Bellismo		Actual Hours Spent			
Task	Estimate	Resources	Documenting	Coding	Total
Research new technologies and understanding their concepts:					0
Html 5, PostgresSQL, Git	0,50	0,5	0,5		1
Angular2	1,00	2	0,5	0,5	3
NodeJs	1,00	2	0,5	0,5	3
Spring Boot	2,00	10	0,5	1	11,5
Spring Cloud	2,00	5	0,5	1	6,5
Netflix OSS	2,00				0
Apache Maven	1,00				0
Authentication:					0
Mapping and understanding user roles	1,00	1	0,5	0,5	2
Creating database tables for users	2,00	1	0,45	0,45	1,9
CRUD methods in back-end for users	3,00	2	0,2	1	3,2
UI for login and administrative control	3,00				0
Catalogue					0
Creating database tables to hold relevant information	4,00	1	0,5	2	3,5
CRUD methods for catalogue entries	5,00	3	0,5	1	4,5
Allowing uploads of pictures, resizing images and saving to database	2,00				0
Back-end to apply specials to specific items or categories	3,00	1	0,5		1,5
Search functionality	4,00				0
Filter functionality	4,00				0
Catalogue Purchases					0
Adding removing to cart	4,00	1	0,5	2	3,5
Payments	5,00	3	0,5	1	4,5
Testing					0
Add, remove users	2,50	1		1	2
Security of login	1,50				0
CRUD catalagoue entries	2,50				0
Apply specials	1,50				0
Search functionality*	1,50				0
Filter functionality*	2,50				0
*These include bug fixes					0

Others may be added with an extra 1,5 hours for bug fixes					0
Total	**61,50**	**33,50**	**6,15**	**11,95**	**51,60**
					0
Additions					0
More time has been added to the testing phase to cater for unit					0
testing and deeper testing which include corner cases.					0
					0

Metric	Phase 1	Phase 2	Comments
Structural Complexity	17,00	32	Users and Catalgue modules
Data Complexity	2,50	1,83	Users and Catalgue modules
System Complexity	19,50	33,83	Structural + Data
Cyclometic Complexity	6,00	6	Same answer using Edges and Predicative Nodes
Coupling	0,04	0,0159	Please see notes attached
Cohesion			
Tightness	0,64	0,5625	
Min Coverage	0,36	0,46875	
Coverage	0,60	0,5625	
Max Coverage	0,72	0,625	
Overlap	0,46	0,453125	