**HACKATHON PROJECT**

TOPIC – IDENTIFY COURSES (COURSERA)

**RETROSPECTIVE DOCUMENT**

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|  | Prepared By | Reviewed By | Approved By |
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| Role | PATs | Batch Trainer |  |

**What Went Well in the Hackathon?**

* As entry-level trainees at Cognizant, being given a model project through the Hackathon was a valuable and motivating experience. It provided us with a practical opportunity to apply our learning in a structured and goal-oriented environment.
* We closely followed the Hackathon guidelines as outlined in the PowerPoint presentation shared by our cohort trainer. By aligning our weekly deliverables with the suggested format, we were able to stay on track and submit our Hackathon idea on time.
* During the Hackathon, we successfully implemented a **Hybrid Automation Framework** as per the given requirements. This included integrating multiple testing strategies and tools, which enhanced the robustness of our solution.
* Prior to the Hackathon, we had limited exposure to the **Hybrid Framework**, especially the **Page Factory** concept within the **Page Object Model (POM)**. The Hackathon enabled us to explore and apply these concepts effectively.
* In our training phase, we only worked with a **Data-Driven Framework** for our case study project. However, the Hackathon challenged us to go beyond and implement a more advanced **Hybrid Framework**, which broadened our understanding of automation architecture.
* During the Hackathon, we expanded our automation capabilities by implementing **Behavior-Driven-Development (BDD)** using **Cucumber** integrated with **Selenium Grid**. This allowed us to write human-readable test scenarios and execute them across multiple browser instances in parallel. It was a significant step forward in understanding scalable test execution and collaborative testing practices.

**What Can Be Improved in the Hackathon?**

* **Subject Matter Expert (SME) Involvement**: Regular check-ins or reviews by SMEs based on weekly deliverables would help ensure that teams are progressing in the right direction and adhering to best practices.
* **Access to Cognizant Frameworks**: As PATs, having access to Cognizant’s internal automation frameworks for practice would be highly beneficial. It would better prepare us for real-world scenarios and ease our transition into full-time roles.