Performance Test Plan Template	Revision 28/06/2021
Purpose:	We will try to verify if the Reddit application can endure a normal and anticipated use of user. We will keep an eye on the response times and the error rate.
Website Description:	Reddit is a community website for discussion and social news. Thus, the most popular links of the moment are displayed on the homepage. Its community is gathered around a culture specific to the history of the site and the Internet in general.
Performance Criteria	
Goals:	With Load Testing we will try to verify if the application can endure a normal and anticipated use. We will keep an eye on the response times and the error rate.
Test Type:	**Loading Test** The purpose of this test is to determine the number of simultaneous and/or anticipated users that the system can support without experiencing significant service degradation.
Failure Criteria:	A test run will be considered “failed” if any of the following conditions are met: • The application does not handle the required amount of load, generating errors or performance issues and response times. • Loose of Reddit’s accessibility to customers
Validation Criteria :	A test run will be considered "Pass" if one of the following conditions is met: • The error rate should be below 5% • Response time should not vary and be stable
Technical Requirements	
Environment:	Programming Language: • Python HTTP Server Technologies: • NGINX / HAProxy Server Libraries: • Pylons Databases and NoSQL Datastores: • MemCached / PostgreSQL / Cassandra Server Software: • RabbitMq Cloud/Hardware Infrastructure: • Amazon Web Service

	3rd Party APIs/Services: • STRIPE
Credentials:	
Telemetry:	We need to measure some metrics: ● CPU/Memory/Disk usage ● Error rate ● Response Time
Load Profile	
User Lifecycle:	Only registered users and logged users have access to the file downloader system. Steps: ● Home page (Large volume of data received/low volume of data sent). ● Login or registration (low volume of data received and sent). ● Search on reddit the publication r/france (large volume of data received and sent). ● Click on the discussion (large volume of data received and sent)
Concurrency:	The number of users will normally stagnate and lead to a search rate equal to the number of users.
Post-Test Analysis	
Data collection:	
Reporting:	
Summary:	