



CYGNET.ONE

Success Story

Elevated the Client's Testing Environment through Comprehensive Quality Engineering Services

Digitalizing security in US

Our client, in collaboration with a diverse network of retail partners, offers interest-free credit solutions to consumers. By implementing Cygnet's testing services, the client achieved a 3-minute checkout and automated collection with a debt recovery system. The platform is a streamlined application process, combined with a quick decision-making system, which enables customers to choose cost-effective payment plans without any hidden fees. Additionally, its platform allows users to conveniently use a single account across a wide range of retail partners.



Transforming manual operations into digital processes

The organization grappled with challenges, including redundant testing efforts across multiple environments, incomplete sprint items, and the migration to Angular 15 for the entire front end to accommodate a growing user base. These obstacles necessitated efficient planning and communication to ensure project success and maintain application quality.

The key challenges client faced:

- Existing Testing Process:
 - » Initial testing on the Feature Branch
 - » Testing on the Sprint Branch
 - » Incomplete items at the conclusion of sprints
- Lack of direct communication between the customer support team and the quality engineering team
- Difficulty aligning the team with important sprint items that couldn't be postponed to the next sprint



Preparing for the future

A new regression strategy was implemented to enhance testing efficiency and responsiveness to critical risks affecting customers. This strategy adopted a Risk-Based Testing approach, prioritizing modules with potential high-impact risks. For stable modules with minimal changes, regression checklists were introduced, encompassing scenario-based versions of relevant test cases. Redundant test cases within the regression suite were meticulously removed to streamline the process. In complex modules, the team executed refined test cases, selected based on insights provided by the development team regarding affected areas and code-related impacts. A new workflow was established, allowing the release and testing of feature branches to see if they carried significant merging risks for the DEV branch; otherwise, features and fixes were directly released to the DEV branch. To optimize resource allocation, historical sprint data was leveraged for insights-driven decision-making, reserving bandwidth to accommodate potential overestimations and unforeseen items, ensuring that available resources could always be efficiently utilized for backlog items. This approach aimed to make the testing process more targeted while effectively managing risks and improving overall efficiency.





Benefits



55% reduction in testing time

Achieved a 55% reduction in regression testing time, resulting in overall testing timeline education, enabling us to consistently meet planned release dates.



70% faster resolution

The 70% faster defect resolution ensured smoother operations and faster product enhancements.



40% reduction in code volume

Achieved 40% reduction in code volume with the upgrade to Angular 15 Frontend Release. This reduction in complexity streamlined development and lowered maintenance costs.



Test execution phase

Maintained traceability in both forward and backward directions, connecting requirements to test cases and recording defects.



Reduction of redundant QA efforts by up to 60%

Streamlining quality assurance tasks resulted in a 60% decrease in duplicated efforts. This enabled the organization to focus on more important aspects of their business.



About the Client

The client is a preeminent provider of physical security management solutions, serving as a vanguard for enterprises and security integrators in their endeavor to conceptualize, implement, and manage security infrastructure projects. Their solution is a digital revolution in the methodologies employed by integrators and security directors for constructing and sustaining physical security ecosystems. This groundbreaking innovation empowers security enterprises to elevate their operational procedures, transcending the traditional reliance on antiquated drawings and spreadsheets riddled with obsolete data



CYGNET.ONE

Cygnnet Infotech is dedicated to excellence and is re-evolving as CYGNET.ONE to help consolidate its specialized offerings in Compliance transformations, Digital & Quality Engineering, Enterprise Modernization, Data, AI & Analytics Hyper Automation, Test automation, Digital signature, and a myriad of other offerings across Americas, the UK & Europe, Africa, the Middle East, and the Asia Pacific. Through Cygnnet Cosmos, our digital transformation framework, CYGNET.ONE empowers organization to achieve business process digital transformation through co-ideation, co-creation, co-innovation, and co-evolution. With a global presence spanning across diverse markets and industries, Cygnnet One serves as a one-stop destination for intelligent solutions, delivering value from ideation to execution, ultimately driving success for clients and partners worldwide.



CO-IDEATE

Co-Ideate for new product development & new market GTM



CO-CREATE

Co-Create technology enabled connected business solutions



CO-INNOVATE

Co-Innovate intelligent solutions with Cygnnet launchpad.



CO-EVOLVE

Co-Evolve with a strong continuum of Cygnnetians, clients, & partners.

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