**Project Report – Project- II TX. MANAGER AND DEADLOCK DETECTOR**

**DBMS Models and implementation (Section 005)**

**Instructor: Sharma Chakravarthy**

**Team No:19**

**Team members:**

**1. Nabilahmed Patel (std id# 1001234817)**

**2. Archan Joshi (std id# 1001267688)**

**Overall Status –**

It is working perfectly fine in most of the cases. For the Tx. Manager we have checked 4 cases four all Tx. And according to that we have implemented 4 methods read, write, abort, commit. In Deadlock Detector, we implement traverse method using DFS in directed graph.

**File Description –**

It wasn’t necessary to create any new file. Provided files, and built in methods were adequate for the implementation of deletion.

**Division of Labor –**

As for division of labor, we divided the task to be accomplished with fairness. The names of team members are Nabilahmed Patel and Archan Joshi. We divided and understood different aspects of the algorithm and code (both, given by professor and from another external source for a better understanding of the working of this kind of project). Like, for example, Archan understood the Tx. Manager of the code, while Nabilahmed understood the Deadlock detector.We did coding by sitting together. We discussed the technical do-how’s between us before incorporating any part of the code. We spent almost similar number of hours on this project. Archan spent almost 25 hours and Nabiahmedl spent 30 hours for the said project.

**Logical Errors –**

* If we call the access the null pointer it will give dangling pointer error.
* If the zgt\_p(sem no) and zgt\_v(sem no) are not same then it will hang forever.
* If you co the operation after commit/abort it will give segmentation fault because Tx. Is removed from Tx. Manager.