IPRO 338

**Building and Implementing a
Knowledge Management System**

Project Plan

Fall 2004

Purpose

During the fall of 2004, IPRO 338 will continue the work of three previous IPRO teams in developing and implementing a knowledge management system (KMS) called "iKNOW" for the Interprofessional Projects (IPRO) program at Illinois Institute of Technology. Specifically, the Fall 2004 team will add to the code the Spring 2004 team produced by filling in missing functionality as well as adding new extensions to the software, first and foremost a full-text search engine. The team will also thoroughly test the system in terms of functionality, performance and usability, produce a roll-out plan and insert documents that will aid continuing IPRO teams, as well as further explore the possibilities of collaboration between the team and its sponsor company, Topiary Communications, Inc. As part of the collaboration with its sponsor, IPRO 338 will research and implement self-help websites that will aid IIT students perform better in the IPRO program as well as use iKNOW using Topiary's product, PersonalPro.

Team Structure

IPRO 338 will work on four major tasks whose activities will be performed by four groups. Each group will have a student leader and several members. Students may be members of several task groups.

Complete iKNOW (300 Hours)
> Dusty Hendrickson (Leader)
> Nadim S. Haque
> Ryan Hochstetler
> Adam Jenkins
> Atif Khan
> Eric Swanson

iKNOW Roll-Out (200 Hours)
> Mark Riego de Dios (Leader)
> Nadim S. Haque
> Ryan Hochstetler

Extend iKNOW (250 Hours)
> Atif Khan (Leader)
> Nadim S. Haque
> Dusty Hendrickson
> Ryan Hochstetler
> Adam Jenkins
> Eric Swanson
> Vance Thornton

PersonalPro Self-Help Applications (250 Hours)
       Vance Thornton (Leader)
       Ryan Hochstetler
       Atif Khan

IPRO Deliverables (150 Hours)
       All team members

Total work time allotted: 1150 Hours

Tasks

Complete iKNOW. This team will continue previous IPRO 338 teams' efforts to complete the code base for the KMS, correct program errors, produce accurate documentation for both developers and users and conduct hardware upgrades as well as functionality, performance and usability tests.

iKNOW Roll-Out. This team will identify document submissions by previous semesters' IPRO teams that might be of help to current IPRO teams that continued work from previous teams. This task also includes researching descriptive data such as abstracts, process narratives, experts and other information to associate with documents, insert them into the system and produce documentation that will aid future iKNOW users to make efficient use of the system.

Extend iKNOW. This team will lead efforts to incorporate a full-text search engine as well as self-help websites produced by Topiary PersonalPro into the iKNOW system. The team will also produce functional requirements for future 1.1 and 2.0 versions of iKNOW as well as work with Topiary Communications, Inc. to identify methods of integrating their software, PersonalPro, with iKNOW in future versions.

PersonalPro Self-Help Applications. This team will research content and produce self-help websites that will aid future IPRO students work effectively. The team will make extensive use of Topiary's PersonalPro software in order to produce these websites.

Timeline

The timeline is attached in form of a Gantt chart and details planned activities for first-, second- and third-level tasks throughout the semester.

