INITIAL PLAN

for

ION-CHAT SYSTEM

Prepared By

DeepBlue

Ahmet Kara

Seda Barış

Erkin Baykal

Due Date: February 26th, 2002

Change History

This document is the first version (version 1.0) of ION-CHAT SYSTEM, Initial Plan that was released on February 26th, 2002. The subsequent changes will be mentioned in this part of the Initial Plan.

Preface

The document contains the Initial Plan of ION-CHAT SYSTEM. The mission of the project is to develop a web-based chat system for METU Informatics Institute Online IS Master Program.

The Goal of the initial plan is to describe overall picture of the ION-CHAT SYSTEM. This system is prepared according to IEEE standard **[1]**. The initial plan is in content compliance with the IEEE standard 1058-1998 in which the contents of this standard are rearranged and a mapping is provided. That is, the content compliant initial plan is mapped into various clauses and subclauses of the IEEE standard 1058-1998.

In addition to the IEEE standards, functions of project are discussed in section 1.1.3.

Table of Contents

List of Tables

List of Figures

1 OVERVIEW (Clause 1 of the SPMP)

1.1 Project Summary (Subclause 1.1 of the SPMP)

1.1.1 Purpose, Scope and Objectives (Subclause 1.1.1 of the SPMP)

The purpose of the project is to develop a web-based chat system for METU Informatics Institute Online IS Master Program. The name of the project is ION-CHAT SYSTEM and this is also the name of the final product to be delivered.

The objectives of the ION-CHAT SYSTEM are:

- To satisfy the online and real-time communication need for the members of ION-CHAT SYSTEM. That is the students and the instructors of METU Informatics Institute Online IS Master Program.
- To satisfy the above-mentioned need in a platform independent manner.
- To satisfy the above-mentioned needs considering the basic security issues for which the detailed description will be given in the software requirements specification.

The scope of the ION-CHAT SYSTEM is:

- The intended target users of ION-CHAT SYSTEM are ION students, instructors of Informatics Institute and acquirers.
- The ION-CHAT SYSTEM will be a text-based system. Any kind of audio-visual extensions are out of scope.
- The ION-CHAT SYSTEM will not be integrated with the existing ION system. It will be used as a separate system.

1.1.2 Assumptions And Constraints (Subclause 1.1.2 of the SPMP)

The assumptions of the project are;

- The DeepBlue consists of 3 (three) people where each person will work 15 (fifteen) hours in a week.

- Informatics Institute System Administration will supply the maintenance of the ION-CHAT SYSTEM.
- The correspondence of the documentation produced to the IEEE Standards **[1, 2, 3, 4]** is subcontracted by Mobilsoft.
- There is not any budget to use in the project since the project is being developed as a part of the graduate course IS 502 (Information Systems Projects).

The constraints of the project are;

- The schedule of the project is predefined by the customer.
- Since DeepBlue will not have authorization to access to ION system, ION-CHAT SYSTEM will be a standalone system, which means ION-CHAT SYSTEM will not work as an integrated part of the existing ION system rather it will be a separate and independent system.
- Since it is possible to have users from all over the world, the ION-CHAT SYSTEM will be web-based, platform independent.
- Since the project is being developed as part of the graduate course IS 502 (Information Systems Projects), there will be no payment to DeepBlue by METU-II.
- The software development processes and any kind of documentation will be in compliance with the IEEE Standards **[1, 2, 3, 4]**.
- Each room in the ION-CHAT SYSTEM will consists of four kinds of members, which are instructors, acquirers, reviewie team and reviewer team.
- For the project basically, the existing resources of DeepBlue will be used. The cost of any additional resources that can be needed cannot cause a budget overflow for the project.

1.1.3 Project deliverables (Subclause 1.1.3 of the SPMP)

- *Initial Plan*: The document will be prepared and submitted to is502@ii.metu.edu.tr e-mail address until February 26th, 2002.
- *Initial Plan Review Report*: The subcontractors will review the initial plan until February 27th, 2002. Then Initial Plan Review Report will be prepared by the subcontractors after the Initial Plan Review and will be submitted to DeepBlue's e-mail address until 24:00 in the same day.

