AGENDA OF MEETING			
Meeting Title Supervisor Meeting – Algorithm & Order of Complexity			
Date 03-07-2012			
Start Time 2000			
End Time 2100			
Called By Prof Hady			
Venue Prof Hady's Office			
Attendees Yosin, Jek Bao, Prof Hady			
Objective Planning for scheduling and optimisation			

PREPARATION FOR MEETING:

Please Read:	Please Bring:
-	-

ACTION ITEMS FROM PREVIOUS MEETING:

No	Action Item	PIC	Comment	Due Date	Status

AGENDA TOPIC:

No	Agenda Topic	PIC	Due Date
1	Propose Plan	Jek	
2	Bipartite Application (clarify)	Yosin	
3	Technical Architecture (clarify)	Yosin	
4			
5			

MINUTES OF MEETING				
Meeting Title Supervisor Meeting – Algorithm & Order of Complexity				
Date	03-07-2012			
Start Time	Start Time 2030			
End Time	1 Time 2130			
Venue Prof Hady's Office				
Invitee List Prof Hady, Jek, Yosin				
In Attendance Yosin, Jek Bao, Prof Hady				
Absent	-			

DECISIONS:

1000	1310113.	
No	Subject	Decision
1	CSO and CSA	Tricky part: CSO and CSA relationship. CSO can act as CSA but not the other way round. However, we will do this in a later part. Solve a simpler issue first: meaning we treat CSA and CSO differently
2	Jobs and Staff schedule	Assign job to staff or assign staff to job. Better idea: assign staff to job as staff timeslot is more flexible. - Use staff assign to job, without considering their roster. - If we are to consider roster later, just assign extremely high cost/infinity cost so as to eliminate the timeslot from schedule - Attach cost to each timeslot and choose the min. cost as the timeslot
3	Half an hour issue	Difficult for bipartite matching as bipartite matching
4	Notion of cost	It is a penalty to undesirable outcome Cost can include 'break hours' Capturing cost is important
5	Efficient	Among the first 30 people
6	Hypothesis	We can come out with similar schedule as SATS' only if we can capture the most of the costs
7	Proposal	 Consider ways of doing things and choose one that is suitable for our issue Present Problem formulation – cost function and so on Suppose want to do this in optimal way is too expensive –NP hard problem, in theory, meaning it is polynomial problem O(n^x) and thus not a practical solution. Thus, we should use Greedy algorithm – read Travelling Salesmen problem
8	System Architecture	Interaction between systems, user, DB

ACTION ITEMS:

No	Action Item	PIC	Comment	Due Date	Status
1	Read Travelling salesmen -	Yosin, Jek		07/07/2012	
	Chapter 12				
2	Understand the complexity	Yosin, Jek		07/07/2012	
	of the problem and prepare				
	proposal				

CARRY-OVER ITEMS FOR NEXT MEETING:

No	Subject	Description

NOTES:	
Prepared by,	Vetted and edited
Yosin	
Endorsed by supervisor,	