**SCENARIO IDENTIFICATION:**

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| S. No | Requirement | Scenario Description | Test Protocol Name |
| 1 | Req 1: Play Store shall have HRM App details. | Verify App details in:  Play Store search screen when user searched | Heart Rate Monitor \_Test Protocol |
| 2 | Req 2: App shall install properly | Verify availability of Install option.  Verify waiting period once install option is selected.  Verify availability of open and uninstall option after complete installation. | Heart Rate Monitor \_Test Protocol |
| 3 | Req 3: App shall work in while online and offline mode. | Verify working of app:  When internet is available.  When internet is not available. | Heart Rate Monitor \_Test Protocol |
| 4 | Req 4: HRM shall be display Instruction’s screen after launching the app for first time. | Verify the display of instructions:  During the first-time launch.  During the second launch. | Heart Rate Monitor \_Test Protocol |
| 5 | Req 5: Camera access popup shall be displayed after instructions screen. | Verify the popup of camera access request after the display of instruction screen.  Verify the availability of “ok” option.  Verify the popup of access request with allow and deny option available.  Verify the camera works when user allows access  Verify the error message pop up when user declines the access. | Heart Rate Monitor \_Test Protocol |
| 6 | Req 6: HRM shall allow the user to Measure BPM | Verify the provision of user access to measure BPM.  Verify the display “tap here to start” message.  Verify the app measures the BPM when finger is placed on the camera.  Verify the app does not measure the BPM when finger is placed on the camera | Heart Rate Monitor \_Test Protocol |
| 7 | Req 7: Menu screen shall be displayed | Verify the display of menu with the following options when user selects the menu option:   * MEASURE * STATISTICS * HISTORY * CALM * SETTINGS * HELP * FEEDBACK * REMOVE ADS | Heart Rate Monitor \_Test Protocol |
| 8 | Req 8: STATISTICS screen shall be displayed when taps on “STATS” | Verify the display of statistics with the following options when user selects the “Stats” option:  All LABELS  Week  Month  Verify the display of “All labels” on left hand side of screen  Verify the display of “Week” and “Month” on the right-hand side of the screen.  Verify the display of bar graph of previous and present-day measurements of BPM with date and range  Verify the display of “AVG”, “MIN’ and “MAX” of the measurements. | Heart Rate Monitor \_Test Protocol |
| 9 | Req 9: HRM shall ask the user to “Tap here to Start” to check BPM every time | Verify the display “tap here to start” message.  Verify the flashlight is turned ‘On’ when the user taps on “tap here to start”.  Verify the app measures the BPM when finger is placed on the camera | Heart Rate Monitor \_Test Protocol |
| 10 | Req 10: HRM shall be display popup to save data. | HRM shall be display popup to save data with:   * Measured Heart Rate with BPM as unit. * “LABEL” Text field * “IGNORE” button * “SAVE” button   Verify user can give a label to the measured data in the “label” field. | Heart Rate Monitor \_Test Protocol |
| 11 | Req 11: HISTORY screen shall be displayed when taps on the option | Verify user can tap on HISTORY option from menu.  Verify the display of all the previous measurements with BPM as unit on the left-hand side on screen.  Verify the display of label name, date and time on the right-hand side of screen.  Verify the display of “ALL LABELS” on the top left-hand side of the screen.  Verify the selection of label by the user. | Heart Rate Monitor \_Test Protocol |
| 12 | Req 12: User shall be able to update and delete the record from HISTORY | Verify the user can select one data by tapping on reading.  Verify user can give or edit a label to the measured data in the “label” field.  Verify the display of “delete”, “cancel” and “Update” option on the screen.  Verify the display of updated data when the user taps on update.  Verify the deletion of data when user taps on delete.  Verify no change in data when user taps on cancel. | Heart Rate Monitor \_Test Protocol |
| 13 | Req 13: HRM shall display Warning screen only once. | Verify the display of warning screen when the app is used for the first time. | Heart Rate Monitor \_Test Protocol |
| 14 | Req 14: HRM shall display detailed instructions in HELP screen. | Verify the display of HELP screen with FAQs and warning screen when user taps on “Help”.  Verify the provision to scroll through the screen. | Heart Rate Monitor \_Test Protocol |
| 15 | Req 15: HRM shall display Setting screen. | Verify the display of “SETTINGS” screen when user taps on SETTINGS option from More menu, with list of options:   * Basic Information: DOB and Weight * Flash: Use Flash checkbox – Default enabled * Sensitivity: Low and High checkbox – Default High * Heart Waves: Save checkbox – Default enabled * Measurement Time (Sec): Default 15 Seconds * Sound: Beep with Pulse checkbox – Default disabled * Google Fit: Send Heart Rates to Google Fit (checkbox – Default disabled) * Share/Export History option.   Verify the user can fill the basic information.  Verify the user can check the checkboxes. | Heart Rate Monitor \_Test Protocol |
| 16 | Req 16: HRM shall allow the user to share/export the measured heart rate History. | Verify user can tap on the SHARE/ EXPORT HISTORY option.  Verify the display of “saving data” options when user taps on Share/Export history.  Verify the sharing/exporting of history in CSV format when the user taps on the options displayed under “saving data”. | Heart Rate Monitor \_Test Protocol |