- *Updated Initial Plan*: DeepBlue will update the Initial Plan until March 1st, 2002 and will be presented to the acquirer.
- *SRS*: The document will be prepared and submitted to is502@ii.metu.edu.tr e-mail address until March 17th, 2002.
- *SRS Review Report*: The subcontractors will review SRS until March 20th, 2002. Then SRS Review Report will be prepared by the subcontractors after SRS Review and will be submitted to DeepBlue's e-mail address until 24:00 in the same day.
- *Updated SRS*: DeepBlue will update SRS until March 22nd, 2002 and will be presented to the acquirer.
- *SPMP*: The document will be prepared and submitted to is502@ii.metu.edu.tr e-mail address until March 31st, 2002.
- *SPMP Review Report*: The subcontractors will review SPMP until April 3rd, 2002. Then SPMP Review Report will be prepared by the subcontractors after the SPMP Review and will be submitted to DeepBlue's e-mail address until 24:00 in the same day.
- *Updated SPMP*: DeepBlue will update SPMP until April 5th, 2002 and will be presented to the acquirer.
- *SDD*: The document will be prepared and submitted to is502@ii.metu.edu.tr e-mail address until April 28th, 2002.
- *SDD Review Report*: The subcontractors will review SDD until May 1st, 2002. Then SDD Review Report will be prepared by the subcontractors after the SDD Review and will be submitted to DeepBlue's e-mail address until 24:00 in the same day.
- *Updated SDD*: DeepBlue will update SPMP until May 3rd, 2002 and will be presented to the acquirer.
- *Delivery of Product*: The product will be delivered on May 19th, 2002.
- *User Manual*: The document will be prepared on June 9th, 2002.
- *Demonstration of Product*: The demonstration of the product will be done on June 9th, 2002.
- *Delivery of Final Product*: The final product will include the software, the software source codes and the user manuals. The delivery will be on June 9th, 2002.

1.1.4 Schedule and Budget Summary (Subclause 1.1.4 of the SPMP)

Due Date	Document / Activity Name
26 February 2002	Initial Plan
27 February 2002	Initial Plan Review
27 February 2002	Initial Plan Review Report
01 March 2002	Updated Initial Plan
17 March 2002	SRS
20 March 2002	SRS Review
20 March 2002	SRS Review Report
22 March 2002	Updated SRS
31 March 2002	SPMP
03 April 2002	SPMP Review
03 April 2002	SPMP Review Report
05 April 2002	Updated SPMP
28 April 2002	SDD
01 May 2002	SDD Review
01 May 2002	SDD Review Report
03 May 2002	Updated SDD
19 May 2002	Delivery of Product
09 June 2002	User Manual
09 June 2002	Demonstration of Product
09 June 2002	Delivery of Final Product

Table 1: Schedule of the Project

As explained in subclause 1.1.2, no budget is associated with ION-CHAT SYSTEM. For hardware and software needs existing resources of DeepBlue will be used.

1.2 Evolution of Plan (Subclause 1.2 of the SPMP)

This is the first version of the Initial Plan where subsequence changes will be mentioned in this part of the Updated Initial Plan. The table below shows the updates which are planned to be done to the Initial Plan.

Due Date	Document / Review Type
26 February 2002	Initial Plan
01 March 2002	Updated Initial Plan

Table 2:Update Plan of the Initial Plan

2 REFERENCES (Clause 2 of the SPMP)

[1] IEEE Std 1058-1998, IEEE Standard for Software Management Plans

[2] IEEE Std 830-1998. IEEE Recommended Practice for Software Requirements Specifications

[3] IEEE Std 1016-1998, IEEE Recommended Practice for Software Design Descriptions

[4] IEEE Std 1063-1998, IEEE Standard for Software User Documentation

[5] Sommerville, Ian, Software Engineering, Sixth Edition, Pearson Education, 2001.

[6] Pressman, Roger S., *Software Engineering "A practitioner's Approach"*, Fifth Edition, McGraw-Hill, 2000.

[7] Laudon Kenneth C. and Laudon Jane P., *Management Information Systems "New Approaches to Organization & Technology"*, Fifth Edition, Prentice Hall, 1998.

[8] Demirörs Onur, *Lecture Notes* of *IS 507 Introduction to Software Engineering*, Fall 2001.

3 DEFINITIONS & ABBREVIATIONS (Clause 3 of SPMP)

Acquirer: The customer, which specifies the requirements for the product and gets the final product and its documents.

Acquiring organization: It is the company, which will define the requirements for the project and will approve and accept both the product deliverables and the final product, namely METU-II.

Chat group: A group of users working on the same project either as a project developing team or as a reviewer team.

COCOMO: Constructive Cost Model.

DeepBlue: Software development team of ION-CHAT SYSTEM.

