Comenius University Bratislava
Faculty of Mathematics, Physics and Informatics

THESIS ASSIGNMENT

Name and Surname:	Fedir Kovalov
Study programme:	Computer Science (Single degree study, bachelor I. deg., full time form)
Field of Study:	Computer Science
Type of Thesis:	Bachelor´s thesis
Language of Thesis:	English
Secondary language:	Slovak

Title: Filesystem with Interactive Access Control for Linux

Annotation: Traditional access control mechanisms in operating systems allow the same level of access to all processes running on behalf of the same user. This typically enables malicious processes to read and/or modify all data accessible to the user running a vulnerable application. It can be dealt using various mandatory access control mechanisms, but these are often complicated to configure and are rarely used in common user oriented scenarios. This thesis focuses on design and implementation of a filesystem layer which delegates the decision to allow or deny access to a filesystem object by a specific process to the user.

Aim:
- analyse the problem and design a solution
- implement the solution using the FUSE framework
- test the solution and demonstrate its benefits

Supervisor:	RNDr. Jaroslav Janáček, PhD.
Department:	FMFI.KI - Department of Computer Science
Head of department:	prof. RNDr. Martin Škoviera, PhD.
Assigned:	31.10.2024

Approved: 31.10.2024 doc. RNDr. Dana Pardubská, CSc.
Guarantor of Study Programme

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Student

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Supervisor