify and refine concepts until you're able to describe them without issue.

What is it best for: Complex concepts

Why do we recommend it: A form of active recall. It helps students easily familiarize themselves with the content & improves teaching skills.

LEITNER SYSTEM

What is it: A flashcard-based method of studying. Flashcards are sorted into 3 groups of increasing understanding, and gradually move to the last group as you familiarize yourself with the content.

What is it best for: Extensive amounts of material, vocabulary/terms

Why do we recommend it: A form of active recall. It's scientifically proven that studying the same things multiple times increases your ability to remember them.



STUDY METHODS

POMODORO METHOD

What is it: A technique that integrates alternating study breaks into the student's study schedule.

What is it best for: Users with short attention spans, large amounts of material to tackle

Why do we recommend it: This method takes advantage of scientifically proven information regarding the attention span of humans and maximizes their productivity

PRACTICE TESTS/QUIZZES

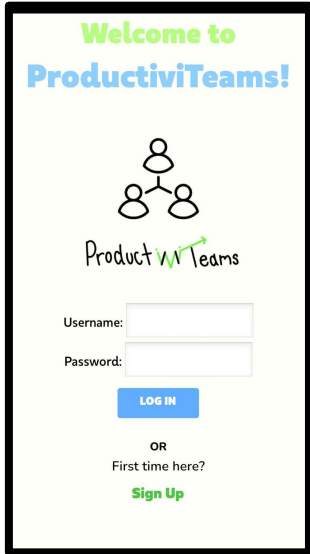
What is it: AI-generated timed practice tests. Takes the topic you're studying and creates questions based on the topic, open to both test yourself on and proofread to discover any possible inaccuracies.

What is it best for: Diverse types of content to study, those studying for any timed examination

Why do we recommend it: Another form of active recall. Giving yourself a test of content that you may end up being tested on is a great method of preparation

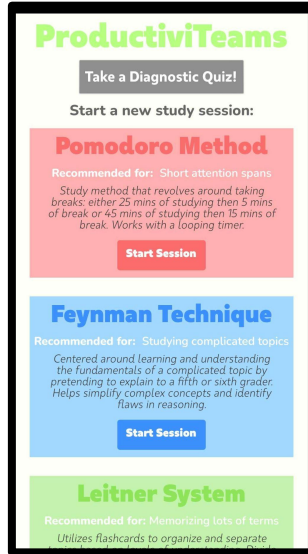


INSTRUCTIONS



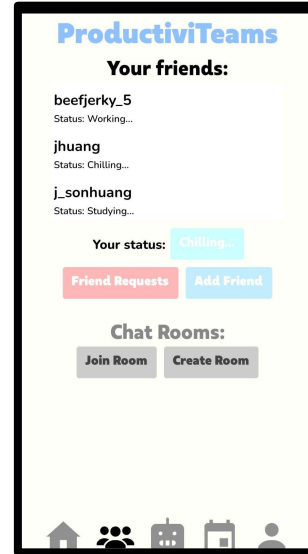
Login Page

Log in or create a new account



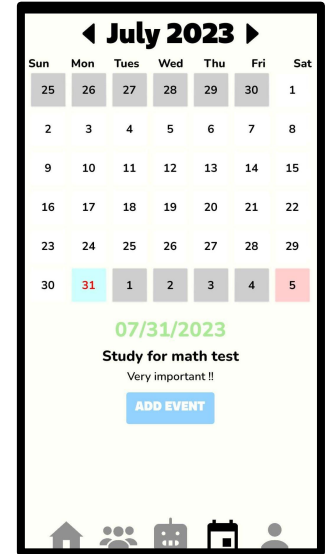
Home Page

Take a diagnostic quiz & choose study methods



Profile Page

View friend activity, statuses & join chat rooms

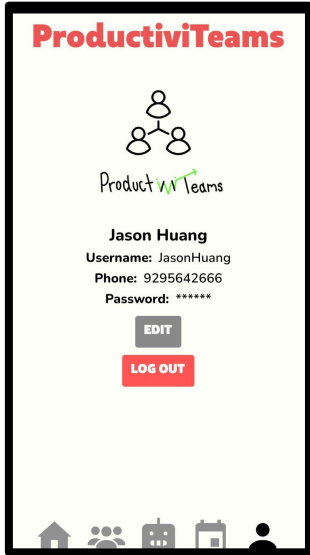


Calendar

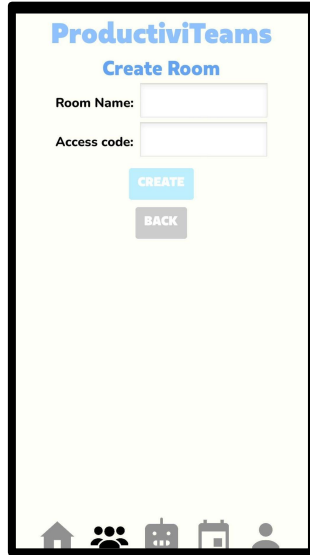
To assist with planning & prevent procrastination



