

Course-Software-Testing

MarDATA

Enno Prigge Willi Rath Dilip Hiremath Sven Gundlach
Kiel University

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Motivation

Testing - What for?

- ▶ separate but integral part of software development process
- ▶ debugging
- ▶ usability - testing by users
- ▶ functionality - testing by developers
- ▶ start with the definition of the requirements
- ▶ ...

What is testing?

- ▶ testing nomenclature
- ▶ testing approaches
- ▶ testing divisions
- ▶ good coding practices support testing capabilities
- ▶ ...

Challenges

▶ ...

Common methods / SE Methods

1. categorized
2. Functional
3. Usability
4. Compatibility
5. Performance and load
6. Security
7. Installation / Deployment
8. Environment
9. Manual
10. Automated Testing
11. Device Testing
12. focus
13. ...

Relevant test types

1. Automated Test
2. Oracle Test/ Lookup check
3. Unit Test
4. Integration Testing
5. Metamorphic Testing
6. ...

Automated Test

- Requirements:
 - dedicated test area
- support
 - comparison with expected behavior
 - automatic execution of the tests

Oracle Test/ Lookup check

▶ ...

Unit Test

▶ ...

Integration Testing

▶ ...

Metamorphic Testing

▶ ...

Tool Introduction

- Deployment
- Introduction
- Local support
- Gain feedback

Tutorial

- Idots

Conclusion

- Idots