DeepBlue's e-mail address: This corresponds to the e-mail addresses of the DeepBlue members stated in Table 3.

FP: Function Point.

IEEE: Institute of Electrics & Electronics Engineering.

ION SYSTEM: Existing informatics online system.

ION: Informatics Online.

ION-CHAT SYSTEM: Informatics online chat system.

IS 502: Information Systems Project course.

METU-II: Middle East Technical University Informatics Institute.

MobilSoft: Subcontractor of DeepBlue.

Reviewer Team: Subcontractor of Reviewie Team.

Reviewie Team: The company that presents the project.

Room: The place where users will chat with each other.

Root: Administrator account of ION-CHAT SYSTEM.

SDD: Software design document. The representation of software system for communicating the software design information.

SPMP: Software project management plan. The controlling document for managing the software project.

SRS: Software requirements specification.

Subcontractor: The company, which carry out the quality assurance of the project.

System group: A group of users, which have a common set of access restrictions to ION-CHAT SYSTEM.

User id: A set of characters that identifies the user.

User: The students, instructors, acquirers and the root.

4 PROJECT ORGANIZATION (Clause 4 of SPMP)

4.1 External Interfaces (Subclause 4.1 of SPMP)

Figure 1 indicates the external interfaces of the ION-CHAT SYSTEM.

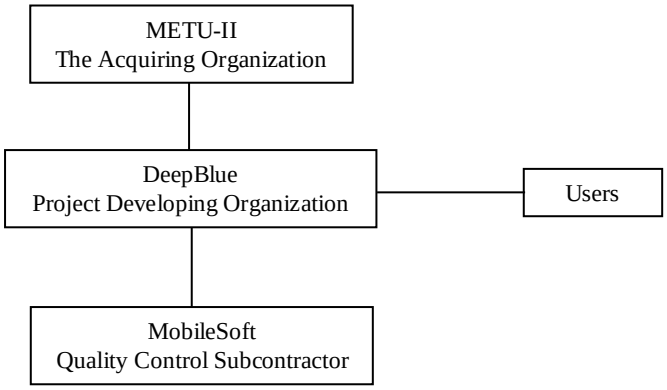

Figure 1:External Interfaces of the ION-CHAT SYSTEM

List of Responsible People to Contact:

METU-II (The Acquiring Organization): METU-II research assistants (Çiğdem Gencel, Murat Yakıcı)

MobileSoft (The Quality Control Subcontractor): Koray Atalağ, Filiz Doğan, Emre Kösen and Murat Sincan.

Users: METU-II instructors, ION students, the root and METU-II research assistants.

4.2 Internal Structure (Subclause 4.2 of SPMP)

Since responsibility of the project is shared among the members of DeepBlue, it is a matrix organization **[7]**. The internal structure of the project organization is given in Figure 2.

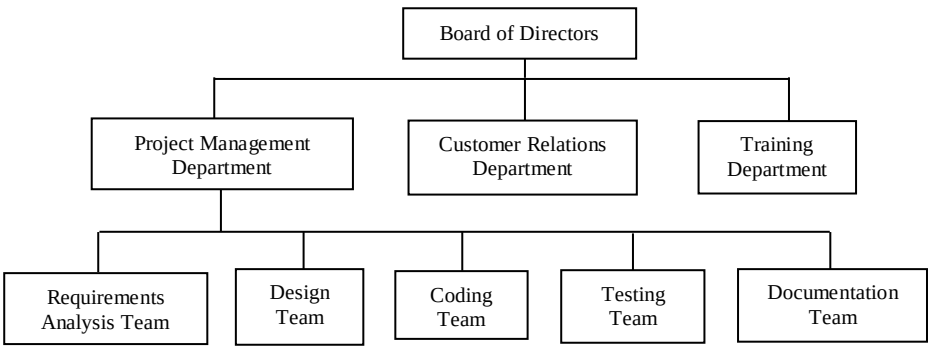

Figure 2:The Internal Structure of the Project Developing Organization

4.3 Roles and Responsibilities (Subclause 4.3 of SPMP)

External Entities:

Acquiring Organization: It is the company, which will define the requirements for the project and will approve and accept both the product deliverables and the final product.
Subcontractor: It is the company, which carries out the quality assurance of the project. In this regard, it is responsible from the preparation of review reports for the project documentation.
Users: They are the people, who will use the system, namely, students, acquirers, instructors and the root. Their opinions will be gathered in an informal manner.

