TODO List Manager on Steroids
Test Cases Document
Team 3.09

1. Introduction

The goal of the project is to extend the existent TODO List Application on Android to a Web application and to provide sync functionalities between the Android and the Web application, thereby enhancing the user-experience.

2. Quality Control

2.1 Test Plan Quality

The application will be rigorously tested by all 4 members of the team. During the testing process the team will follow a comprehensive test plan, which will aim to cover all aspects of the application both on the Android platform, Web platform and the sync feature between both, that is prone to have errors. The test plan will also ensure that all the functional requirements specified by the customer are met. The quality of the test plan will be measured by the coverage and the number of defects it helps isolate.

2.2 Adequacy Criterion

The adequacy criterion depends on the extent to which the test cases made are successful in debugging the program code. The test plan coverage is complete satisfying all requirements. All defects should be addressed and must be successful in the successive iterations.

2.3 Bug Tracking

The bug tracking will be carried out by using a shared Google spreadsheet so that it could be easily collaborated. The bugs need to documented and fixed properly.

3. Test Cases

The Test cases that we formulate to test the program form the basis of the whole testing phase. These parameters are the ones against which the code can be verified. The code should be able to withstand any arbitrary inputs without failing or crashing. The test cases we plan to test are as follows:

Sl. No	Category	Test Case	Expected Result	Actual Result	Pass/ Fail	Severity
1	User Creation - Android	Creating a new valid user	New user is created			
2		Creating a new user with same name as an existing user	Error should be reported and new user is not created. Should prompt the user to use a different username			
3		Creating 100 distinct usernames	100 users should be created without any issues			
4		Creating user with empty username and password	Appropriate error message to be displayed saying invalid username or password accordingly			

5		Logging in the application with correct credentials	User should be logged in and user-specific task list needs to be displayed			
6		Logging in the application with incorrect credentials	User should not be logged in and error should be reported saying incorrect password/ username accordingly			
7	User Creation - Web	Creating a new valid user	New user is created			
8		Creating a new user with same name as an existing user	Error should be reported and new user is not created. Should prompt the user to use a different username			
9		Creating 100 distinct usernames	100 users should be created without any issues			
10		Creating user with empty username and password	Appropriate error message to be displayed saying invalid username or password accordingly			
11		Logging in the application with correct credentials	User should be logged in and user-specific task list needs to be displayed			

12		Logging in the application with incorrect credentials	User should not be logged in and error should be reported saying incorrect password/ username accordingly			
13	User Deletion - Android	Deleting a user account	User account should be deleted including the user specific task lists.			
14		Trying to Login with the deleted user credentials	User should not be logged in and error should be reported saying incorrect username accordingly			
15	User Deletion - Web	Deleting a user account	User account should be deleted including the user specific task lists.			
16		Trying to Login with the deleted user credentials	User should not be logged in and error should be reported saying incorrect username accordingly			
17	Task Creation - Android	User tries to add a task using the task name, priority and	Task should be created and displayed			

			due date				
18		User tries to add a task only by using the task name	Task should be created with default priority, due date and displayed				
19		User tries to add a new task with the same task name, priority and due date	Task should not be created and should report an error saying duplicate task				
20		User tries to add a new task with the same task name but different priority and due date	Task should be created and displayed				
21	Task Check-off - Android	User checks off a task	Task should be removed from the pending task list and sent to the completed list. However the task should be still present on the all task list				
22	Task Edit - Android	User edits a task	The edited parameters should be reflected overriding the pre-edited version				

23		User edits a completed task to pending task	The task should be removed from the completed task list and sent to the pending task list			
24	Task Delete - Android	User tries to delete a task	The task is deleted and should be removed from the all, pending and completed task lists			
25		User tries to mark a list of tasks and delete them	All the marked tasks should be deleted and should be removed from the all, pending and completed tasklists			
26	Task Auto-save - Android	User edits/add a task. Fills in the taskname and in the process, presses the back button	The task should be saved with default priority and due date in case of new task and with the existing parameters along with the edited portions in cases of an existing task			
27	Task Creation - Web	User tries to add a task using the task name, priority and	Task should be created and displayed			

		due date				
28		User tries to add a task only by using the task name	Task should be created with default priority, due date and displayed			
29		User tries to add a new task with the same task name, priority and due date	Task should not be created and should report an error saying duplicate task			
30		User tries to add a new task with the same task name but different priority and due date	Task should be created and displayed			
31	Task Checkoff - Web	User checks off a task	Task should be removed from the pending task list and sent to the completed list. However the task should be still present on the all task list			
32	Task Edit - Web	User edits a task	The edited parameters should be reflected overriding the preedited version			

