K V KALYANA KARTHEEK

QUALITY ENGINEER

CONTACT

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in K V Kalyana Kartheek

SKILLS

- Selenium
- Java
- .Net
- SQL
- Cypress
- Serenity
- Framework Set-Up
- Reporting
- Git
- Cucumber
- Automation Testing

WORK EXPERIENCE

PalTech

Job Position - Software engineer

Role - Quatily Engineer

Experience - 2 years

Duration - Feb 2023 - Present

EDUCATION

HIGH SCHOOL:-

Senior Secondary School Sec-10 (CBSE) :- 5.6

INTERMEDIATE:-

Amresh Sharma Public School (CBSE):-5.4

BACHELOR OF TECHNOLOGY:-

Lendi Institute of Engineering and Technology (Autonomous) :-7.5 (Current)

PROJECTS

Project Name: Data Migration Testing
May 2023 - Jul 2023

Description: Developed a Proof of Concept (POC) for a Python-based framework to validate the integrity and completeness of data during migration processes. The framework was designed to automate the comparison of source and target data within a local database environment, ensuring that all data was transferred accurately.

Key Responsibilities & Achievements:

- Designed and implemented a Python POC framework to automate data migration testing, ensuring data integrity within a controlled local database environment.
- Utilized Python's built-in libraries, such as pandas for data manipulation and openpyxl for Excel file handling, to facilitate data extraction and comparison.
- Developed a system to input database credentials via an Excel sheet, enabling the framework to dynamically connect to local databases, execute SQL queries, and retrieve relevant data.
- Automated the identification and reporting of lost or mismatched data by exporting discrepancies to a separate Excel file, streamlining the testing process.
- Addressed the challenge of identifying Primary Composite Keys, crucial for accurate data comparison across complex tables, by implementing advanced query logic.

Project Name: HRMS Automation
Aug 2023 - Jan 2024

Description: As a core member of the team, contributed to the development of a robust automation framework for an HR Management System (HRMS) to enhance the efficiency of testing processes. This project involved writing manual test cases, identifying critical bugs, and creating a comprehensive automation solution from scratch using C# and SpecFlow. The framework was integrated with NUnit and Cucumber for behavior-driven development (BDD), and included advanced reporting capabilities with Extent Reports.

Key Responsibilities & Achievements:

- **Manual Testing**: Authored detailed manual test cases to ensure comprehensive coverage of HRMS functionalities, leading to the discovery of major bugs, including a critical issue where Leave Encashment was not updating when leaves were canceled.
- **Framework Design**: Designed and developed a custom automation framework from scratch using C# and SpecFlow, facilitating efficient and scalable test automation.
- **Integration with NUnit and Cucumber**: Successfully integrated the framework with NUnit for unit testing and Cucumber for BDD, enabling more readable and maintainable test cases.
- **Automation of Test Cases**: Automated the manual test cases, significantly reducing the time required for regression testing and improving overall test accuracy.
- **Version Control**: Utilized Git for version control, ensuring efficient collaboration and version management across the team.
- **Enhanced Reporting**: Integrated Extent Reports into the framework, with features to automatically capture and include screenshots in the report whenever an error occurred, providing detailed and actionable insights for faster issue resolution.

Project Name: Doctor Care Anywhere (DCA)
Feb 2024 - Present

Description: Worked on automating existing test scripts for a healthcare company project, enhancing test efficiency and framework usability. The project utilized Serenity with Java for test automation, Azure for pipeline execution (though not directly involved in deployment), Testrail for test case management, and Confluence for documentation. Executed pipelines to ensure smooth test operations and reporting.

Key Responsibilities & Achievements:

- Suggested Framework Updates: Proposed updates to the automation framework to improve reusability and maintainability, ensuring that the framework could be easily reviewed and archived for the client.
- Automated Repetitive Tasks: Streamlined manual processes by automating repetitive tasks, improving efficiency and reducing manual effort for the team.
- Optimized Pipeline Execution: Reduced pipeline execution time not only through parallel runs but by creating independent users to avoid dependencies and enhance execution speed.
- Enhanced Framework Robustness: Collaborated with developers to refine the API interactions, making the framework more robust and reliable.
- Created JAR Files: Developed and provided JAR files containing reusable methods, facilitating faster development and integration for the team.
- Owned Web Framework: Took full ownership of the Web Framework, including maintenance and enhancement.
- Client and Team Training: Conducted training sessions for both the client and internal team on framework usage and how to trigger pipelines effectively.
- Met Deadlines and Added Value: Consistently met project deadlines while contributing additional enhancements and improvements to the framework and processes