Title: Towards an Approach for Improving Exploratory Testing Tour Assignment based on Testers’ Profile

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1. Approach and motivation
   1. Approach:
      1. A group of 60 testers was interviewed to gather information about their education level, expertise, computational knowledge and preference among those tours considered in the tourist metaphor. The idea is to raise correlations between this information in order to develop a test recommendation system.
      2. The development of a questionnaire for tester’s profile identification;
      3. Experimental study on the relationship between the testers’ and their efficiency in the application of tours in the context of Exploratory Tests with the Tourist Metaphor; • Data analysis to support the definition of a Recommendation System for automatic assignment of test tasks with the Tourist Metaphor.
      4. A diagram of a diagram

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   2. Motivation:
      1. Software testing is an arduous and expensive activity. […] However, optimizing the allocation of manual test cases is not a trivial task: in large companies, test managers are responsible for allocating hundreds of test cases among several testers.
2. Aim of the tool and novelty
   1. Aim:
      1. This study aimed to identify profiles of testers to support the creation of a test task recommendation system based on the Exploratory Testing approach with the Tourist Metaphor. For this, we sought to gather as much relevant information as possible to assign test tasks based on the profile of the testers
   2. Novelty:
      1. This study raises a valuable discussion about a humanized process of assigning test tasks in order to generate data for the definition of a recommendation system for automatic assignment of test tasks based on the profile of each tester. In addition to testing tasks, this strategy can be extended to development contexts, given that the profile of each developer, and tester, can also influence the effectiveness of the activity and the degree of satisfaction of the developer.
3. How the tool was validated
   1. Table 1 shows the results of the tours most used by students involved in the dynamics of Tests. The most used one was the anti-social tour, done by 50 of the 60 students who participated in the dynamic. This tour had already been noticed in the work of (Blinded Author(s), 0000), which presents a number of tests and failures identified by tour, and reports the creation of a process for validating services produced by digital transformation.
   2. A table with numbers and text

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