Android Dynamic Analysis

What's it about?
We already have two interesting frameworks for the dynamic analysis of Android applications.
(1) Magnum PI uses the Xposed framework to modify the operating system.
(2) API Monitor 2.0 injects code into applications that allows to dump important information from those apps.
In this project we aim to improve API Monitor 2.0 and integrate new functionality.

Goals:
- Improve a dynamic analysis framework
- Inject code into existing apps
- Analyze security features of applications
  - Key Derivation
  - Encryption
  - Secure communication

Interests:
- Mobile Devices
- Android
- Dynamic code analysis

Impact:
- Very important for analyzing the security of security relevant smartphone applications

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