



- Design a modelling language for simplified Object-Oriented target platforms
- The language exploits separation of concerns by means of two different metamodels
 - one for the structure of the program
 - one for the behaviour of the program
- The structure contains (at least) classes, their attributes and methods
- The behaviour should allow (at least) assignments, a conditional expression, and an iteration construct (while, for, etc)



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 - (Optional) To define a M2M transformation in QVTo that from two input models (structure model and behaviour model) generates an intermediate model (conforming to a metamodel, different from the previous two, that you should define as well)



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 - To define one language (metamodel) for the *structure*
 - To define one language (metamodel) for the *behaviour*
 - (Optional) To define a M2M transformation in QVTo that from two input models (structure model and behaviour model) generates an intermediate model (conforming to a metamodel, different from the previous two, that you should define as well)
 - To define an *M2T transformation* in Xtend that from two input models (structure model and behaviour model) generate code in a selected target programming language (e.g. Java, C++)



- You can take inspiration from existing metamodels for structural and behavioural modelling (cite appropriately in the report)
- The complexity/expressiveness of the modelling languages is your choice
- All the concepts included in the languages (metamodels) have to be taken care of by the M2T transformation



Project report

- The project report should contain
 - A description of the metamodels with their intended use
 - A description of the transformation(s)
 - The case study implemented by the group
 - A description of the steps for running the project
 - Limitations and possible future extensions



Project submission and discussion

- You will be organized in groups (you will get them by e-mail by Wednesday)
- Nominate a group leader that will send me e-mail for notification to
 - antonio.cicchetti@mdh.se
- Zip your plugins (metamodels, transformations, models, ..) and your project report and send the .zip to
 - antonio.cicchetti@mdh.se
- Deadline: 31 May
- Groups will present their project work on 2June (9.15-12.00)