REPUBLIC OF MACEDONIA
Ss. Cyril and Methodius University in Skopje
Faculty of Computer Science and Engineering

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Final project proposal

Type	Undergraduate /Master
Title	***Static and dynamic analysis of source code***
Supervisor	Prof. Dejan Gjorgjevikj
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Department / Group	
Software Engineering	
Topic(s)	
Software engineering, Computer education, SaaS, Cloud computing	
Project can start from	01.04.2014 – 01.03.2015
Project duration	4 months
Short description	
The goal of the project is research and development of methods for dynamic and static analysis of source code. Some of current methods should be implemented and extended with new ideas and improvements. The implementations will be integrated in a framework for source code analysis and feedback generation used in a web-based system for automatic assessment of programming assignments.	
Results and assessment	
The final result from the project should be a written report on current methods of dynamic and static analysis of source code. Also implementation of some chosen methods and possible improvements should be provided. This implementation will be tested and evaluated on existing database of source code solutions on many problems from introduction level courses. The results from the testing and evaluation should be also reported and presented.	
Other (additional) information	