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| Computer Database Application- Test Approach |
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# Test Approach

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| **System / Application Under Test** | Computer Database Application - <http://computer-database.herokuapp.com/computers> |
| **Testing Scope** | CRUD operations (create, search, update and delete computers from the database) via the UI only.  Testing of the backend operations is implicitly covered by the UI tests |
| **Testing Techniques** | * + Exploratory   + Scripted Manual Tests   + Automated Regression Tests using Nightwatch for test scenarios validating core functionality of the application |
| **Recommended Testing Types** | * + Unit Tests   + Integration Tests (including API testing)   + System testing across supported browsers/devices   + Availability Tests   + Performance Tests |
| **Test Conditions** | To cover CRUD operations - create, search, update and delete computers from the database and edge scenarios |
| **Entry Criteria** | All Unit and API tests have passed  Test environment is available |
| **Exit Criteria** | * + No outstanding medium and high severity defects   + All System Tests have passed/passed with exceptions |
| **Test Environment** | <http://computer-database.herokuapp.com/computers> |
| **Assumptions** | * + Automated API tests exist and are run as part of the CI pipeline to verify that the backend is tested independently from the UI   + Relevant telemetry metrics (for e.g. Business Transaction Response Times, Query Performance etc.) defined and agreed and suitable platform to manage these metrics exist   + The application is intended to be used on a combination of desktop, mobile and tablet browsers.   + Chrome on desktop is the primary browser for regression test automation |