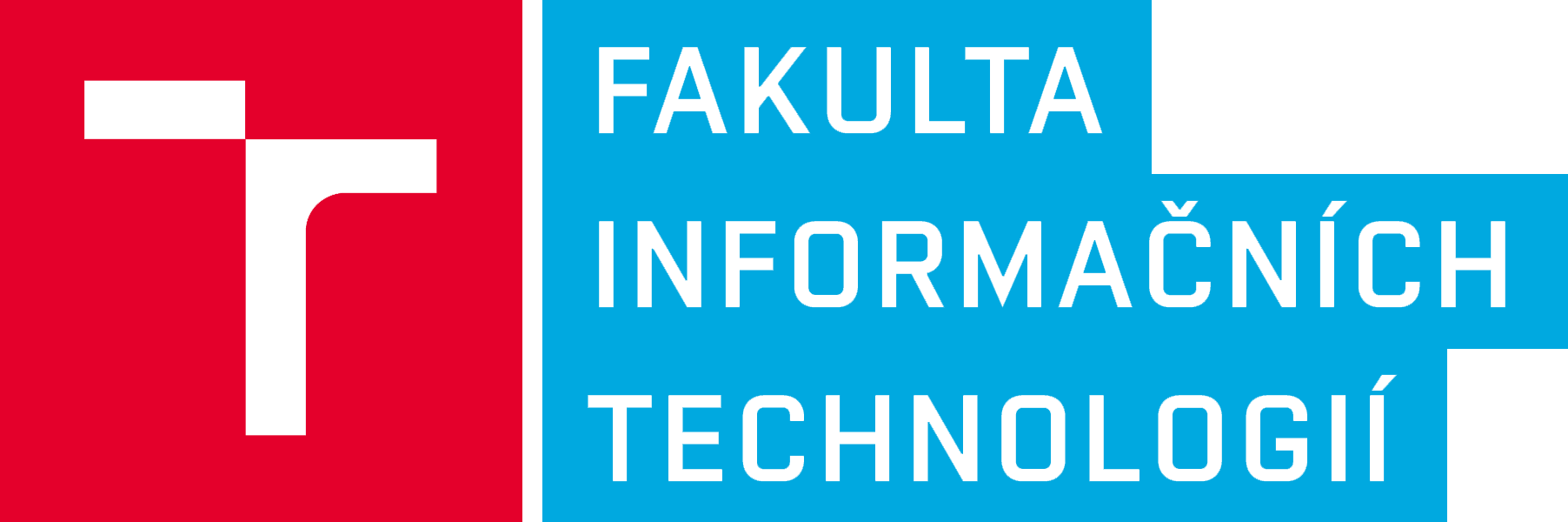
Faculty of information technology

Brno University of Technology



Documentation to the project for the IFJ and IAL courses

**Implementation of the compiler of the IFJ18 programming language**

Team 037, variant I.

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**Content**

1. **Teamwork**
   1. Work division
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2. **Implementation**
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5. <start> → <function> <st-list> ‘end’
6. <function> → ‘def’ <function-head> ‘EOL’ <st-list> <function-tail> <function>
7. <function> → ε
8. <function-head> → <function-id> ‘(’ <par> ‘)’ ‘EOL’
9. <function-tail> → ‘end’
10. <par> → <id> <next-pat>
11. <par> → ε
12. <next-par> → ‘,’ <par>
13. <next-par> → ε
14. <type> → ‘integer’
15. <type> → ‘float’
16. <type> → ‘string’
17. <st-list> → <stat> <st-list>
18. <st-list> → ε
19. <stat> → <id> <eval>
20. <eval> → ‘=’ <expr>
21. <eval → ε
22. <stat> → <id> ‘=’ <assign>
23. <assign> → <expr>
24. <assign> → <function-id> ‘(’ <call-par> ‘)’
25. <call-par> → <id> <call-par>
26. <call-par> → ε
27. <stat> → ‘if’ <expr> ‘then’ ‘EOL’ <st-list> ‘else’ ‘EOL’ <st-list> ‘end’
28. <stat> → ‘while’ <expr> ‘do’ ‘EOL’ <st-list> ‘end’