Mobile Learning for Higher Education in PBL Environments

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This study is about the design and development of mobile technologies to support students’ collaboration in groups during project periods in a problem oriented and project based learning environment. The study will take departure in the group work of students in the faculty of Humanities, Aalborg University.

How can mobile technologies increase the quality of collaboration and group work in Problem Based Learning environments?

What are the benefits students can get from mobile learning in a PBL environment?

How do students currently use technologies to support their collaboration and how can mobile technology be used to enhance the collaboration in project?

How do mobile technologies change the way students learn and collaborate?

### References


### Key Points

- **Keywords**: Mobile Learning, PBL, Collaborative Learning, PLE, Integration

- **Research Questions**
  - How can mobile technologies increase the quality of collaboration and group work in Problem Based Learning environments?
  - What are the benefits students can get from mobile learning in a PBL environment?
  - How do students currently use technologies to support their collaboration and how can mobile technology be used to enhance the collaboration in project?
  - How do mobile technologies change the way students learn and collaborate?

### Methodologies (Empirical study) to find collaboration behavior in PBL
- Observation
- Interview
- Survey

### Figure 1. Conceptual Framework

- **Development Phase**
  - Testing and Evaluation
  - Design
  - Development

- **Users**
  - Prototype development
  - Functionality

- **Integration**
  - User behaviour testing
  - Usability testing

### Figure 2. Project tag cloud

- **Mobile Learning, PLE for Group work Collaboration in PBL**

### Figure 3. Sample of interface design

- **PLE Framework**
- **Mobile Interface**

- **App1**, **App2**, **App3**, **App4**, **App5**, **App6**

### Figure 4. Sample of integration framework

- **Mobile PLE for Group work Collaboration in PBL**

### Figure 5. Theoretical framework

- **Campus**
- **Groups**
- **Networks**
- **Collections**
- **Home**
- **Elsewhere**