

# Management Strategy

## Project LIMA

**Our management strategy is devised to exploit:**

- Inherent modularity of the project
- Skills and strengths exhibited by individual group members
- Skills and experience we would like to acquire from the project

**Work is split up into the following main spatial units with non-hierarchical structure:<sup>1</sup>**

- Administration and Planning
- System integration, analysis and testing
- Programming

## 1 Administration and Planning

*This wing has a two-fold operation. It serves to provide adequate logistics and also exercise project management skills to draw out timelines, Gantt and Pert charts and think ahead to draw out pertinent strategies. It works to ensure smooth functioning of the other wings by ensuring effective day-to-day role delegation and timetabling.*

### **Janet Wang (Logistics and Organisation)**

Janet has had previous experience of being a project manager. Although our group decided not to have an overall manager, she executes much of that responsibility in co-operation with Raghav. This involves handling the group's logistics and organisation. She is in charge of arranging and chairing group meetings, producing and publishing documents, which include agendas and minutes.

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<sup>1</sup>Please refer to LIMA 2003 ORGANISATION CHART

### **Raghav Kapoor (Strategies and Presentation)**

Raghav has taken up the role of sketching out strategies, planning ahead and thinking of the next step. He involves himself in drafting out timelines for the Programming and System Integration & Testing Wing to ensure work is done in time. The group decided to keep a look-ahead policy and thus, Raghav is in charge of planning for the end-of-project presentation.

## **2 System integration and testing**

*This wing aids and syncs with the Programming unit while providing effective feedback to the Administrative wing. It provides tools, testing, code review and benchmarking for the programmers.*

### **David Cornish (Systems Analyst)**

David is involved in programming, testing and code review. He has some experience in developing computer applications which keeps him in good stead with this role. David helps by looking into various tools available for our software development to provide effective implementation techniques.

### **Tara Symeonides (Systems Analyst)**

Tara has multifarious responsibilities. She looks at the group's work from an end-user perspective. She also helps out the programmers by implementing test-harnesses to examine and benchmark our code. She has done research into the suite of algorithms that our application is implementing.

## **3 Programming**

*The programming unit provides for the hard coding of the code.*

### **Jonathan Knowles (Integration)**

Jonathan has enormous experience in software development. His ideas spearhead the project giving it direction. He contributes towards the integration and effective implementation of the project. He co-ordinates between Matt and Phil to ensure harmonious code design.

### **Matt Painter (Factorisation)**

Matt's forte is mathematics. He has done extensive research into the algorithms that go behind our factorisation suite. Matt is in charge of coding the factorisation unit. He will be implementing various algorithms that shall effectively plug into our Distribution model.

### **Phil Wise (Distribution)**

Phil, by far is our JAVA expert. He has come up with an innovative scheme of distributing factorisation algorithms. Phil is in charge of making a Distribution Model that can plug into a suite of factorisation algorithms and effectively distribute their workload.

Our role delegation scheme relies on a minimal dependency paradigm. We work closely in teams of two (or at most three) to ensure *maximal work throughput*, whilst making sure the group functions as a whole, by maintaining good communication and frequent group discussions. This is the reason why a non-hierarchical structure is adopted, whereby members have equal stature within the group; communication flows efficiently on the same level rather than up and down a hierarchy. This scheme also provides *shadowing* wherein the group can compensate for the loss of one of its members.