		test-hw2-Test_Strategy_Botnovskaya		
N₂	Item	Highlights	Descriptions	Questions/Actions
		Document name, ID# and version number	Doc name - hw2, ID# - 1_v1	
		Date of test strategy version	03/14/2019	
	Document	Target audience for the document	Performance101 lectors	
1	Profile	System Name, ID# Author(s) of the document and how to contact them	anelika.bortnovskaya@ab-soft.net, x_anelika_x	
				Lack of system requirements.
			This project is a set of simple services, which partially represent common logic elements of e-commerce systems. It contains 3 Dockerized python apps: - Authentication service - Purduit service	Is the system sold as separate ready-made units for building e-commerce products?
2	System Description	Description of the system under test	-Carl service To access any service uses token. System haven't had UI	Does services have a user interface?
		 Classify intended audience (clients, users, marketers, other interested parties in the test results) 	- customers - users - sales people/marketing	Do we have sales/marketing peope as a users?
	Performance	Define and classify expectations according to audience	business volume, future growth, reliable services, working 24/7, security acces on sensetive data, increased sales, high level users satisfaction,	
3	Test Objectives	Highlight success criteria of the project	Goals ara achieved. Owners/customers are satisfied	
		• Response Time	Average Response Times (ART) - By measuring the duration of every request/response cycle may found out how long it takes the target web application to generate a response. ART takes into consideration every round trip request/response cycle during a Monitoring period and calculates the mathematical mean of all the response times (ms) ART = 80ms	
		- Throughput	Requests per Second (RPS) - RPS is the evaluation of how many requests per second are being sent to a target server. Indicates load of web application currently works under. RPS calculated as a count of the requests received during a measurement period, where the period is represented in seconds. RPS = 20 req/s	
		Resource utilization	CPU utilization - is the amount of CPU time used by the Web Application while processing a request. It is the percentage of CPU usage that is calculated, which indicates how much of the processor's capacity is currently in use by your application. CPU utilization = 50%	
4	Setup KPI fo future SLA creation	Reliability measurements	Uptime - is the amount of time that a server has stayed up and running property, It reflects the reliability and availability of the server and this value should be as large as possible. The value can be calculated as an absolute value or as a percentage of actual server uptime to ideal server uptime. Uptime = 99%	Clarification of the values of KPI after collecting/analysys of prod user data
5	Define thresholds of the system	Thresholds set the minimum and maximum allowable values for each KPI individually	ART - value more than 200ms should lead to attention and more than 300s – to troubling. RPS - value more than 70 reg/s should lead to attention and more than 100 reg/s – to troubling. CPU utilization - value more than 70% should lead to attention and more than 85% – to troubling. Uptime -value less than 99% should lead to attention and less than 95% – to troubling.	Correcting of the thresholds after clarifying KPI values
		- Analyze customer data	To found out what is the most important to customers can be provided online survey, collect analysys data, tracking e t.c.	
	Check system	- Marketing research	Identify competitors, identify the advantages and disadvantages of our system compared to competitors.	
	in order to	- Test the system for extensibility	Identify bottlenecks of system (load, strees testing).	
6	expand new market	- Results	Set up proposals (possible several options with compromises) how to improve the system for entering a new market, with an indication of estimates and budgets.	
7	Collect user metrics from prod	Collecting metrics from prod logs, tracking, production visualization and metrics tools		Refine budget and toolset