**Test Cases**

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| **ID** | **Description** | PASS Condition | **FAIL Condition** |
| REQ1 | The app shall allow for user registration, requiring an email address and a password. | Open the App, Click "Register", follow the instructions to register, once completed use your new username and password and successfully log into the app | The user is not able to register for the app and is then not able to enter the app |
| REQ2 | Users should be able to add pictures from hikes | REQUIREMENT DELETED | REQUIREMENT DELETED |
| REQ3 | The app shall allow the user to comment on a trail and rate the trail | Pick a hike and click "add comment", enter your comment and click "add", the app accepts your comment and adds it to the hike | Pick a hike and click "add comment", enter your comment and click "add", the app does not let you add a comment, or it lets you, but does not display your new comment |
| REQ4 | The App will communicate securely with the Database | Try to log into the application, the application allows you to securely log in and brings you to the map page showing you hike choices | Try to log into the application, the application does not allow you to log in, or it allows you to log in but does not display the hikes on the map |
| REQ5 | The App will implement Google Map API’s in an Activity to Display trails. | Open and log into the app, the Google Map correctly displays after login | Open and log into the app, the map does not display after login |
| REQ6 | The app should be able to geolocate | Open and log into the app, once the map loads it shows you your current location on the map | Open and log into the app, once the map loads it shows an area that you are not currently in |
| REQ7 | The system will populate local trails received from the server to the map and draw them. | Open and log into the app, once the map loads it shows you trails on the map that are nearby your current location | Open and log into the app, the map loads, but it does not have any trails showing on the map |
| REQ8 | The application will display information about a trail when it is selected from the map (pictures, ratings, difficulty, comments) | From the maps page, pick and click on a hike, upon clicking it the app brings you to a new page that displays the name, description, rating, and comments of the hike | From the maps page, pick and click on a hike, once you click on it, nothing happens, or a new page loads but it does not tell you any information about that hike |
| REQ9 | The Application will implement an Apache Tomcat Java Servlet to store information on hiking trails | Try to load a new comment into the database, the app is able to properly show your new comment | Try to load a new comment into the database, upon reloading the comments page, your new comment does not show up |
| REQ10 | The app should take no longer than 2 seconds to load the next page | Start the app and open the any page, click any button to move to another page, it takes less than 2 seconds to load the new page | Start the app and open the any page, click any button to move to another page, it takes more than 2 seconds to load the new page |
| REQ11 | The map should not take longer than 2 seconds to reload after a user has changed the view of the map | Start the app and open the maps page, try to move the map to a new location, it takes less than 2 seconds to load the new map | Start the app and open the maps page, try to move the map to a new location, it takes more than 2 seconds to load the new map |
| REQ12 | It should not take any user more than 1 hour to completely learn how to use the app | Begin using the app, spend 30 to 60 minutes using the application, by the end of that time you are confident you know how to use the app | Begin using the app, spend 30 to 60 minutes using the application, after that time, you are still having trouble understanding how to use the app |
| REQ13 | The app should not fail 95% of the time and should have a reboot time under 1 minute when it does fail | Run the app and cycle through the pages for 10 minutes, the app should not fail more than once, during failure, reload the app, it should take under 60 seconds to reload | Run the app and cycle through the pages for 10 minutes, the app fails more than once, during failure the reload time of the app is over 60 seconds |
| REQ14 | The app should be compatible with even the most up to date phones and versions of Google maps | Attempt opening the app with different versions of the phone emulators on andriod studio, the application continues to function properly | Attempt opening the app with different versions of the phone emulators on andriod studio, the application starts to fail on certain emulators, or parts of the app do not function properly |
| REQ15 | The app should store the user login information and login automatically | Log into the app, close out the app and re open it, the app will save your log in information and login automatically | Log into the app, close out the app and re open it, upon reopening it, the application asks for your login credentials |