David Wemhoener, Ki Yung Chan, Hui Chen, Dan Stubbs, Nicholas Conlon, Peng Gao, Wei Lin, Duane Bailey, Kyle Hughes

# AutoAdvisor Test Package Information

## Purpose

AutoAdvisor takes advantage of the automated testing mechanism built into Ruby on Rails. Blank test files are automatically generated during development and are organized in the app/test/ folder. Unit tests cover models, functional tests cover controllers, integration and performance tests cover the combination of models, views, and controllers.

## Commands:

- Print out a code:test ratio matrix: 'rake stats'
- Run all unit, functional, performance, and integration tests: 'rake test'
- Run all unit tests (tests models): 'rake test:units'
- Run all functional tests (tests controllers): 'rake test:functionals'

## Testing

Testing should be done as often as possible, but at a minimum, tests should be done before a push to github, as well as before a push to the production server. All developers on the AutoAdvisor project are responsible for creating tests for their specific components.
Goals:
- At least 1 unit test per controller function.
- At least 1 unit test per model.
- At least 1 integration test per view.

A few things to keep in mind:
- As requirements evolve, tests should too.
- Look back on use case scenarios from the SDS document when writing tests for client side components.
- Tests that are written/generated in a standard form should be kept in the autoadvisor/tests/ folder.
- Lines of code/tests and code:test ratio can be seen with 'rake stats'. We should strive for

a ratio above 1:1
- A Guide to Testing Rails Applications has a lot of good information (see resources).

## Most recent results

- Tests passing as of 05/01/2012
- Unit tests: 16/16
- Functional tests: 7/8
- Integration/performance tests: 2/2

## Documentation

To report an issue associated with testing, please use the GitHub issue tracker (see resources).

## Resources

- A Guide to Testing Rails Applications URL: http://guides.rubyonrails.org/testing.html
- Bug reporting guidelines URL: https://github.com/Auto-Advisor/autoadvisor/wiki/bug-reporting
- GitHub issue tracker URL: https://github.com/Auto-Advisor/autoadvisor/issues