1. Funtional testing (main focus: validation of functional requirements)
   1. requirements and specifications of the system are examined
   2. tester chooses valid inputs to test if application under test processes them correctly
   3. tester chooses invalid inputs to verify that application under test is able to detect them
2. Non-functional testing (performance, scalability, usability)
3. Regression testing (after code fixes, upgrades or system maintenance)

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| --- | --- | --- | --- |
| **No** | **Test script** | **Expected result** | **Actual outcome** |
| **FUNCTIONAL TESTING** | | | |
| 1 | User registration: select "Register" button | A registration screen comes up, user types username and password and registers | When "Register" button is selected, user is asked to enter their email as username and password and register |
| 2 | User authentication: login by using previously registered username and password | User is logged in, as they enter the correct username and password | User is logged in |
| 3 | Access to the system only if username and password is provided: user attempts to login by only entering a username | Login is prohibited, they are asked to enter both | We need to create a validation not to login if only email is provided and no password |
| 4 | System shall remember user credentials if user chooses it. | It remembers it and "Remember me" box is ticked every time until unticked | When user opens app, credentials are already typed in and the "Remember me" box is ticked |
| 5 | Periodically update GPS location, time |  |  |
| 6 | System shall provide place description and reviews |  |  |
| 7 | System shall enable user to add review to places |  |  |
| 8 | System shall enable user to add new places |  |  |
| 9 | System shall allow user to check in |  |  |
| 10 | System shall display places in X radius |  |  |
| 11 | System shall display other user locations within X radius |  |  |
| **NON-FUNCTIONAL TESTING** | | | |
| 12 | Interoperability: Concurrent user login |  |  |
| 13 | Interoperability - Application works on all android devices: application tested on smartphones and tablets | Application runs and functions satisfactorily | Application functions equally well on both devices. |
| 14 | Interoperability: Application works on all software versions of android |  |  |
| 15 | Usability - Ease of use: observe the first interaction of two new users with the application | Buttons and functionality obvious | User understands easily how application works |
| 16 | Usability: user friendly design |  |  |
| 17 | Reliability: consistent performance |  |  |
| 18 | Reliability: accurate data provided |  |  |
| 19 | Scalability: cope with increased volumes of users without compromising on performance |  |  |
| 20 | Security: unique user identification |  |  |
| 21 | Security: user verification always required |  |  |
| 22 | No data loss allowed |  |  |