Project Management Plan of PIMS

1. Project Summary

1.1 Project Overview
Personal Investment Management System (PIMS) is intended to help the user keep account of his/her money invested in institutions such as Banks and Share Market.

1.2 Project Scope
As described in the SRS, the project's scope is primarily managing the investment data of a single user, including data on transactions, performing computations like Net-Worth and Rate of Investment (ROI) on this data, downloading the current prices of shares for computing the ROI, and providing some authentication.

Actually performing the buying and selling transactions is out of scope of this project.

1.3 Development Process
We follow the iterative model of software development. The product will be developed in following two iterations.

First Iteration:. The core modules will be developed in this iteration which would include the following   modules:

Module	Purpose
Data Access Layer	Manage the database
Master Controller	The basic GUI for PIMS
Create/Delete/Rename/Edit Portfolio/Security/Transaction	Data processing modules for maintaining the database
Net Worth/ROI computation engine	Computation of Net Worth and ROI
Current Value System	Give the current price of a share. In this iteration the value will be fed by the user

Second Iteration. This iteration would complete the product in its full functionality. The following enhancements will be done in this iteration:

Module	Purpose
Alert system	Give alerts to the user
Net Loader	Downloads the current price of shares from a remote database
User Authentication System	This is a simple logging facility, provided for safe access to Investment database

Install module	For a user friendly installation of PIMS

Note: The product after the first iteration is a complete working system, though not with full functionality.

1.4 Effort, Schedule and Team:
The team comprises of the following 4 persons:
   a. Dr. Pankaj Jalote
   b. Kapil Narula
   c. Ragesh Jaiswal
   d. Vivek Pandey
Following is the schedule and effort for the 2 iterations:

Iteration #	Start Data (dd/mm/yyyy)	End date (dd/mm/yyyy)	Total Effort (person-hours)
Iteration 1	27/09/2003	24/10/2003	192
Iteration 2	25/10/2003	05/11/2003	88

Total Effort in man-hours: 280
Final delivery date: 06/11/2003

1.5 Assumptions made:
No major assumptions beyond what is stated in the SRS.

2. Detailed Effort and Schedule
We use the bottom up approach for estimation. In this we list the major modules and tasks and then estimate their effort and schedule. Task assignment to project members is also specified.

2.1 First Iteration:

#	Task	Estimated Effort (man-hrs)	Start Date (dd/mm/ yyyy)	End date (dd/mm/ yyyy)	Person	Actual Effort (man-hrs)
1	Create/Delete/Rename Portfolio/Security	24	27/09/2003	29/09/2003	Vivek	
2	Create/Delete/Edit Transaction	16	30/09/2003	02/10/2003	Ragesh	
3	Data Access Layer for the above	10	02/10/2003	04/10/2003	Ragesh	
4	GUI	80	06/10/2003	18/10/2003	Kapil & Vivek	
5	Compute Net-Worth	10	19/10/2003	20/10/2003	Ragesh	
6	Compute ROI	10	21/10/2003	22/10/2003	Ragesh	
7	Current Value System	8	21/10/2003	22/10/2003	Vivek	
8	Interfacing GUI with	14	22/10/2003	23/10/2003	Kapil	

#	Task					
	the core modules					
9	System testing for the first iteration	20	23/10/2003	24/10/2003	All	

The estimated effort in person-hours for the first iteration (including testing): **192**

2.2 Second Iteration

#	Task	Estimated Effort (man-hrs)	Start Date (dd/mm/ yyyy)	End date (dd/mm/ yyyy)	Person	Actual Effort (man-hrs)
1	Alert System	8	25/10/2003	25/10/2003	Vivek	
2	Net Loader	32	25/10/2003	28/10/2003	Ragesh	
3	User Authentication System	8	29/10/2003	29/10/2003	Kapil	
4	Installation system	10	30/10/2003	31/10/2003	Ragesh	
5	System testing for second iteration	20	01/11/2003	03/11/2003	All	
6	Documentation	10	04/11/2003	05/11/2003	Ragesh	

The estimated effort in person-hours for the second iteration (including testing): **88**

3. Team Organization
We will have a small team; hence we use a flat team structure of peers, with one person having an additional role of project manager. Following table gives the organization:

Name	Role
Dr. Pankaj Jalote	Supervisor
Kapil Narula	Developer
Ragesh Jaiswal	Developer
Vivek Pandey	Project Leader

The assignment of tasks to them will be maintained in the detailed schedule, a high-level view of which is given above.

4. Hardware and Software resources required
The only hardware resource required is an internet connection. Following are the main software resources that are required:

Software	Purpose
Junit	Unit testing
xlhtml	This software covert an xls file to html. Used for parsing the downloaded file of share prices

5. Quality Plan

The quality control process for this project will consist of the following:

- *SRS and Architecture Review*: The SRS and Architecture of PIMS will be reviewed by a team including people from outside.
- *Design Review:* Design document will be reviewed by the project team.
- *Unit Testing:* Each programmer is responsible for Unit Testing his module. The modules Create/Delete/Rename/Edit Portfolio/Security/Transaction and Compute Net Worth/ROI will be tested with Junit. For some modules, unit testing report will be produced.
- *System Testing:* Will be done according to the system test plan, which will describe the testing strategy as well as list all the test cases. The test plan will be reviewed.

6. Risk Management Plan

#	Risk	Probability	Impact	Mitigation Plan
1	User interface may not be acceptable as not specified fully in SRS	high	high	Build a few screens early and get approval
2	Not completing the project before the End Semester exam	high	Very high	• Break the project into 2 iterations and ensure that at least the 1st iteration is delivered successfully • Keep vacation time as slack time, and use if necessary
3	Quality may not be good	medium	medium	Use tools like Junit for Unit Testing
4	Rate Computation not correct	medium	high	Get some good test cases for different inputs and their known ROI and compare results

7. Project Tracking

As it is a small project, elaborate tracking is not necessary. Following is project tracking plan:

- We will primarily track the schedule and tasks. This will be done through weekly meetings and weekly status reports (to be sent by email.)
- Status of the tasks achieved and missed will be reported weekly.
- Effort tracking will be done informally, and if necessary re-estimation will be done.
- Risks will be revisited monthly in the review meeting.