Electronic Parts Tracker

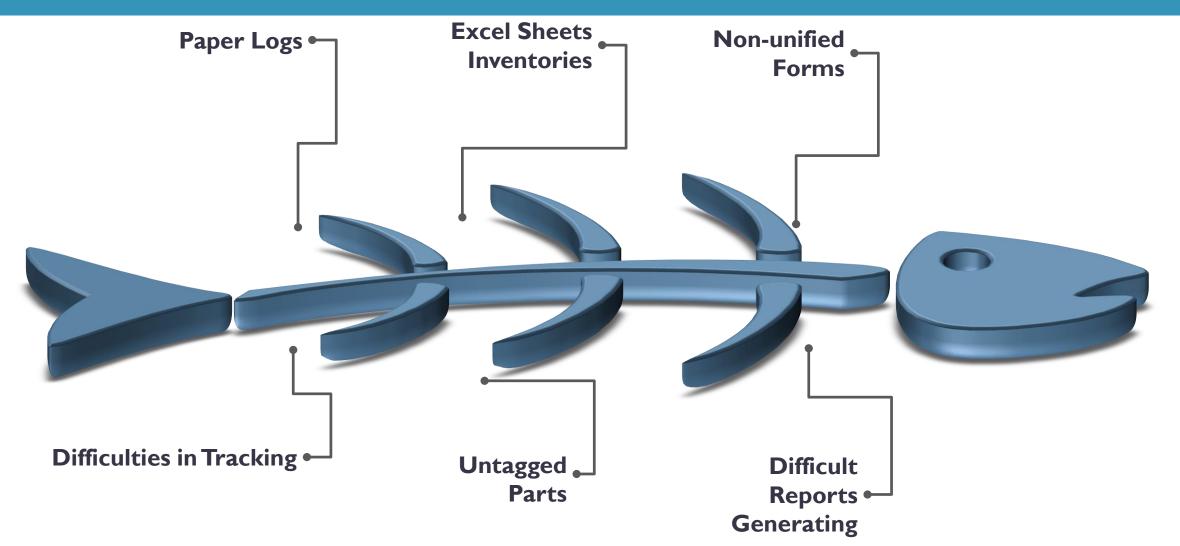
COE 485

Wael Elagi

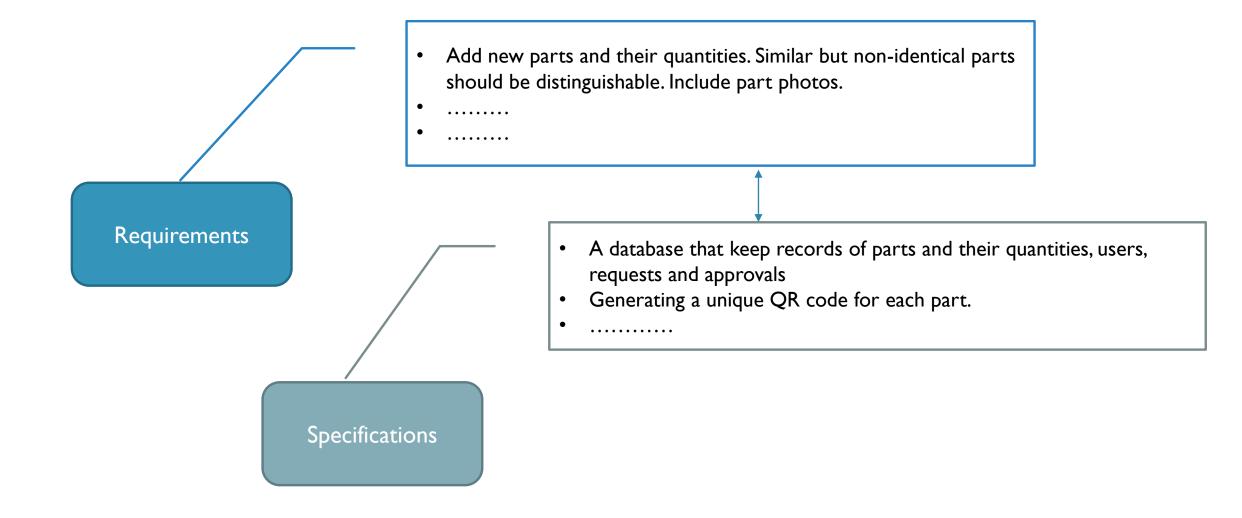
Abdulrahman AlKhiary

Mahdi Mayouf

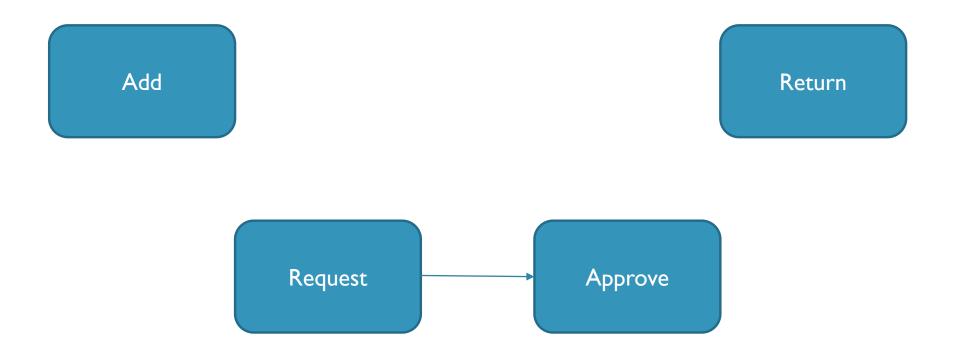
PROBLEM OVERVIEW



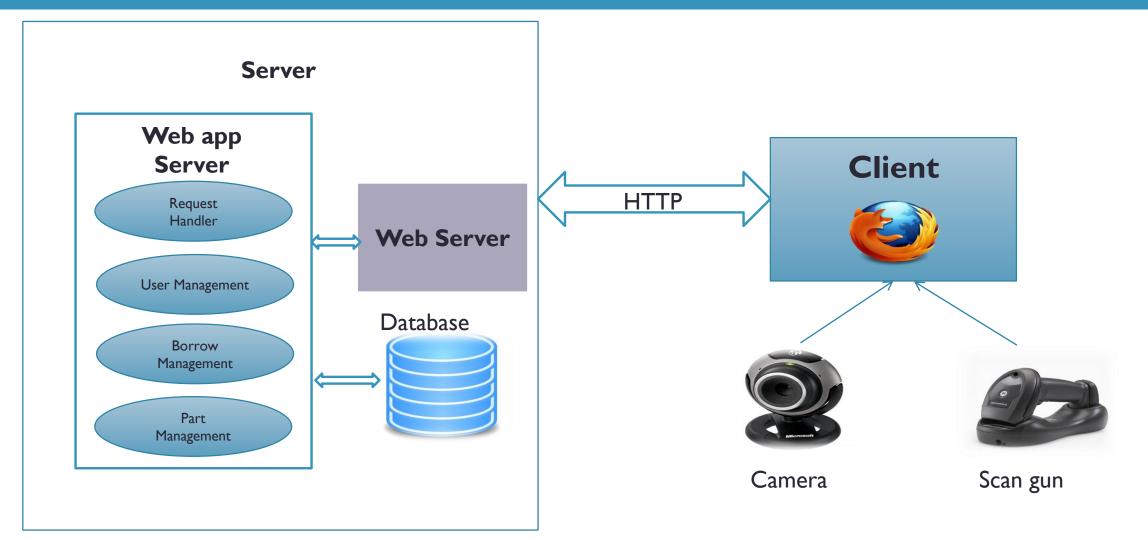
REQUIREMENTS – SPECIFICATIONS



SYSTEM SUB-FUNCTIONS



SYSTEM ARCHITECTURE

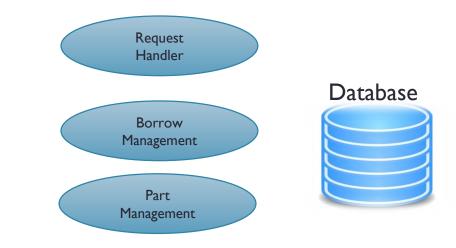


COMPONENTS

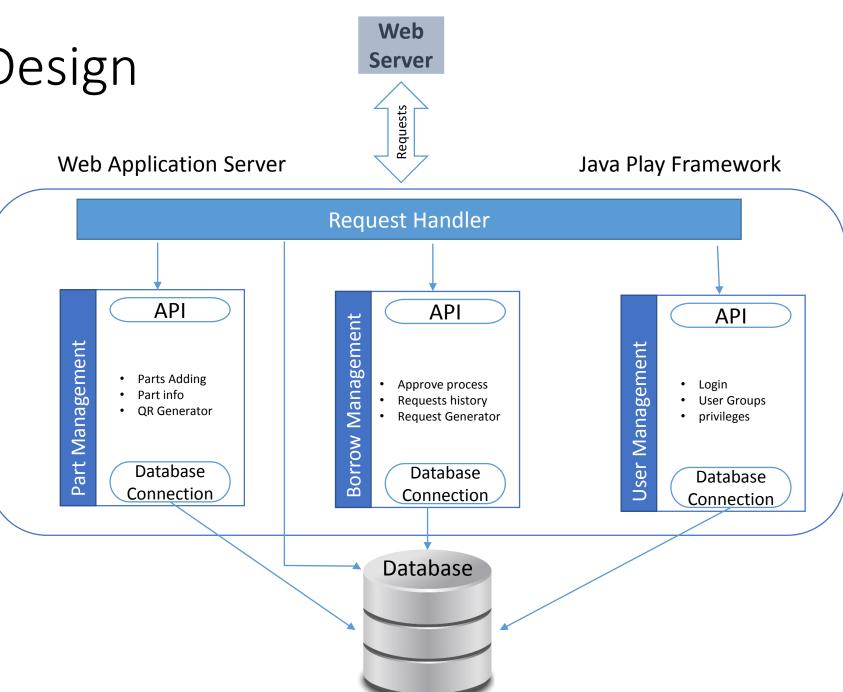
Off-Shelf Components

