

- title : First page of first presentation
  - description : First page of first presentation
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  - transition : default
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## Application Testing

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### Agenda

- Why do we test?
  - Unit tests
  - Integration tests
  - UI tests
  - Q&A
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### Why do we test?

- Even if it compiles, it does not mean everything will work
  - Check logic, communication, even configuration
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### Test frameworks in .Net

- Nunit
  - Xunit
  - Moq
  - NSubstitute
  - Pact.Net
  - Selenium
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### Unit tests

- Automatic testing of our logic
  - Tests single functions
  - Should not depend on other classes
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### Mocks

- Testing classes with dependencies
  - Forces to use good practices
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## Demo

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## Integration tests

- Testing functions with their dependencies
  - Testing more than single function
  - Using real implementations instead of mocks
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## Pact.Net

- Testing communication between services
  - Helps in testing microservice architecture
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## Demo

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## UI Tests

- Automatic testing our front end
  - Tests user functionality
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## Demo

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## Manual tests

- Testing like user
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## Q&A

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## Links

- <https://github.com/PiastDotNET/Testing>
- <https://github.com/KrystianKolad/UnitTestTutorial>
- [https://www.youtube.com/watch?v=gQaShMN\\_tN8](https://www.youtube.com/watch?v=gQaShMN_tN8)