ID	Task Name	Duration	Start	Finish	Predecessors
1	Complete iKNOW	60 days	Sun 19.09.04	Thu 18.11.04	
2	Bugfixing	5 days	Sun 19.09.04	Fri 24.09.04	
3	Complete Functionality	15 days	Sat 25.09.04	Sun 10.10.04	
4	Developer Documentation	36 days	Sun 19.09.04	Mon 25.10.04	
5	User Documentation	10 days	Mon 11.10.04	Thu 21.10.04	3
6	Hardware Upgrades	11 days	Sun 19.09.04	Thu 30.09.04	
7	Functional Testing	12 days	Sun 03.10.04	Fri 15.10.04	6
8	User Testing	60 days	Sun 19.09.04	Thu 18.11.04	
9	Performance Testing	20 days	Fri 01.10.04	Thu 21.10.04	6
10	iKNOW Roll-Out	67.71 days	Sun 19.09.04	Fri 26.11.04	
11	Gather/Research IPRO D	51 days	Sun 19.09.04	Tue 09.11.04	
12	Gather IPRO Docume	17 days	Sun 19.09.04	Wed 06.10.04	
13	Research Metadata (	28 days	Mon 27.09.04	Mon 25.10.04	
14	Research Metadata	14 days	Tue 26.10.04	Tue 09.11.04	
15	Load IPRO Documents	39 days	Sun 10.10.04	Thu 18.11.04	
16	Load Data (S/M 2004	17 days	Sun 10.10.04	Wed 27.10.04	
17	Load Data (F 2003)	10 days	Mon 08.11.04	Thu 18.11.04	
18	Roll Out iKNOW	12.71 days	Sat 13.11.04	Fri 26.11.04	
19	Produce iKNOW Han	7 days	Sat 13.11.04	Sat 20.11.04	
20	Create iKNOW User	7 days	Fri 19.11.04	Fri 26.11.04	
21	Extend iKNOW	71 days	Sun 19.09.04	Tue 30.11.04	
22	Full-Text Search	71 days	Sun 19.09.04	Tue 30.11.04	
23	Research	14 days	Sun 19.09.04	Sun 03.10.04	
24	Design	21 days	Sun 03.10.04	Sun 24.10.04	23
25	Implementation	14 days	Sun 24.10.04	Sun 07.11.04	24
26	Testing/Bugfixing	22 days	Sun 07.11.04	Tue 30.11.04	25
27	PersonalPro Integration	48.67 days	Sun 10.10.04	Sun 28.11.04	
28	Research	13 days	Sun 10.10.04	Sat 23.10.04	
29	Design	14 days	Sat 23.10.04	Sat 06.11.04	28
30	Implementation	10 days	Sat 06.11.04	Tue 16.11.04	29
31	Testing/Bugfixing	11.67 days	Tue 16.11.04	Sun 28.11.04	30
32	Upcoming Versions	36 days	Tue 12.10.04	Wed 17.11.04	
33	Functional Requirem	10 days	Tue 12.10.04	Fri 22.10.04	
34	Functional Requirem	10 days	Sun 07.11.04	Wed 17.11.04	
35	PersonalPro Self-Help Applica	68.71 days	Sun 19.09.04	Sat 27.11.04	
36	Project Management	42.67 days	Sun 19.09.04	Mon 01.11.04	
37	Outline/Create Conte	13 days	Sun 19.09.04	Sat 02.10.04	
38	Review (Outline)	1.33 days	Sat 02.10.04	Sun 03.10.04	37
39	Framing/Create Cont	17 days	Sun 03.10.04	Wed 20.10.04	38
40	Review (Framing/Cor	1.33 days	Wed 20.10.04	Fri 22.10.04	39
41	Implementation	10 days	Fri 22.10.04	Mon 01.11.04	40
42	Communication Skills	36 days	Tue 05.10.04	Wed 10.11.04	
43	Outline/Create Conte	10 days	Tue 05.10.04	Fri 15.10.04	
44	Review (Outline)	1.33 days	Sat 16.10.04	Sun 17.10.04	43
45	Framing/Create Cont	13 days	Mon 18.10.04	Sun 31.10.04	44
46	Review (Framing/Cor	1.33 days	Mon 01.11.04	Tue 02.11.04	45
47	Implementation	7 days	Wed 03.11.04	Wed 10.11.04	46
48	Teamwork Skills	35.33 days	Fri 22.10.04	Sat 27.11.04	
49	Outline/Create Conte	10 days	Fri 22.10.04	Mon 01.11.04	
50	Review (Outline)	1.33 days	Tue 02.11.04	Wed 03.11.04	49
51	Framing/Create Cont	13 days	Thu 04.11.04	Wed 17.11.04	50
52	Review (Framing/Cor	1.33 days	Thu 18.11.04	Fri 19.11.04	51
53	Implementation	7 days	Sat 20.11.04	Sat 27.11.04	52
54	IPRO Deliverables	76.33 days	Thu 16.09.04	Thu 02.12.04	
55	Project Plan	4 days	Thu 16.09.04	Mon 20.09.04	
56	Mid-Term Report	3 days	Sun 17.10.04	Wed 20.10.04	
57	Oral Presentation	14 days	Tue 16.11.04	Tue 30.11.04	
58	Exhibit	14 days	Sun 14.11.04	Sun 28.11.04	
59	Abstract	3 days	Mon 29.11.04	Thu 02.12.04	

Legend: Task, Progress, Milestone, Summary, Rolled Up Task, Rolled Up Milestone, Rolled Up Progress, Split, External Tasks, Project Summary, Group By Summary, Deadline