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| **S.no** | **Requirement** | **Scenario Description** | **Test Protocol Name** |
| 1 | Req 1: Play Store shall have HRM App details | * Verify when User searches the HRM app comes up in the result. | Heart Rate Monitor\_Test Protocol |
| 2 | Req 2: ”Heart Rate Monitor” App shall install | * Verify availability of Install option. * Verify waiting period once install option is selected. * Verify availability of open and uninstall option after complete installation. |  |
| 3 | Req 3: “Heart Rate Monitor” App shall work in online/offline mode. | * Verify the operation of application with data/Wi-Fi on. * Verify the operation of application with data/Wi-Fi off. |  |
| 4 | Req 4: “Heart Rate Monitor” App shall display instructions when run for the first time. | * Verify the instructions are shown when app is run for the first time. * Verify the instructions are skippable. |  |
| 5 | Req 5: Camera access permission pop up after the instructions screen. | * Verify the camera access permission pops up for user. * Verify the camera works when user confirms the access. * Verify the camera does not works and app throws an error when user denies the access. |  |
| 6 | Req 6: “Heart Rate Monitor” App shall let user check their BPM | * Verify the user can use the app only on tapping the “Tap to start button” * Verify the app gives an alert when user finger is not placed properly. * Verify the app gives accurate result when checking user BPM with all parameters of input fulfilled. |  |
| 7 | Req 7: Menu screen shows all the basic functionalities of the App | Verify the App shows following functionalities in Menu:   * MEASURE * STATISTICS * HISTORY * CALM * SETTINGS * HELP * FEEDBACK * REMOVE ADS |  |
| 8 | Req 8: STATISTICS option shown when selected from the menu | * Verify the STATISTICS option shows following options: * All labels * Day * Week * Month * Verify all the labels are in the left-hand side. * Verify Day, Week and Month labels are in the right-hand side. |  |
| 9 | Req 9: App asks user the Tap here every time to start the operation. | * Verify the app alerts user to tap on Tap here button. * Verify on tapping the Tap here button the App starts taking reading of BPM. |  |
| 10 | Req 10: App notifies user to save data through a pop up. | * Verify the popup consists the following information: * Title with: Heart Rate * Measured Heart Rate with BPM as unit * “LABEL” Text field * “IGNORE” button * “SAVE” button |  |
| 11 | Req 11: App shows history of data saved when user taps on HISTORY option | * Verify App shows HISTORY tab when the user taps on HISTORY in More menu. * Verify the past recorded data is shown in a formatted way. |  |
| 12 | Req 12: App allows user to update and delete a record from HISTORY | * Verify that user can update a record in HISTORY and save it. * Verify that user can delete a record in HISTORY. |  |
| 13 | Req 13: HRM app will display warning screen | * Verify that app shows warning screen only once. |  |
| 14 | Req 14: HRM app will display detailed instruction in HELP screen | * Verify user can go into HELP tab after tapping HELP button. * Verify the app shows detailed information. |  |
| 15 | Req 15: HRM app shows basic information when SETTINGS tab is opened. | * Verify user can go into SETTINGS tab after tapping SETTINGS button. * Verify app shows the basic information when the user taps SETTINGS button. |  |

# TEST CASES:

**Pre-Requisites:**

1. The App “Heart Rate Monitor” is available in Play Store.
2. The test device should have enough space for the installation of app.
3. The test device should have internet access to download the app from play store.

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| --- | --- | --- | --- | --- |
| **Step #** | **Action Description** | **Acceptance Criteria** | **Actual Result** | **Conclusion** |
| 1 | 1. Open Play Store App 2. Tap on the Search icon or bar 3. Enter the text “Heart Rate Monitor” in the search field. | The “Heart Rate Monitor” App is displayed in listed apps. | Google Play Store shows the list of app related to keyword “Heart Rate Monitor” | Failed  Passed |
| 2 | Scroll through the Result App page in Play Store and verify the details of App | Minimal details of “Heart Rate Monitor” App is displayed with:   * App icon * App name “Heart Rate Monitor” * App Rating * App size and downloads | The list of Apps is shown and followed by a minimal description of it. | Failed  Passed |
| 3 | Tap on “Heart Rate Monitor” App | “Heart Rate Monitor” dedicated page displayed up with:   * “Install” button * App details which include Rating, downloads and size. * App related reviews. * App’s developer details | The HRM app page opens and detailed description is given in the page. | Failed  Passed |
| 4 | Tap on “Install” button | “Heart Rate Monitor” app starts to download and install automatically.  Cancel button is displayed.  “Uninstall” and “open” buttons displayed after complete installation. | The downloading and installation process of HRM app begins. | Failed  Passed |
| 5 | Launch the installed “Heart Rate Monitor” app in the test device menu. | The HRM app launches. | The HRM app is launched. | Failed  Passed |
| 6 | Launch the app and tap “OK” on the instruction screen. Further the camera operation access pop up raises. Tap on “Allow” to give camera access. | Welcome interface of the app comes first.  The pop up for camera access shows up with is displayed. | When App opens welcome page comes up and then the pop up for camera access comes. | Failed  Passed |
| 7 | Tap “OK” and then “Allow” on the camera access pop up | Pop up for camera access seeks user permission with options stating:   * Allow option * Deny option   On allowing the pop up goes off. | A pop up comes on the screen and after the “Allow” button is tapped the pop up goes off | Failed  Passed |
| 8 | Tap on “Tap here to start” and place a finger on camera. | The BPM reading starts with the interface displaying the reading gathered in the form of:   * Numeric data * graph | The App starts gathering information and required | Failed  Passed |
| 9 | Tap on “Tap here to start” and do not place a finger on camera | The interface does not respond and no changes the place. | App interface does not do anything. | Failed  Passed |
| 10 | Tap on the side menu icon. | The menu with following options:   * MEASURE * STATS * HISTORY * CALM * SETTINGS * HELP * FEEDBACK * REMOVE ADS | The menu with following options:   * MEASURE * STATS * HISTORY * CALM * SETTINGS * HELP * FEEDBACK * REMOVE ADS | Failed  Passed |

# Review Process

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| --- | --- | --- | --- | --- | --- |
| **Test Case Name** | **Step no.** | **Reviewer** | | **Author comments** | **Comments** |
|  | | Comments | Severity |  | |
| Heart Rate Monitor\_Test Protocol | 5 | App launch from the play store | Critical |  |  |
| Heart Rate Monitor\_Test Protocol | 5 | App launch from the device apps list | Critical |  |  |
| Heart Rate Monitor\_Test Protocol | 6 | Test case for Display of instructions on first launch of app missing | Major |  |  |
| Heart Rate Monitor\_Test Protocol | 6 | Test case for Display of instructions on second launch of app missing | major |  |  |
| Heart Rate Monitor\_Test Protocol | 7 | Test case for when deny is chosen by the user | Major |  |  |