

# Supporting the Process of Learning Mobile Application User Interfaces

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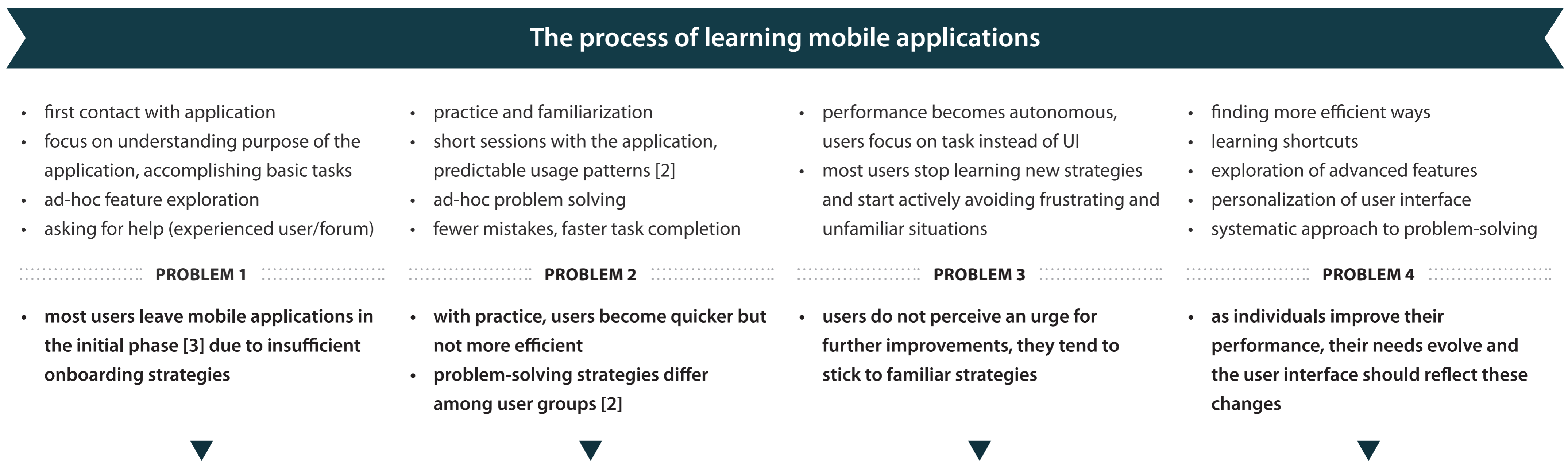
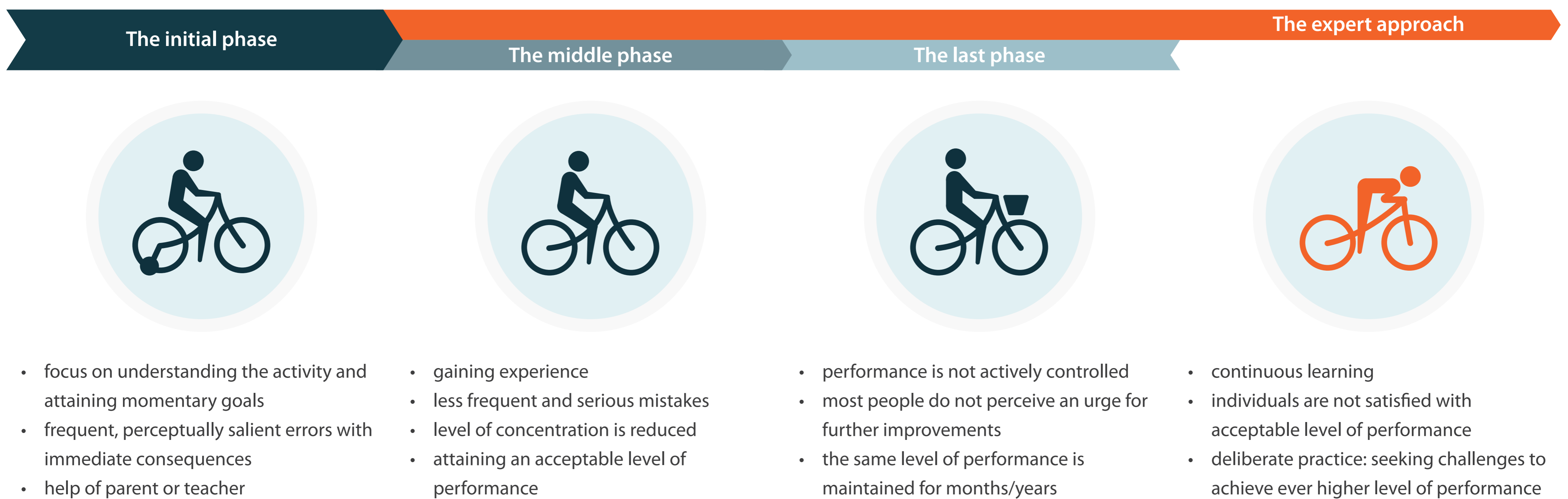


With the recent expansion of the mobile industry, applications for mobile devices are becoming more complex, empowering people to perform more advanced tasks. However, modern mobile user interfaces introduce several challenges, which affect learnability of mobile applications. For example:

-  Small screens provide space for displaying high-priority functions and reduce discoverability of advanced features [4].
-  Gestural UIs are engaging and intuitive for simple tasks but not for advanced operations [4].
-  Sessions with mobile applications are short [1, 6] and variable in the context of use [6], which affect users' attention.
-  Solely visual user interfaces without haptic feedback prevent activation of the muscle memory.

## The process of learning

Learning is a long-term process. Individual's needs are changing over time. To achieve the highest levels of expertise, learners should be engaged in deliberate practice to continuously improve their performance. (via [5])



**Research question: How to continuously support the process of learning mobile application user interfaces?**

## Objective

The objective of this research project is to investigate how people learn to use mobile applications, and how can this process be supported in different phases so that they quickly perceive the value of the application, accomplish basic tasks, and gradually learn new features in a natural way.

## Methodology & expected results

This study will consist of observation of users' behavior in the process of learning mobile UIs. Patterns in users' behavior will be investigated, in order to create learning profiles of representative user groups. Further profile examination should lead to the design of support mechanisms that will encourage various types of learners in the process of continuous learning of mobile applications.

## References

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