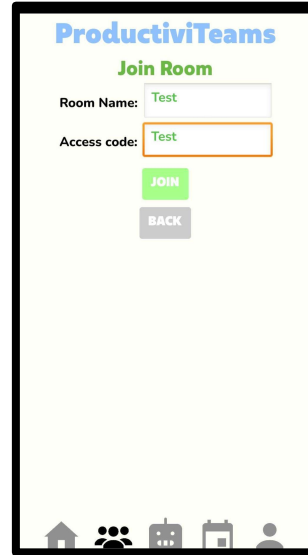
INSTRUCTIONS



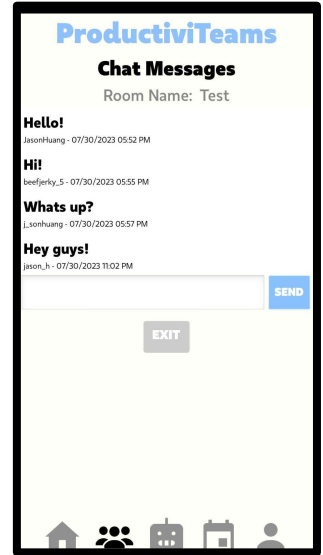
Account Page
Edit your personal account
info



Create Chat Room
Create your own chat room
to chat with friends



Join Chat Room
Join an existing chat room to
chat with friends



Chat Room
Chat with friends in private
chat rooms



INSTRUCTIONS

Study Technique Diagnostic

1. How complex is the material you're studying?
 Very Somewhat Not Complex

2. What amount of material are you studying?
 High Medium Low Amount

3. Is what you're studying more terms-based or concepts-based?
 Terms Concepts Mix/Other

4. How many iterations does it usually take for information to stick in your head?
 1-2 3-5 6+

5. Which of the following best fits your learning style?
 Reading Seeing Saying Doing

6. How social are you?
 Very Somewhat Not Social

7. How efficient are you?
 Very Somewhat Not Efficient

[Get Answer](#)

Your recommended study technique is...

Diagnostic Quiz
Complete a quiz to see which study method best suits your material


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Generate practice questions

Topic:

Number of questions:

[SUBMIT](#)



Practice Questions
Creates AI-generated practice questions based on user input



INSTRUCTIONS

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Feynman Technique

Popularized by Nobel Prize winning physicist Richard Feynman, the Feynman Technique is meant to help you understand and review complex topics by simplifying it so that it could be understood by a fifth grade student.

Here's how to use it:

1. Pick a topic and review it.
2. Once you feel comfortable with your topic, without using any source material, record yourself explaining it in simple terms, as if you were teaching it to someone younger than you.
3. Review your recording along with the source material. Did you explain everything correctly? Were there any flaws in your reasoning? Do you need to simplify further?
4. If there is anything that you are not proficient in, review your source material and create another recording.

Ready to begin?

[Start session](#)

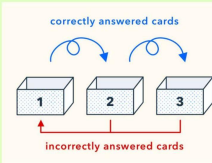
[BACK](#)

Feynman Assistant
Helps users apply this
teaching-based study method

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Leitner System

The Leitner System is a method of studying using flashcards that was proposed by German journalist Sebastian Leitner in 1972. Typically, the Leitner system is used to review topics with many pieces of information to memorize.



The Leitner System works with three categories of flashcards, each representing a different level of understanding. Once a flashcard has become trained enough, it can be moved to the next stage. Cards stuck in the first stage should be reviewed more frequently while cards in the last stage can be passively recalled.

[VIEW SETS](#) [CREATE SET](#)

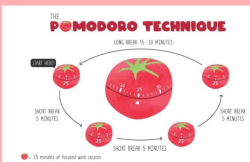
[BACK](#)

Leitner Assistant
Helps users apply this
flashcard-based study method

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Pomodoro Method

The Pomodoro Method is a simple system of studying that focuses on setting concrete studying periods between short intervals of resting time. Simply select the session length, the study interval length, and the break length, then start the session.



Total session length: **30 minutes** — +

Focused interval length: **15 minutes** — +

Break length: **5 minutes** — +

[START SESSION](#)

[BACK](#)

Pomodoro Assistant
Helps users apply this time
window-based study method



LIMITATIONS

As with any app, it's important to not overload the code and be patient while functions execute. Clicking buttons multiple times in quick succession may lead to errors. In the ChatBot function, due to a quota limitation on the number of requests, unique users can only make a limited amount of queries per day.

It's also important to note that this is a study assistant, and cannot force users to study, but instead is there to guide them to the process and make it easier and more achievable to study well.



ACKNOWLEDGEMENTS

Please list the names of anyone who helped you with developing your app, and describe what type of help they provided.

- Jinzhu Gao - Coaching
- Kevin Huang - Brainstorming
- Amy Lin - Brainstorming
- Xiuling Ma - Brainstorming
- Dr. Meng- Teaching us how to use MIT App Inventor



APPENDIX

Flowchart:

