



Project Plan



Neurology Diagnosis System

Version 1.0

Revision History

Date	Revision	Description	Name	Approved By
11/18/2008	1.0	Initial version	NDS Team	Bikram Lal Shrestha

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1 Project Summary

1.1 Project Overview

'**Neurology Diagnosis System**' is concerned about the construction of a web-based expert system. The objective of the system is to help the diagnosis process of neurology doctors. Neurology is a medical specialty that deals with disorders of the nervous system. Doctors will use the website as a helpful tool to diagnose their patients. The web application will collect rules of the neurology domain and cases of the patients. Integrating the techniques of rule-based reasoning and case-based reasoning a hybrid system will be constructed. The system will use the rules and cases to achieve the objective of assisting the decision making process of the domain experts.

1.2 Project Scope

The system will be used in hospitals by neurology doctors as a helpful tool to diagnose their patients. The system will provide suggestions regarding the possible diagnosis to be performed and list the relevant past cases.

To focus only on specific diseases that belong to the neurology domain and provide a decision support system tool to assist doctors. The list of diseases to be covered is as follows:

1. Brain Tumor
2. Meningitis
3. Encephalitis
4. Epilepsy
5. Elevated intracranial pressure (intracranial hypertension)
6. Strokes and transient ischemic attack (TIA)

2 Project Planning

2.1 Project Workflow

1. Planning
 - a. Project plan
 - b. Approval
 - c. Presentation
2. Requirements
 - a. Research & study
 - b. Requirement definition (SRS)
 - c. Presentation
 - d. Reworks
 - e. Approval
3. High level design
 - a. Design specification
 - b. Presentation
 - c. Reworks
 - d. Approval
4. Detail design
 - a. Design specification
 - b. Presentation
 - c. Reworks
 - d. Approval
5. Implementation
 - a. Coding
 - b. Self unit testing
6. Code Integration
 - a. Integration planning
 - b. Approval
 - c. Platform setup
 - d. Build
 - e. Reworks
7. System Testing
 - a. System Testing
 - b. Reworks
8. Internal Presentation
 - a. Product manual
 - b. Approval
 - c. Presentation
 - d. Reworks
9. Final Presentation

- a. Project summary report
- b. Presentation

2.2 Schedule

2.2.1 Project Estimates

Phases	Effort (person-hrs)
Planning & Monitoring	42
Requirements	60
High level design	40
Detail Design	140
Implementation	460
Code Integration	90
System Testing	80
Internal Presentation	24
Final Presentation	24
Total Estimated Effort	960

Team Size: 4

Total project duration: approx 12 weeks

Effort required per person: 20 hrs/week

2.2.2 Milestones

SN	Date	Milestone	Deliverables
1.	11/18/2008	Planning	Project plan
2.	11/24/2008	Requirements	SRS
3.	11/28/2008	High level design	Design specification (high level)
4.	12/10/2008	Detail Design	Design specification (complete)
5.	1/19/2009	Implementation	Source codes
6.	1/26/2009	Code Integration	Integrated product
7.	3/8/2009	System Testing	Tested product
8.	3/12/2009	Internal Presentation	Product manuals, project reports
9.	3/18/2009	Final Presentation	software product, manuals, all software artifacts

2.2.3 Detail Schedule

ID	Task Name	Start	Finish	Duration	Nov 2008		Dec 2008				Jan 2009				Feb 2009				Mar 2009			
					16/11	23/11	30/11	7/12	14/12	21/12	28/12	4/1	11/1	18/1	25/1	1/2	8/2	15/2	22/2	1/3	8/3	
1	Planning	11/14/2008	11/15/2008	2d																		
2	Requirements	11/17/2008	11/23/2008	7d																		
3	High level design	11/24/2008	11/27/2008	4d																		
4	RBR System Design	11/24/2008	11/25/2008	2d																		
5	CBR System Design	11/26/2008	11/27/2008	2d																		
6	Detail Design	11/28/2008	12/9/2008	12d																		
7	Detailed Design of CBR	11/28/2008	12/3/2008	6d																		
8	Detailed Design of RBR	12/4/2008	12/9/2008	6d																		
9	Implementation	12/10/2008	1/17/2009	39d																		
10	Code Integration	1/18/2009	1/25/2009	8d																		
11	Exams	1/26/2009	2/28/2009	34d																		
12	System Testing	3/1/2009	3/7/2009	7d																		
13	Internal Presentation	3/8/2009	3/12/2009	5d																		
14	Final Presentation	3/13/2009	3/17/2009	5d																		