Internal Entities:

Name	E-mail address	Roles & Responsibilities
Ahmet Kara	ahmetkara@gmail.com	Member of board Project manager Customer relations representative Requirements engineer Programmer Test engineer Instructor for training
Seda Barış	sedabaris@gmail.com	Chairperson of board Project vice-manager Head of training department Requirements engineer Programmer Head of documentation team
Erkin Baykal	erkinbaykal@gmail.com	Member of board Project vice-manager Customer relations representative Head of design team Programmer Instructor for training

Table 3:Roles and Responsibilities of DeepBlue Members

Board of Directors: is responsible from setting corporate strategy, overall direction, mission and vision.

Training Department: is responsible from planning and giving / outsourcing the necessary training for the company personnel at all levels.

Customer Relations Department: is responsible from managing the high-end relations with the customers.

Project Management Department:

Requirements Analysis Team: is responsible from collecting and documenting the system requirements as a whole.

Design Team: is responsible from planning how the required system functionality is to be provided.

Coding Team: is responsible from realizing the products designed.

Testing Team: is responsible from verifying that the developed system represents the requirements in a complete and correct manner.

Documentation Team: is responsible from preparing the system documentations intended for different audiences.

5 MANAGERIAL PROCESS PLANS (Clause 5 of the SPMP)

5.1 Project Start-up Plan (Subclause 5.1 of the SPMP)

5.1.1 Staffing Plan (Subclause 5.1.2 of the SPMP)

Since DeepBlue has only three members, all the members will work in every phase of the project. The ION-CHAT SYSTEM phases is shown in Table 1.

The estimated monthly staff requirement is shown in Figure 3.

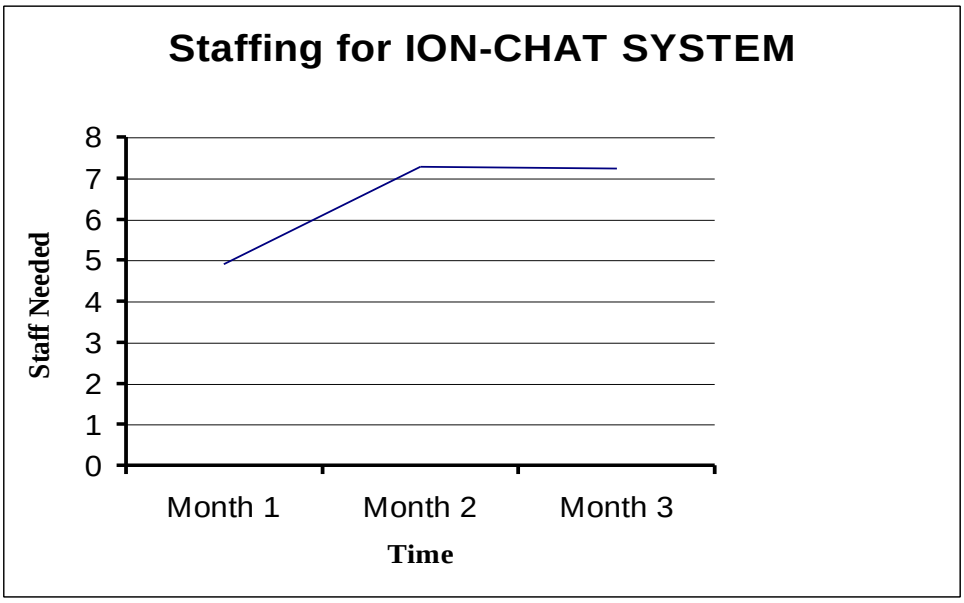

Figure 3:Staffing for ION-CHAT SYSTEM

5.1.2 Resource Acquisition Plan (Subclause 5.1.3 of the SPMP)

- Since both DeepBlue members (as student) and acquirers are located in METU Campus, there will be no transportation cost for meetings.
- Training part of the ION-CHAT SYSTEM does not need any payment. Since, DeepBlue members will do training internally.
- For any kind of hardware and software needs the existing resources of DeepBlue will be used.

5.1.3 Project Staff Training Plan (Subclause 5.1.4 of the SPMP)

Subject	Start	End	Trainer	Method
Standards	16. 02. 2002	01. 05. 2002	Ahmet Kara	Lecture and discussion
Java	01. 03. 2002	27. 03. 2002	Erkin Baykal	Lectures
C++	01. 03. 2002	27. 03. 2002	Seda Barış	Lectures
Testing	01. 04. 2002	27. 04. 2002	Ahmet Kara	Lecture and discussion

Table 4: Staff Training Plan