**Project Name**

Undergraduate/Graduate Group # ??

Team member 1 (name, student ID, *email*)

Team member 2 (name, student ID, *email*)

Team member 3 (name, student ID, *email*)

Team member 4 (name, student ID, *email*)

**1. Introduction**

* Motivation examples of this project
* Real applications

**2. Project Description**

* Brief descriptions of your project
* Challenges and technical contributions (new problems or new solutions?) in your project
* The workload distribution for each member in your team

**3. Background**

* Related papers (or surveys for graduate teams)
* Software tools (DBMS, GUI, IDE, existing library, …)
* Required hardware
* Related programming skills (functions, Internet programming, object-oriented programming, distributed environment, etc.)

**4. Problem Definition**

* Formal (mathematical) definitions of problems
* Challenges of tackling the problems
* A brief summary of general solutions in your project

**5. The Proposed Techniques**

* Framework (problem settings)
* Details of major techniques (e.g., pruning methods in lemmas/theorems; illustrated with toy examples)
* Encoding or indexing of data
* Query processing algorithms (pseudo code) and query optimizations
* This section can be split into multiple sections if you have many contents to present

**6. Visual Applications**

* GUI design
* Design modules (with descriptions, figures, and/or flowcharts)

**7. Experimental Evaluation**

* Experimental settings
  + Descriptions of real/synthetic data sets
  + Competitors (baseline method, or existing techniques to compare with)
  + Parameter settings
  + Evaluation measures
* The performance report (pruning power, recall/precision/f-measure, CPU time, I/O cost, communication cost, index construction time/space, etc.)
* Screen captures

**8. Future Work**

* Possible project extensions

**9. References**

[1] FirstName1 LastName1, FirstName2 LastName2, and FirstName3 LastName3. Conference paper title. In *XXX*, pages XXX-XXX, 20XX.

[2] FirstName1 LastName1, FirstName2 LastName2, and FirstName3 LastName3. Journal paper title. In *XXX*, Vol. X, No. X, pages XXX-XXX, 19XX.