

	2018				
	March	April	May	June	July
1. Analysis of proposed system					
1.1. Analysis of the problem, research and selection of possible solutions	10 h				
1.2. Analysis of RFID technology	10 h				
1.3. Analysis of NativeScript technology	10 h				
1.4. Analysis of MongoDB best practices		10 h			
1.5. Analysis of Socket.IO technology		10 h			
1.6. Learning how to connect different devices in a network		10 h			
2. Implementation					
2.1. Programming mobile application with NativeScript	40 h				
2.2. Creating a MongoDB database		5 h			
2.3. Connecting mobile application with MongoDB server (HTTP request/response)		10 h			
2.4. Connecting mobile application with MongoDB server (Socket.IO)			10 h		
2.5. Connecting Matlab program to MongoDB database			10 h		
2.6. Establishing a LAN between all components (Laptops, RFID reader)			10 h		
2.7. Establishing a WIFI between MongoDB database and smartphones/tables			5 h		
3. System testing					
3.1. Device testing			30 h		
3.2. Functional tests			20 h		
3.3. Tests at the hospital (HUCA, Oviedo)				10 h	
4. Analysis of results					
4.1. Conclusions and analysis of proposed system					20 h
5. Documentation and final report writing		10 h	10 h	15 h	20 h