33		User edits a completed task to pending task	The task should be removed from the completed task list and sent to the pending task list			
34	Task Delete - Web	User tries to delete a task	The task is deleted and should be removed from the all, pending and completed tasklists			
35		User tries to mark a list of tasks and delete them	All the marked tasks should be deleted and should be removed from the all, pending and completed tasklists			
36	Task Creation - Sync	User creates a new task in the mobile application and presses the sync button on mobile application	The task is added to both the mobile and the web application			
37		User creates a new task in the mobile application and opens the web	The task is added only to the mobile application. The task is not added on the web application			

		application				
38		User creates a new task in the web application and presses sync on the already started mobile application	The task is added to both the mobile and the web application			
39		User creates a new task in the web application and restarts the application	The task is added to both the mobile and the web application			
40		User creates a new task in the web application and the mobile application is alread started	The task is added only to web application. The task is not added on the mobile application.			
41	Task Edit - Sync	User creates a new task on mobile application, presses sync on mobile, edits the task on the web application	The task is added to both the mobile and the web application. The edited task is seen only on the web application. The mobile shows the stale version.			

42		User creates a new task on mobile application, presses sync on mobile, edits the task on the web application and presses sync on the mobile application	The task is added to both the mobile and the web application. The edited task is updated on both the mobile and web applications.			
43		User creates a new task on mobile application, presses sync on mobile, edits the task on the web application and restarts the application on the mobile	The task is added to both the mobile and the web application. The edited task is updated on both the mobile and web applications.			
44		User creates a new task on web application, presses sync on mobile, edits the task on mobile application	The task is added to both the mobile and the web application. The edited task is seen only on the mobile application. The web application			

			shows the stale version.			
45		User creates a new task on web application, presses sync on mobile, edits the task on mobile application and presses sync on the mobile application	The task is added to both the mobile and the web application. The edited task is updated on both the mobile and web applications.			
46		User creates a new task on web application, presses sync on mobile, edits the task on mobile application and restarts the mobile application	The task is added to both the mobile and the web application. The edited task is updated on both the mobile and web applications.			
47		User creates a new task on web application, presses sync on mobile, edits the task on web application and presses	The task is added to both the mobile and the web application. The edited task is updated on both the mobile and web applications.			

		sync on the mobile application				
48		User creates a new task on web application, presses sync on mobile, edits the task on web application and restarts the mobile application	The task is added to both the mobile and the web application. The edited task is updated on both the mobile and web applications.			
49		User creates a new task on web application, presses sync on mobile, edits the task on web application and restarts the mobile application	The task is added to both the mobile and the web application. The edited task is seen only on the web application. The mobile shows the stale version.			
50	Task Deletion - Sync	User creates a new task on mobile application, presses sync on mobile application, deletes it on the web application	The task is created on both the applications. The task is deleted on the web application, but still present on the mobile application.			

51		User creates a new task on mobile application, presses sync on mobile application, deletes it on the web application and presses sync on the mobile application	The task is created on both the applications. The task is deleted on both the applications.			
52		User creates a new task on mobile application, presses sync on mobile application, deletes it on the web application and restarts the mobile application	The task is created on both the applications. The task is deleted on both the applications.			
53		User creates a new task on mobile application, presses sync on mobile application, deletes it on mobile application	The task is created on both the applications. The task is deleted on the mobile application but still present on the web application			

54		User creates a new task on mobile application, presses sync on mobile application, deletes it on mobile application, presses sync on mobile application	The task is created on both the applications. The task is deleted on both the applications.			
55		User creates a new task on mobile application, presses sync on mobile application, deletes it on mobile application, restarts the mobile application	The task is created on both the applications. The task is deleted on both the applications.			
56		User creates a new task on web application, presses sync on mobile application, deletes the task on mobile application	The task is created on both the applications. The task is deleted on the mobile application but still present on the web application.			

