


# Social media and higher education apps in higher education: a literature review

Research Project CSE3000  
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**1 Introduction**



- Mobile learning
- Social media (SM)
- Higher education (HE) applications
- Use cases

**2 Research question**

What is the connection between personal social media apps and educational apps: are there use cases for using classical social media apps for learning or more separation between social media and HE learning apps?

1. What are the use cases of social media apps and higher education apps within the context of higher education?
2. What are the potentials and challenges of integrating social media into a higher education environment?

**3 Methodology**

Systematic Literature Review

Scopus  
ScienceDirect  
IEEE Xplore Digital Library

Search terms:  
"higher education", "learning management system", "mobile social media learning", "acceptance", "higher education applications", "integration"

PRISMA principles [1]

Table 1: Inclusion and exclusion criteria	
Inclusion criteria	Exclusion criteria
Students involved in the research must study in a higher education program	The mobile device discussed in the study must not be a laptop, Netbook or stationary gaming console
Work must be published after 2018	
Students use mobile devices for learning within their HE	

**4 Total selection**

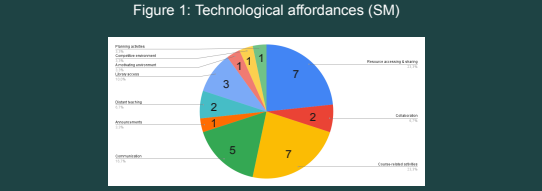
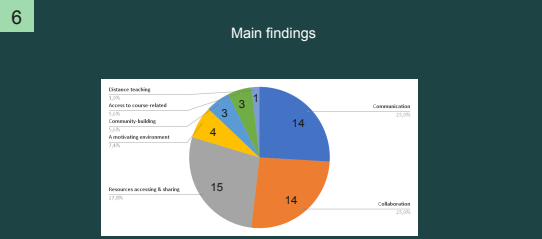
```

    graph LR
    A[380 initial results] --> B[87 after reading abstract or title]
    B --> C[22 duplicates]
    C --> D[31 paper after using inclusion/exclusion criteria]
    
```

**5 Analysis framework**

**Deductive coding:**  
Study context [2]

**Inductive coding:**  
Country of study  
Type of application used (HE app, or SM)  
Enhancement of learning processes  
Types of mobile devices  
Technological affordances [2]



**Advantages:**

- Resources
- Enhanced motivation
- Bonding (with instructors)
- Collaborative environment

**Barriers:**

- Perception of SM
- Privacy
- Digital divide

**7 Integration Frameworks**

**Framework 1:**

1. Pedagogy type
2. SM Challenges
3. Mitigation
4. Implementation
5. Evaluation [3]

**Framework 2:**

1. Identify features of Facebook
2. Compare them to existing HE application features in a following manner:  
"x" or "x+"  
"-x" or "-x-"  
"x="

 [4]

**Modified framework:**

1. Identify features of HE applications
2. Compare them to social media features in a following manner:  
"-x" or "-x+"  
"-x" or "-x-"  
"x="

**8 Conclusion**

Use cases  
Differences  
Advantages and Barriers  
Integration framework  
Future work

[1] Liberati, A., Altman, D. G., Tetzlaff, J., Mulrow, C., Gøtzsche, P. C., Ioannidis, J. P., Clarke, M., Devereaux, P. J., Kleijnen, J., & Moher, D. (2009). The prisma statement for reporting systematic reviews and meta-analyses of studies that evaluate health care interventions: Explanation and elaboration. *Journal of clinical epidemiology*, 62(10), e1-e34.

[2] Saldie, J. (2021). The coding manual for qualitative researchers. Sage.

[3] Hamadi, M., El-Dein, J., Azam, S., & Shiratanavivakul, N. (2021). Integrating social media as cooperative learning tool in higher education classrooms: An empirical study. *Journal of King Saud University-Computer and Information Sciences*.

[4] Molinari, A. (2017). Learning management systems and the integration with social media services: A case study. 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 775-781