Universiti Teknologi MARA

Personalized Notification Agent for Invigilation Timetable

NORHIDAYAH BINTI MOHAMAD YUSOP

Thesis submitted in fulfillment of the requirements for Bachelor of Computer Science (Hons) Faculty of Mathematics and Computer Sciences

MAY 2010

ACKNOWLEDGEMENT

Assalamualaikum. w. w

First and foremost, grateful to Allah the almightily for his bless and chances to help me to complete this project. I also would like to say a million thanks to my supervisor, En. Wan Ya Bin Wan Hussin for his guided, suggestions, lessens, commitment, cooperation and also patience constructive criticism for this thesis. Your advice has been great importance to the completion of this study. I also would love to thank my coordinator, Dr. Nasiroh Binti Omar for her precious advice, time, contributions, comments and guidance.

Secondly, I would like to express my gratitude and thank to my family who cares about me without a never ending love, and giving me all the support that they can in hoping that I will succeed in anything.

Last but not least, I would like to give my thanks to the interviewee whom have helped me a lot in my thesis, my friends who were there for me when I needed to share my problems and to all of the persons who involve in this final year project of mine. Thanks for inspiring me in such a means that I could not write it in words.

ABSTRACT

A personalized notification agent is developed by implementing two concepts - personal agent and notification system. The aim of this project is to provide an invigilation timetable notification to invigilator. The application allows the invigilator to customize their notification based on their preference. This project was developed using Extreme Programming (XP) methodology. This prototype also can be enhanced using multi-agent for mobile application to make the application more effective and efficient.

Table of Contents

CHAF	PTER 1: II	NTRODUCTION									
1.0	Project Background										
1.1	Problem Statement										
1.2	Project Objectives										
1.3	Project	Project Scope									
1.4	Project Significance										
CHAF	PTER 2: L	ITERATURE REVIEW			5						
2.0	Introdu	ction									
2.1	Definiti	on of	1	Agent							
2.2	Types	of	Ag	Agents							
2.3	The	Characteristic	of	Agent							
2.4	Personal Agent										
	2.4.1	Personal Agent Framewo	rk								
2.5	Notification System										
2.6	ObjectDock										
2.7	Conclusion										
CHAF	PTER 3: N	IETHODOLOGY									
3.0	Introduction										
3.1	Methodology										
	3.1.1	Exploration									
	3.1.2	Planning									
	3.1.3	Iteration									
	3.1.4	Production									

3.2	Hardware and Software Requirement									
	3.2.1	Hardware Requirement.							23	
	3.2.2	Software	Requ	irement						
СНАР	τέβ η· βι	FSTILT AN	JD FI	NDING					25	
4.0	Introduct	tion							25	
ч.0 Д 1	System Paguirement						25			
4.1	4.1.1 Use Case Diagram							25		
	4.1.2	Uses Case Scenario								
	4.1.2	Sequence	- Diag	ram						
4.2	System Diagram						27			
1.2	4 2 1	Interface Design						27		
	4.2.2	Docklet	Interfa	ce					32	
4.3	Impleme	ntation	ntation 32							
4.4	Testing 34							34		
	4.4.1	TEST	1:	Verify	correct	staff	id	entered	34	
	4.4.2	TEST	2:	Verify	incorrect	staff	id	entered	34	
	4.4.3	TEST 3:	Notify	v alert base	ed on default	setting			34	
	4.4.4	TEST 4: Notify alert based on customize day setting 35								
	4.4.5	TEST 5: Notify alert based on customize day setting 35								
		(a head of invigilation date)								
	4.4.6	TEST 6: Notify alert based on customize time setting								
	4.4.7	TEST 7: Notify alert based on customize time setting 36								
		(a head o	of invig	gilation tir	ne)					
	4.4.8	TEST 8: Notify alert based on customize time and36								
		date setti	ing							
			-							
CHAP	TER 5: CO	ONCLUSI	ON.							
5.0	Introduction									
5.1	Recommendation									