Hardware components	software components
• Server (workstation)	Web Application server
• Scan gun	• Web server
• Cam	Database server
	 User Management (Through Framework) Client (web browser)

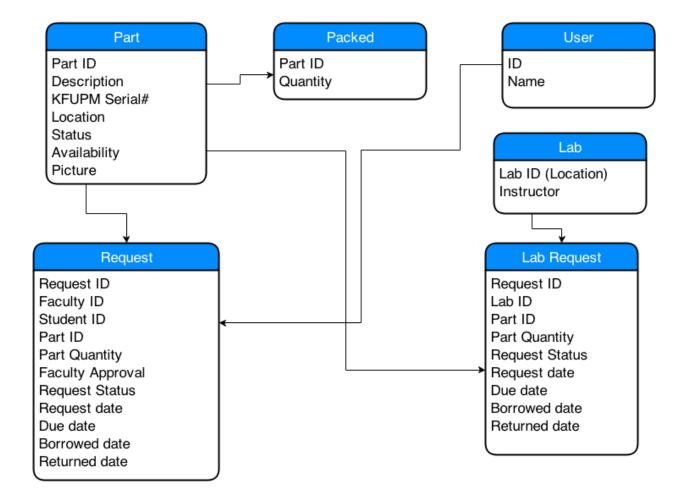
Custom Components



Web App Design



DATABASE DESIGN



DESIGN DECISIONS

Options	web application	Desktop application	
Criteria			
Accessibility	Anywhere	Software-Installed Device	
Development	One system(multiple views)	multiple system	
Installation	One side	Many sides	
Component integration	One environment	Many environment	
System Update	Server side	All workstations	
OS independence	Yes	NO	
Server Load	High	Medium	



Options	Weight	web application	Desktop
Criteria			application
Accessibility	0.3	10	7
Development	0.2	7	5
Installation	0.15	8	5
Component	0.05	7	6
integration			
System Update	0.1	8	5
OS independence	0.15	9	
Server Load	0.05	4	7
Result		8.3	5.15

QUESTIONS