57		User creates a new task on web application, presses sync on mobile application, deletes the task on mobile application presses sync on the mobile application	The task is created on both the applications. The task is deleted on both the applications.			
58		User creates a new task on web application, presses sync on mobile application, deletes the task on mobile application and restarts the mobile application	The task is created on both the applications. The task is deleted on both the applications.			
59		User creates a new task on web application, presses sync on mobile application, deletes the task on web application	The task is created on both the applications. The task is deleted on the web application, but still present on the mobile application.			

60		User creates a new task on web application, presses sync on mobile application, deletes the task on web application presses sync on the mobile application	The task is created on both the applications. The task is deleted on both the applications.			
61		User creates a new task on web application, presses sync on mobile application, deletes the task on web application presses sync on the mobile application	The task is created on both the applications. The task is deleted on both the applications.			
62		User creates a new task on mobile application and deletes the task on mobile application	The task is created and deleted on the mobile application. No changes on the web application			

63		User creates a new task on web application and deletes the task on web application	The task is created and deleted on the web application. No changes on the mobile application			
64	Task editing deleted - Sync	When existing task is present on both the synced databases, a task is deleted on the web application and edited on the mobile application	The task is deleted on the web application and edited task shows up on the mobile application			
65		When existing task is present on both the synced databases, a task is deleted on the mobile application and edited on the web application	The task is deleted on the mobile application and edited task shows up on the web application			

66		When existing task is present on both the synced databases, a task is deleted on the web application and edited on the mobile application and presses sync on the mobile application	Mobile application shows the edited task. Web application recovers the deleted task and notifies the user saying that the deleted task on the web application has been restored			
67		When existing task is present on both the synced databases, a task is deleted on the mobile application and edited on the web application and presses sync on the mobile application	Web application shows the edited task. Mobile application recovers the deleted task and notifies the user saying that the deleted task on the mobile application has been restored			
68		When existing task is present on both the	The task is deleted on both the mobile and web			

			synced databases, a task is deleted on both the mobile and web application	applications.			
69			When existing task is present on both the synced databases, a task is deleted on both the mobile and web application and presses sync on the mobile application	The task is deleted on both the mobile and web applications.			
70	Task editing edited tasks -Sync		When existing task is present on both the synced databases, edit a task on web application and edit a task on mobile application	Edited version(web) present on the web application and edited version (mobile) present on the mobile application			

71		When existing task is present on both the synced databases, edit a task on web application and edit a task on mobile application (latest timestamp) and press sync on the mobile	Edited version (mobile) is present on both the applications			
72		When existing task is present on both the synced databases, edit a task on mobile application and edit a task on web application (latest timestamp) and press sync on the mobile	Edited version (web) is present on both the applications			

73		When existing task is present on both the synced databases, edit a task on mobile application and edit a task on web application at the same time (same timestamp)	Edited version(web) present on the web application and edited version (mobile) present on the mobile application			
74		When existing task is present on both the synced databases, edit a task on mobile application and edit a task on web application at the same time (same timestamp) and presses sync on the mobile application	Edited version (web) is present on both the applications. Incase of same timestamp, web version takes precedence			
75	User creation - Sync	Create a user on the mobile application	User created on the mobile application alone and not on the web			

			application			
76		Create a user on the web application	User created on the web application alone and not on the mobile application			
77		Create a user on the mobile application and press sync on the mobile application	User created on both the applications			
78		Create a user on the web application and press sync on the web application	User created on both the applications			
79		Create a user on the mobile application and restart the mobile application	User created on both the applications			
80		Create a user on the web application and restart the mobile application	User created on both the applications			

81	User deletion - Sync	When user database is on sync on both the applications, delete a user on mobile application	User deleted on			
82		When user database is on sync on both the applications, delete a user on web application				