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## **Tutorial 4**

The problem can be divided in two ways one that is based on expertise and one that is based on the problem itself

## • Based on expertise:

It will be divided into UI, Logic, Database and documentations. each part has its own team. In this case the Dependency matrix will be:

		User Interface Module			Logic Module					Data	base	APIs for modules				
										Mod	dule					
		Ul for Doctors	UI for Nurses	UI For Management	UI for Patience	Logic for Doctors	Logic for Nurses	Logic for Management	Logic for Patience	DB for Doctors	DB for Nurses	DB for Management	DB for Patience	API for UI Module	API for Logic Module	API for Database Module
	UI for Doctors		Х	X	Х									Х	Х	
User Interface Module	UI for Nurses	Х		X	X									Х	X	
	UI For Management	Х	X		X									Х	X	
	UI for Patience	Х	X	X										Х	X	
Logic Module	Logic for Doctors						X	X	Х					Х	X	X
	Logic for Nurses					Х		X	X					Х	X	X
	Logic for Management					Х	X		Х					Х	X	X
	Logic for Patience					Х	X	X						Х	X	X
	DB for Doctors										Х	Х	Х			X
Database Module	DB for Nurses									Х		Х	Х			X
	DB for Management									Х	X		Х			X
	DB for Patience									х	Х	х				Х
APIs for modules	API for UI Module															
	API for Logic Module															
	API for Database Module															
	Documentations	Х	Х	X	X	Х	X	х	х	Х	Х	Х	Х	Х	X	X

## • Based on the problem:

My idea was to divide it based on the people it is serving thus it was divided into four main categories:

- a. Management
- **b.** Doctors
- c. Nurses
- **d.** Patience

in this case the Dependency matrix will be:

		Management		Do	ctors	Mod	ule	Nu	irses	Mod	ule	Pati						
			Mo	dule		50	01010							, ac				
		UI For Management	Logic for Management	DB for Management	Documentation	UI for Doctors	Logic for Doctors	DB for Doctors	Documentation	UI for Nurses	Logic for Nurses	DB for Nurses	Documentation	Ul for Patience	Logic for Patience	DB for Patience	Documentation	Shared Infrastructure
Management Module	UI For Management		Х	Х														
	Logic for Management	Х		Х														
	DB for Management	Х	X															Х
	Documentation	Х	X	Х														Х
	UI for Doctors						Х	Х										
Doctors Modulo	Logic for Doctors					Х		X										
Doctors Module	DB for Doctors					Х	X											Х
	Documentation					Х	Х	Х										Х
Nurses Module	UI for Nurses										Х	Х						
	Logic for Nurses									Х		Х						
	DB for Nurses									Х	Х							
	Documentation									Х	Х	х						
Patience modules	UI for Patience														Х	Х		
	Logic for Patience													Х		Х		
	DB for Patience													Х	Х			Х
	Documentation													Х	Х	х		Х