



Kuder provides career guidance solutions at all life stages. They encourage the collaboration between education, business, and community stakeholders to drive economic success. Kuder's mission is to be the global authority in career guidance and education by providing evidence-based and proven tools to navigate life's journey. Their resources help to raise aspirations to last a lifetime.

### Objective

Develop a robust automation framework to ensure coverage of UI and functional scenarios for the web application products in a Microsoft environment.

### Design

- Page object model design technique to reduce duplication of code and easy to maintain.
- Modular structure design with reusable, constant, data providers adhering to object oriented programming techniques.
- NUnit framework to execute multiple test methods using NUnit annotation

### Implementation

- Data driven framework to maintain huge data rows pass through spreadsheets.
- Detailed reports generated displaying execution status with relevant screenshots
- Supports cross browser and multiple environment execution.
- Source code merged to GitHub to manage versioning.



### Technologies Used

Selenium Webdriver  
Visual Studio  
GitHub

### Efficiencies Achieved

BVT executed with each build to ensure the build deployed didn't break the environment.

Application stable after each deployment of DB upgrade or DB migration.

E2E regression suite execution time reduced the effort to about

50%

Reduced leakage of defects into UAT and production