SE 420

Software Quality Assurance

Research Topics

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1. Mobile Device Testing for Applications
   1. How to test and assure quality on range of devices (varying screen sizes, resolutions, hardware, signal quality, etc.)
   2. Support for database synchronization between multiple and concurrent users, or multiple instances of the same user.
   3. Process for ensuring application updating ensures user retention
2. User Interface Testing
   1. How a GUI should be tested
   2. What would be the optimal way to test a GUI
   3. What parameters can/should a GUI be tested on
3. Load Balancing for Cloud Services
   1. How to test and protect the cloud database from an influx of users, or large amount of reads/writes
   2. Process to control transactions to the database, to ensure data integrity and consistency.