UNIVERSITAS SCIENTIARUM SZEGEDIENSIS
UNIVERSITY OF SZEGED
Department of Software Engineering

Program Systems Development practice

Practice 1

Introduction

Developer tools

Introduction

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- Consultation:
  - Dugonics tér 13., 1st floor, Room 148
  - Appointment: in e-mail

Obligation

- Attendance at practices are compulsory
  - How to check: from 3rd to 14th practices mini tests in CooSpace
  - Allowed number of absence: at requirements of mini tests

Structure of practices

- Mini test in 10 minutes (automatic evaluation)
- Teaching new materials, creating examples together
  - The examples will be uploaded after every lab (in CooSpace)
- Solve problems on your own

Mini tests

- You should fill in the tests in CooSpace (e.g.: single choice, multiple choice, error-correction, etc…)
- 10 minutes to solve the test
- 4 questions in each test
- The questions comes from the materials from the last practice
- Reach at least **50%** to get a *„successful”* for one test

Learning through examples

- Learning the new materials in 30 minutes
- Create examples together

Exercises

- Solve problems alone in 50 minutes
- Exercises are all from the new materials
  - Mainly programming
- **No obligation, just to earn extra points!!!**

Evaluation of exercises

- 1st: 4 points
- 2nd: 3 points
- 3rd: 2 points
- 4th: 1 point

```
if (extraPoints ≥ 16) {
    examGrade += 1;
}
```

Compulsory program

- Create a whole project from scratch till the end of the term-time (right before the start of exam period)
- Use Node.js and Angular 2+ technologies
- Work in groups of 2
- The groups have to show their projects in 10-15 minutes in the last practice
- Topics will be available right before the spring holiday (teams should be formed till there)
  - Max: 50 pts
  - Should be reached: 25 pts (50%)

Minimum requirements to take exam

- 7/11 successful mini tests (≥ 7 pts)
- At least 50% in the project work (≥ 25 pts) (specifications later)

- The mini tests, the project and the extra points for the exercises together determine the final mark.

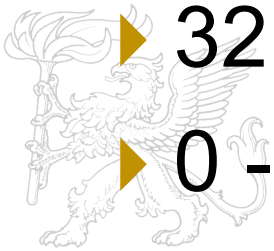
Topics of the semester

- 1. Introduction, VS Code
- 2. Git
- 3. Docker
- 4. Build tool (Grunt), JS/TS Examples, Asnychronous operations
- 5. NodeJS REST, REST + JS Client
- 6. REST + AUTH
- 7. MongoDB + NodeJS
- **8. Spring break – No practice!!!**
- 9. MongoDB + NodeJS
- 10. Angular
- 11. Angular
- 12. NetBeans/IDE4J Spring Boot
- **13. May 1 – No practice!!!**
- 14. Hibernate, Spring REST / Spring Security/Transactions
- 15. Project presentation

Grades and intervals

- Max: 62 points

- 55 - - 5
- 46 - 54 - 4
- 40 - 46 - 3
- 32 – 39 - 2
- 0 - 31 - 1



Good luck to the whole semester!!! ;)

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Visual Studio Code

Visual Studio Code

- Powerful source-code editor
- Works on Windows, Linux, Mac
- Built-in support for JavaScript, TypeScript, Node.js
  - Extensions for other languages (C++, C#, Python, PHP, etc…)

Visual Studio Code Extensions

- HTML Snippets
- HTML CSS Class Completion
- GitHistory
- Angular2