2.3 Configuration Management Plan

2.3.1 Artifacts produced

All source codes and project artifacts will be stored in SVN.

Location: <http://dev.d2labs.org/gf/project/nds/scmsvn/Artifacts/>

Artifacts	Name	Baseline Area
Project plan	Project Plan - nds.doc	http://dev.d2labs.org/gf/project/nds/scmsvn/Artifacts/Plan
Project schedule	Schedule - nds.doc	http://dev.d2labs.org/gf/project/nds/scmsvn/Artifacts/Plan
SRS	SRS - nds.doc	http://dev.d2labs.org/gf/project/nds/scmsvn/Artifacts/Specs
Design specifications	Design Spec - nds.doc	http://dev.d2labs.org/gf/project/nds/scmsvn/Artifacts/Specs
Integration plan	Integration Plan - nds.doc	http://dev.d2labs.org/gf/project/nds/scmsvn/Artifacts/Specs
Source code		http://dev.d2labs.org/gf/project/nds/scmsvn/Artifacts/Codes
Project summary report	PCR - nds.doc	http://dev.d2labs.org/gf/project/nds/scmsvn/Artifacts/Plan
Project status report	PSR - nds.doc	http://dev.d2labs.org/gf/project/nds/scmsvn/Artifacts/Plan
Product manual	Manual - nds.doc	http://dev.d2labs.org/gf/project/nds/scmsvn/Artifacts/ProjectDocs

2.3.2 Hardware and Software Resources

Resource	Purpose
JDK	Programming Language
JSP	UI Programming
Internet Explorer	Default Browser
Apache Tomcat	Application Server
Windows XP	Platform
Oracle	Database Management Tool
Eclipse	Programming
MS Word	Documentation
Latex	Documentation
Adobe Dreamweaver	Interface Design and Development
Inkscape	Web Development
D2Forge	Configuration & Management

2.4 Project Team

2.4.1 Roles and Responsibilities

Role	Responsibilities
Mentor	<ul style="list-style-type: none"> • Mentoring • Project plan approval • SRS approval • High level design approval • Detail design approval • Integration plan approval • Product approval after internal presentation
Team lead	<ul style="list-style-type: none"> • Project planning • Project status reports • Schedule tracking • Co-ordinate scheduled activities • Track deliverables • Team lead also works as a team member
Team member	<ul style="list-style-type: none"> • SRS • High level and detail design • Integration plan • Coding and self unit testing • System testing • Manuals • Project summary report

2.4.2 Team

Resource	Roles
Bikram Lal Shrestha	Mentor 1
Badri Adhikari	Team lead
Md. Hasan Ansari	Team member
Priti Shrestha	Team member
Susma Pant	Team member

3 Status Reporting

Responsibility	Report	Frequency
Team lead	Project Status Report	Weekly to mentor
All members	Activity Logging	Weekly
Team lead	Project summary report	After internal presentation

4 Project Meetings

Meeting	Frequency	Contacts
Weekly meeting with mentor	Weekly	Mentor
Monthly meeting with coordinator	Monthly	Program coordinator

Appendix A: Activities

The following activities will be available at D2Labs for activity logging

Requirements

High level design

Detail design

Coding & self unit testing

Code integration

System testing

Reworks

Product manual

Project planning & tracking

Internal presentation