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## End-to-End testing of Digital Payment Gateway for a Fintech company in Switzerland

### **BUSINESS SCENARIO:**

Our client has been providing collection and exchange services to e-commerce merchants, multinational corporations and financial intermediaries around the globe. Their sole focus is on regulated businesses with a need for effective compliance procedures. They have been catering to public-listed companies, licensed companies, game operators, digital marketplaces, asset managers and many more along their banking partners.

After acquiring certification for anti-money laundering, they witnessed a significant increase in transactions on their online gateway. They faced difficulty in providing a seamless experience to their users and data security were very high on their agenda. After an extensive search on a suitable technology partner, they found Cygnet's Testing services and decided to test their application using our highly robust testing practices.

Cygnet's testing services to help solve the security issues involved:

- End-to-end testing for their existing website to ensure security check and smooth performance
- Ensuring accurate and fast authentication process

- Focus on quality assurance than quality control for Security reasons
- Along with QA, additional Estimation Services were required for a sensitive project
- Different types of testing to be performed to ensure smooth performance
  - Functional Testing
  - Integration Testing
  - System Testing
  - Automation End to End Testing
  - Performance Testing

## PROJECT DETAILS

- **Customer Size:** Small Organization
- **Country:** Switzerland
- **Domain:** Finance (Crypto Payment Processing- Bitcoins)
- **Solution:**
  - **Technology:** AngularJs, Java with SprintBoot, PostgreSQL
  - **Tools:** Docker, Jenkins, Bitbucket, Jira
  - **Methodology:** Agile - Scrum

## CYGNET'S SOLUTION:

Considering stringent norms associated with the client's line of business, it was imperative Cygnet focused a great deal on the security aspects while testing the application. After a thorough understanding of the requirements, Cygnet QA worked in the project dealing with multiple types of testing processes, improving authentication methods, making the website abide to AML laws. Following are the focused key areas by Cygnet team.

- **Different Types of Testing:** Understanding the dynamics of the project, Cygnet team performed end-to-end testing to reduce number of issues and ensure smooth performance. Different types of tests included Functional test, Smoke test, Sanity Test, UI test and many more from which some are explained below.
  - **UI Testing:** Since the developed payment gateway is a global platform, it is necessary to ensure all of them can operate the product smoothly without any help of issue irrespective of the geographical location. Thus, Cygnet team ensured the UI is bug free up to minute details.
  - **Compatibility Test:** Compatibility test was performed to make sure the portal can bring customer satisfaction. Keeping the international audience in mind, different

## CLIENT'S PROFILE:

Our client is a Switzerland based registered financial intermediary which provides services related to AML- compliant digital cash transaction. They are committed to making digital cash ecosystem compliant and secure. Its currency platform bridges the gap between digital currency and traditional financial services. The venture has been recognized for its high security standards in processing cross border transactions.

environments were created to determine if the product is good enough to run in a wide range of browsers and devices. While staging the environment, tests were performed focusing on different browsers, database, hardware, operating system, mobiles and other devices etc.

- **Regression Test:** The product deals with payment processes that also including Bitcoin, so the information needed to be updated along with a smooth payment check out process. After solving each sprint, regression test was performed throughout the system to ensure no major bugs are left behind. Once the application health is ensured, while regression testing, QA consulted with Compliance, Business, Accounts team and the client as well to confirm the facts and updates.
- **Preparing for AML compliance:** Cygnet QA helped validate and verify the product that abides all the AML- compliance laws of Swiss government. With Bitcoins into the picture, it is necessary to put the security concern on the top priority list. Ensuring no rules are broken and no loopholes exist that can lead to breach the security. The process was very important as well as difficult.
- **Designing the System:** While planning and strategizing the new development, important aspects focused on were making application compliance ready, adding the Bitcoin Trade modules, introducing the E-Billing services, etc.
- **OTC Exchange:** While trading with Bitcoins and enabling OTC exchange, in order to make digital transaction, identity of users must be confirmed for authentication. Once the transaction is complete, the process goes through six confirmation policies to verify all the details. Cygnet QA looks over the confirmation process closely to each transaction that is made through this payment gateway to ensure there are no loopholes after each release.

## **BENEFITS TO THE CLINET:**

- All the information remains highly secured
- Smooth Payment process led to satisfaction in customers
- End-to-End test coverage for Bitcoin-Cash transactions
- Quality controlled Performance and better User Experience
- Secured Payment options



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