

## **ABSTRACT**

*Project Management is an important thing to develop a project. With the existence of good management project, project can be executed better and on schedule.*

*Critical Path Method (CPM) is a management tool which is widely used in the construction project. A project network on CPM scheduling is composed of various activities interrelated in a sequential relationship. If delay occurs on one activity, it will eventually cause the project overall duration to delay.*

*To anticipate the project delays, can be use “what if” analysis by accelerarating the activities on CPM scheduling. The acceleration actions are treated in accordance with additional working hours and man-power in the succeeding activities.*

*In this final project, system for project management is built. This system is able to do the project schedulling and give recommendation for increasing man-power and working hours to anticipate the project delays .*

**Keywords:** *Critical Path Method, project scheduling, what-if analysis, project acceleration*