

Task	Effort	2011	May 2011	Jun 2011	Jul 2011	Aug 2011	Sep 2011	Oct 2011
▼ 1) Code Style Documentation and Training	9.5h							
• 1.1) Choose coding style	1h							
• 1.2) Document coding style	0.5h							
• 1.3) Train team in Javadoc	4h							
• 1.4) Train team in Junit	4h							
▼ 2) Maven	6h							
• 2.1) Train domain expert	5h							
• 2.2) Verify skeleton follows good practices	1h							
▼ 3) Jenkins Integration	1h							
• 3.1) Contact Eday and arrange Jenkins building of skeleton	1h							
▼ 4) User Documentation	15h							
• 4.1) Train Sphinx domain expert	6h							
• 4.2) Contact Sponsor and determine how user documentation will be delivered	1h							
• 4.3) Write narrative user documentation	8h							
▼ 5) Research and Design	> 33h							
▼ 5.1) Async Model	11h							
• 5.1.1) Research Async in Java	10h							
• 5.1.2) Decide on Callback vs Futures	1h							
▼ 5.2) Server Communication	> 10h							
▼ 5.2.1) HTTP	> 8h							
• 5.2.1.1) Research HTTP Libraries	8h							
• 5.2.1.2) Select HTTP Library	> 0h							
▼ 5.2.2) JSON	> 2h							
• 5.2.2.1) Research JSON Libraries	2h							
• 5.2.2.2) Select JSON Library	> 0h							
• 5.3) Design interface of blocking API	8h							
• 5.4) Adapt blocking interface for Async use	4h							
▼ 6) Implementation and Code Documentation	77h							
▼ 6.1) Blocking API	50h							
▼ 6.1.1) Memory Backend	12h							
• 6.1.1.1) Implement Memory Backend	8h							
• 6.1.1.2) Document Memory Backend	2h							
• 6.1.1.3) Create Unit Tests for Memory Backend	2h							
• 6.1.2) Implement Blocking Frontend	3h							
• 6.1.3) Document Blocking Frontend	4h							
• 6.1.4) Create Blocking Fronend Unit Test Suite	8h							
▼ 6.1.5) Blocking HTTP Backend	12h							
• 6.1.5.1) Implement Blocking HTTP Backend	8h							
• 6.1.5.2) Document Blocking HTTP Backend	2h							
• 6.1.5.3) Create Unit Tests for Async HTTP Backend	2h							
• 6.1.6) Extend Blocking Frontend to support HTTP	3h							
• 6.1.7) Jenkins-Run Integration Tests for Blocking API	8h							
▼ 6.2) Async API	27h							
▼ 6.2.1) Async HTTP Backend	15h							
• 6.2.1.1) Implement Async HTTP Backend	10h							
• 6.2.1.2) Document Async HTTP Backend	1h							
• 6.2.1.3) Create Unit Tests for Async HTTP Backend	4h							
• 6.2.2) Implement Async Frontend	2h							
• 6.2.3) Document Async Frontend	2h							
• 6.2.4) Adapt Test Suite to Async Frontend	8h							

