

# **StudyHub Pilot Project: Focused Learning and Connection in a Virtual Space**

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## Abstract

StudyHub is a virtual platform designed to help students overcome study challenges by providing structured, hour-long sessions that include icebreakers, silent study, and reflection.

Grounded in self-efficacy, cognitive load, and belongingness theories, the project uses a mixed-methods approach to assess changes in student anxiety, focus, and performance.

The platform is accessible via web and mobile, requiring minimal setup, Early results from a December 2024 pilot indicate reduced anxiety, greater confidence, and improved study habits.

## Introduction

The ability to stay focused without distraction is essential for academic success. particularly during high-stakes periods like final exams. While quiet study spaces can enhance concentration and performance, students often face barriers such as overcrowded libraries, long commutes, or a preference for studying at home. However, home-based study can also lead to distractions. decreased motivation, and feelings of isolation.

To address these challenges, we developed StudyHub-a virtual, structured study environment designed to support focus and accountability through goal-setting, focused work, and guided reflection. Inspired by virtual co-working models. StudyHub was piloted with engineering students to assess its impact on motivation, connection, and academic focus. This paper presents the platform's structure, technical design, and future potential as an open-source academic support tool.

## Methodology

The StudyHub pilot ran during the December 2024 exam period with 10 engineering students. Each session followed a one-hour format: 2 minutes of goal-sharing, 53 minutes of silent study with cameras on, and a 5-minute guided reflection. Sessions were led by trained student organizers, with backup support. Participants used the StudyHub app to view sessions, set goals. and receive reminders. Pre- and post-session surveys, developed with counseling faculty, assessed self-efficacy, distractions, comfort, and productivity. Qualitative feedback was also gathered to inform improvements.

## Conclusion

StudyHub offers a practical, low-barrier approach to supporting student focus, motivation, and well-being through structured virtual study sessions. Early findings suggest it enhances academic confidence and reduces anxiety, with potential for broader implementation across disciplines.

69% 📼

## Results

Preliminary results from the pilot study showed positive outcomes. All participants (100%) reported feeling comfortable in the StudyHub environment, and 80% noted reduced anxiety following the sessions. Students valued the accountability of having cameras on, structured scheduling, and goal setting. Students feedback indicated reduced digital distractions, better task time estimation, and increased motivation. Participants also appreciated the sense of community fostered through brief social interactions, while recommending more hours and additional study resources for future iterations. Students preferred a consistent, direct link over installing an app. Starting sessions at the top of the hour made scheduling intuitive and reduced planning friction.

Session Stages

Stage 1:

Goal Setting

(2 min)

Stage 2:

Encused Study

(53 min)

Stage 3: Reflection Break

(5 min)

100%

100

80

60

40

20

Felt Comfortable

in StudyHub Reported Reduced

Participants

of

Percentage

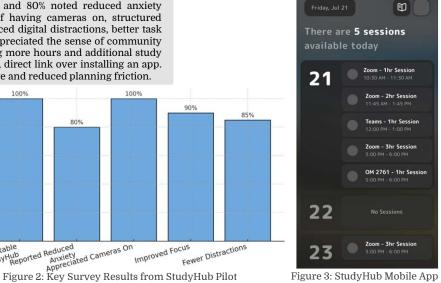


Figure 1: StudyHub Session Structure

## Recommendations

- To increase impact and accessibility, future iterations should:
- Expand promotion through student networks and social media
- Offer late-night and flexible session times
- Integrate productivity tools and study resources into the app · Collaborate with student unions to support long-term
- sustainability
- Use a fixed join link and start on the hour for simple, app-free access.

#### Acknowledgements

a Reduced Anxiety Appreciated Cameras On

80%

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100%

## References

[1] J. E

2008. [2] B. I [3] G. I educati [4] T. I Psycho [5] W. Balogu public [6] J. C online [7] Y. ' technol [8] R. I

, Raipicke and H. E. Roeuger HI, The critical importance of retrieval for realining, science, vol. 517, no. 5805, pp. 900-908,	
E. Massis, "In the library: quiet space endures," New Library World, vol. 113, no. 7/8, pp. 396-399, 2012.	
E. Spear and D. W. Mocker, "The organizing circumstance: Environmental determinants in self-directed learning," Adult on quarterly, vol. 35, no. 1, pp. 1–10, 1984.	
M. Gureckis and D. B. Markant, "Self-directed learning: A cognitive and computational perspective," Perspectives on	
logical Science, vol. 7, no. 5, pp. 464-481, 2012.	
Leal Filho, T. Wall, L. Rayman-Bacchus, M. Mifsud, D. J. Pritchard, V. O. Lovren, C. Farinha, D. S. Petrovic, and AL. n. "Impacts of covid-19 and social isolation on academic staff and students at universities: a cross-sectional study." BMC	
health, vol. 21, no. 1, p. 1213, 2021.	
ostales, J. Abellana, J. Gracia, and M. Devaraj, "A learning assessment applying pomodoro technique as a productivity tool for	
learning," in Proceedings of the 13th International Conference on Education Technology and Computers, 2021, pp. 164-167.	
Yi and R. H. Moon, "Sustained use of virtual meeting platforms for classes in the post-coronavirus era: the mediating effects of ory readiness and social presence." Sustainability, vol. 13, no. 15, p. 8203, 2021.	
Barranco Merino, J. L. Higuera-Trujillo, and C. Llinares Millán, "The use of sense of presence in studies on human behavior in	
environments: a systematic review," Applied Sciences, vol. 13, no. 24, p. 13095, 2023.	