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## Functionality/Regression Testing for Online Tax Filing Product

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### Overview

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- Client required a stable, low defect release of online Tax Filing Product.
- Employed Advanced Test Design using Logic Modeling methodology for Identification of defects in functional documentation to minimize scrap & rework.
- The level of test coverage produced by Logic Modeling exposed the need for an improved and expanded test environment to simulate a true production environment, specifically for eFile testing.
- No production defects were reported against modules subjected to Logic Modeling practices for 3 months.

### Profile

A leading tax preparation company.

### Business Issue

Required a stable, low defect release of online Tax Filing Product. Defects in online product had generated adverse user reaction. Client needed to quickly improve quality & test coverage to assuage user concerns.

### UST Approach

Employed Advanced Test Design using Logic Modeling methodology for:

- Identification of defects in functional documentation to minimize scrap & rework.
- Maximum coverage of the application with minimum number of test cases.

Automated design of test cases:

- Ensured test cases are reusable.
- Maintained a library of Logic Models that can be modified based on changes to logic in future releases.

### Benefits

- Several functional requirement artifacts were re-authored, vastly improving clarity for test and development staff.
- The level of test coverage produced by Logic Modeling exposed the need for an improved and expanded test environment to simulate a true production environment, specifically for eFile testing.

### Advanced Test Design methodology

- Accounted for 150% increase of reusable test cases.
- Was implemented by a team 75% smaller than those involved in intuitive decomposition testing and accounted for 70% of the test cases executed for the total development/QA life cycle.
- No production defects were reported against modules subjected to Logic Modeling practices for 3 months (including “1st Peak” usage for the tax year).