KFactor Project Plan

By Jason Ranger, Nathan House, Kate Levner, and Jacob Pledger

Introduction

The objective of this Kfactor is to develop a graphical user interface (GUI) tool that allows the client, to create, and modify Karnaugh Maps of up to 6 user-specified variables either through an expression, truth table or by directly manipulating the map grid. In addition, it will compute minimal sum-of-products and minimal product-of-sums of the user input. Truth Tables can also be loaded from .pla files.

This project must be completed by Thursday, April 15th, 2010. No budget has been allocated for this project; therefore our team will use the software and hardware provided by the University of Lethbridge. Any additional software needed will be free software. It is expected that all team members have access to all of the software and hardware necessary for development, testing, and running the system. Subversion will be used to track changes to the software throughout the development process.

Since our only main constraint is time, work breakdown and scheduling is important and so shall be outlined further in this document.

Project Organization

Our team is composed of four members. The roles are as follows:

Team Leader – Jason

The team leader's overall objective is to ensure that the team reports process data and completes the work as planned. He motivates the team, run weekly meetings, acts as liaison between the team and the Professor, etc.

Development Manager – Kate

The development manager's overall objective is to lead the team in defining, designing, developing, and testing the product. He leads the team in producing a development strategy, size and time estimates, requirement specifications, design specification, product implementation, and product testing.

Planning Manager – Nathan

The planning manager's overall objective is to support the team in planning and tracking the work. His activities include leading the team in producing the project plan, overall time and size estimation and tracking the team progress. In addition he will ensure that workload is balanced among the team members.

Quality/Process Manager – Curtis

Every team member will share the overall objective of the Quality/Process Manager which is to ensure process needs are defined, create the quality plan, and track process and product quality. Activities that will be shared by all the members include producing and tracking quality plan, defining processes, establish and maintain development standards.

Support Manager – Jacob Pledger

The support manager's overall objective is to support the team in determining, acquiring, and managing the technological and administrative tools needed. His activities are to obtain and maintain tools, manage change control system, manage issue tracking system, manage risk tracking system, and act as the team's reuse advocate.