

# Group 5 Testing Plan

Our group has elected to focus on IBM's orthogonal categories of faults for our unit testing, implemented through a top-down approach. For the higher-level categories of function and unit testing we plan to take a black-box approach, feeding inputs, and verifying the interfacing of our components is fault-free. The following fault categories will be tested with a white-box approach: data checking, algorithms, data structures, and build/repositories. Each category has been listed in chronological order, consistent with our planned timeline. During data checking we will ensure our units check for proper data types during input, for algorithm and data structure testing we ensure our algorithms are logically sound, and both algorithms and data structures are lexically and syntactically correct. During build testing we will ensure our repositories are providing valid data. Finally, our testing will be completed with acceptance testing. Our group will perform an Alpha test ourselves, then invite family and friends to help us complete the Beta testing.