Architecture Characteristics Worksheet

System/Project:	TAPAS				
Architect/Team:	Group 3			Date: _	21.09.2021
Candidate Architecture Characteristics			Top 3	Driving Characteristics	Implicit Characteristics
	data integrity	deployability	X	1. interoperability	feasibility (cost/time)
responsiveness	data consistency	testability	X	2. fault tolerance	security
	adaptability	abstraction		3. scalability	maintainability
recoverability	extensibility			4. availability	simplicity
		configurability	X	5. workflow	
elasticity	concurrency			6. performance	Others Considered
others:				7.	
			Instructions		
				more than 7 driving characteristics. op 3 characteristics (in any order).	
			•	aracteristics can become driving characteristics deemed structural concerns.	
	characteristics that are related one of these, other system			ional characteristics identified that weren't is important as the list of 7 to the <i>Others</i> and list.	

Justifications

Interoperability	Unified communication with other auction houses is crucial for the execution of external tasks
Fault Tolerance	If a service fails, the system should keep running, such that either external or internal tasks can still be executed.
Scalability	Potentially growing number of users and tasks, which implies an unknown workload. Further the number of executors could also increase substantially.
Availability	As a central scheduling system the system is critical for all business functions and downtime would result in disturbances for the whole business.
Workflow	Critical that task are correctly assigned to executors and processed according to business rules (e.g. capabilities fulfilled) and further actually executed.
Performance	System will contain thousands of users and executors, which implies it needs to be fast enough to handle this load, while still providing good usability.