

Group members: Giovanni Gola

Task	Hours/man
M1: Planning	3
Problem formulation	1
Project scheduling	2
M2: Requirements analysis	35
Scenarios identification	2
(Non-)Functional requirements identification	2
Actors identification	1
Use-cases formulation	2
Diagrams production	4
Alloy model formulation	4
UML diagrams production	4
Documentation	16
M3: Design	40
Architectural components definition	4
Components relations definition	4
Subcomponents and lower-level design	12
Data structures and database design	8
Documentation	12
M4: Implementation	45
Database setup	1
Persistent layer development	4
Persistent layer unit-testing	1
Business layer development	8
Business layer unit-testing	3
Presentation layer development	6
Presentation layer unit-testing	2
Bug-fixing	5
Documentation	15
M5: Testing	30
Requirements-Implementation validation	5
Component testing and bug hunting	15
Testing report production	10
Total time (hours)	153