

<i>Date</i>	<i>Effort (Minutes)</i>	<i>Activity</i>	<i>Notes</i>
01/25/2008	60	Planning	Reviewed vision document requirements and content; produced initial outline of document as basic plan for producing vision document.
01/27/2008	60	Documentation	Vision document work.
01/27/2008	180	Investigation	Investigation related to project.
02/01/2008	240	Investigation	Investigation of Hiberbate 2nd level cache and JBoss Cache.
02/04/2008	60	Investigation	Jboss App Server port configuration. Investigation of JBoss application server was motivated by the desire to use an easily configured and deployed application server.
02/05/2008	60	Investigation	Oracle data source configuration - Oracle
02/07/2008	480	Investigation	Jboss App Server port configuration, JTA transaction management w/Hibernate, logging configuration. It is amazing to me how problematic it is to align transaction management and logging on an J2EE server platform using various open source components, although this would explain the market for integrated IDE/app server platforms.
02/07/2008	60	Investigation	Jboss App server/Spring Framework/Hibernate Integration
02/15/2008	240	Documentation	Vision document work.
02/18/2008	240	Prototyping	Prototyping work - cache replication and logging and tracing.
02/25/2008	90	Prototyping	Prototyping work - cache replication and logging and tracing.
02/26/2008	90	Prototyping	Prototyping work - cache replication and logging and tracing.
02/27/2008	90	Prototyping	Prototyping work - cache replication and logging and tracing.
02/28/2008	90	Prototyping	Prototyping work - cache replication and logging and tracing.
03/03/2008	240	Prototyping	Locking and concurrency prototypes. Note 4 hours was distributed over the week - journal entry did not break it out per day.
03/11/2008	300	Reading	Spent 5 hours this week reading papers related to Internet and replicated caching.
03/19/2008	60	Planing	Reviewed Dan Andresen's feedback on initial draft of vision document; planned activities to address issues raised in feedback.
03/21/2008	120	Reading	Internet and replicated caching reading.
03/24/2008	145	Reading	Internet and replicated caching reading.
03/26/2008	30	Reading	Internet and replicated caching reading.
03/27/2008	150	Reading	Internet and replicated caching reading.
03/28/2008	150	Reading	Internet and replicated caching reading.
04/18/2008	360	Documentation	Vision document work.
04/21/2008	45	Requirements Specification	Specification of system to frame investigation of replicated cache.
04/23/2008	35	Requirements Specification	Specification of system to frame investigation of replicated cache.

04/25/2008	60 Requirements Specification	Specification of system to frame investigation of replicated cache.
04/28/2008	35 Requirements Specification	Specification of system to frame investigation of replicated cache.
08/11/2008	55 Documentation	Vision document work.
08/22/2008	120 Requirements Specification	Specification of system to frame investigation of replicated cache.
08/23/2008	20 Requirements Specification	Specification of system to frame investigation of replicated cache.
08/26/2008	80 Documentation	Vision document work.
08/27/2008	70 Documentation	Vision document work.
09/27/2008	240 Prototyping	Attempted to integrate Hiberbate 3.3 with JBoss Cache 2.x. This was ultimately an exercise in futility as the Hibernate documentation does not accurately describe how the JBoss Cache 2.x configuration is performed.
10/03/2008	150 Prototyping	Attempted to configurare a JTA transaction outside of a J2EE application container that could be used in a Spring managed transaction that involved an Oracle resource manager accessed via the Spring ORM wrapper on top of Hibernate and a JBoss Cache resource manager. Bottom line is I could not get Hibernate to use a transaction manager lookup class - it assumed an JNDI lookup when doing a distributed transaction. Thus the project implementation will require an application server.
10/06/2008	120 Prototyping	More investigation of JBoss app server and associated IDE tooling. Based on investigation so far, while JBoss provides a lightweight application server that is easy to deploy, in the interest of actually completing this project, I will favor the IBM RAD/WebSphere combination as it will maximize developer productivity in the context of this project.
10/13/2008	120 Prototyping	Proof of concept prototype - web service integrated with Spring/Hibernate/Jboss cache: developed initial cut using Hibernate annotations.
10/14/2008	120 Prototyping	Completion of initial version.
10/15/2008	120 Prototyping	Testing revealed disconnect between hibernate/spring/Jboss in terms of the underlying platform transaction manager being used (non supported version being selected).
10/16/2008	120 Prototyping	Reimplemented prototype using xml mapping instead of annotations to allow Spring to provide the transaction manager; supported transaction manager is now being used.
10/17/2008	120 Prototyping	Finished up prototype, demonstrating replication.
10/19/2008	180 Investigation	Reviewed software development life-cycle and project management considers in the Royce project managment book. Went through MSE portfolio requirements to understand life-cycle components.
10/20/2008	60 Planning	Put together work breakdown structure for MSE project.
10/21/2008	90 Planning	Put WBS into MS Project, including estimates. Started project cost estimation.

10/22/2008	120 Planning	Completed project cost estimation; wrote project plan document.
10/23/2008	180 Planning	Produced software quality assurance plan.
10/27/2008	60 Time Recording	Crawled through journal entries and summarized in this time sheet.
10/28/2008	60 Web site	Started work on web site: went through the iWeb tutorial, verified ssh connectivity to department account still functioned.
10/29/2008	60 Web site	Loaded phase 1 artifacts into web site, published web site
10/30/2008	45 Web site	Added timelog to web site.