

Classification
<div><div>~id : String</div><div>~parent : Classification</div><div>~children : Algorithm[*]</div><div>~name : String</div></div>

Algorithm
<div><div>~id: String</div><div>~name : String</div><div>~description: String</div><div>~implementations : Implementation[*]</div><div>~problems : ProblemInstance[*]</div><div>~parent : Classification</div><div>~starRating : int</div><div>~author: User</div></div>

Implementation
<div><div>~id : String</div><div>~sourceCodeFilename : String</div><div>~languageName : String</div><div>~benchmarks : Benchmark[*]</div><div>~parent : Algorithm</div><div>~author : User</div></div>

User
<div><div>~id : String</div><div>~role: Role</div><div>~username: String</div><div>~password: String</div></div>

ProblemInstance
<div><div>~id : String</div><div>~datasetFilename : String</div><div>~name : String</div><div>~datasetSize : String</div><div>~problemType: String</div><div>~description: String</div><div>~author : User</div></div>

Benchmark
<div><div>~id : String</div><div>~machine : MachineConfiguration</div><div>~problem : ProblemInstance</div><div>~implementation : Implementation</div><div>~executionTime : float</div><div>~memoryUsage : float</div><div>~date : String</div></div>

MachineConfiguration
<div><div>~id : String</div><div>~cpu : String</div><div>~cores : Int</div><div>~threads : Int</div><div>~memory : String</div><div>~L1Cache : String</div><div>~L2Cache : String</div><div>~L3Cache : String</div><div>~author : User</div></div>

Role
<div><div>~id : String</div><div>~type: String</div></div>