AIM-3 Final Project

General Instructions	Proposal Structure (up to one page summary)
1. Students must compose a 1-page proposal (following the structure on the right) and submit it no later than **Wednesday, 27.05.15 at 12 noon**. 2. All proposals are subject to approval. 3. Projects should be of sufficient complexity that it **will take six weeks** to complete. 4. Each team must be comprised of at most two students. 5. Eligible topics may be drawn from Groups A or B.	1. Project Title 2. Team Members 3. Problem Statement (Well Defined Targets & Scope) 4. Project Plan (Objectives, Planned Methodology, Experiments)

Term Report Structure (10-15 page paper)	**Final Presentation Structure**
1. Cover Page: *Title, Authors, Author Email Addresses, Course Title, Date*	1. Project Title
2. Introduction	2. Authors
3. Problem Statement	3. Problem Statement (Well Defined Targets & Scope)
4. Methodology	4. Methodology (Describe Approach)
5. Experiments	5. Experiments (Rigorous)
6. Results	6. Results (Interpret and Discuss, Draw Conclusions)
7. Conclusion	7. Conclusions (Relevance, Importance, Impact)
8. References	

Group A. Prospective Projects

[A1] Analyze a scalable analytic, conduct some numerical experiments, and report your findings.
[A2] Analyze a very large dataset using a scalable analytic and report your findings.
[A3] Analyze complexity of an analytic, propose a scalable solution, perform experiments, report findings.
[A4] Compare analytics, discuss the strengths and merits of each and illustrate them on a large dataset.
[A5] Evaluate an open-source or commercial big data technology using real data, report results.
[A6] Analyze a very large dataset using visual analytics tools (e.g., Tableau) and present your results.

Group B. Any topic that falls under one of the items listed below

[B1] Distributed Systems / MapReduce	[B2] Apache Flink	[B3] Apache Spark
[B4] Data Mining	[B5] Classification	[B6] Clustering
[B7] Dimensionality Reduction	[B8] Collaborative Filtering	[B9] Streaming
[B10] Network Analysis	[B11] Statistical NLP	[B12] Visual Analytics