**TEST CASES:**

**Pre-Requisites:**

Make sure internet is available.

Make sure that “HEART RATE MONITOR” application is available on Play Store.

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| **STEP #** | **Action Description** | **Acceptance Criteria** | **Actual Result** | **Conclusion** |
| 1 | Open play store application.  Enter “Heart Rate Monitor” in the search field. | Details of “heart rate monitor” app is displayed among the listed apps. | Details of “heart rate monitor” app displayed among the listed apps. | Passed  Failed |
| 2 | Verify the details of app | Details of “heart rate monitor” is displayed with:   * App icon * App name” Heart Rate Monitor” * Ratings * Category of app * Number of downloads * Size of app. | Details of “heart rate monitor” displayed. | Passed  Failed |
| 3 | Tap on the “Heart Rate Monitor” app | “Heart Rate Monitor”  Screen is displayed with   * Install button | Heart Rate Monitor”  Screen displayed along with  Install button. | Passed  Failed |
| 4 | Tap on install button. | * Installation process begins. * Cancel button is displayed. * “Uninstall” and “open” buttons displayed after complete installation. | App was installed.  “Uninstall” and “open” buttons were displayed after complete installation. | Passed  Failed |
| 5 | Tap on “open” button. | The app is launched. | The app was launched successfully | Passed  Failed |
| 6 | Launch the app from Play Store or from the Apps screen for the first time | The instructions for user are displayed with   * “Ok” option | The instructions for user displayed along with “Ok” option | Passed  Failed |
| 7 | Exit from the app and Launch the app again. | The instructions for user are not displayed. | The instructions was not displayed after the first launch/use. | Passed  Failed |
| 8 | Launch the app and tap “OK” on the instruction screen | Pop up for camera access is displayed with   * “Ok” option | Pop up for camera access is displayed along with “Ok” option | Passed  Failed |
| 9 | Tap “ok” on the camera access pop up | Pop up prompting the user to grant Permission for camera access is displayed with   * Deny option * Allow option | Pop up for camera access displayed. | Passed  Failed |
| 10 | Tap “deny” option on camera access popup | Pop up for camera access is displayed with   * “Ok” option | Pop up prompting the user to permit camera access is displayed again along with “Ok” option | Passed  Failed |
| 11 | Tap “allow” option on camera access popup | “tap here to start” is displayed on screen. | Screen displays “tap here to start” | Passed  Failed |
| 12 | Tap on “tap here to start” and place a finger on camera | The app starts measuring the heartbeat rate and displays the reading in both numeric and graphical from. | The app starts measuring the heartbeat rate of the user in both numeric and graphical from. | Passed  Failed |
| 13 | Tap on “tap here to start” and finger is not placed on camera | Turns on the flashlight and waits for the user for further action | The app turns on the flashlight and waits for user. | Passed  Failed |
| 14 | Tap on the menu icon. | The menu with following options is displayed:   * MEASURE * STATS * HISTORY * CALM * SETTINGS * HELP * FEEDBACK * REMOVE ADS | The menu with said options displayed on left hand side of screen. | Passed  Failed |
| 15 | Tap on “Stats” | Statistics with the following options when user selects the “Stats” option:   * All LABELS on left hand side of screen * WEEK and MONTH right hand side of screen * “AVG”, “MIN’ and “MAX” of the measurements displayed below the bar graph. | STATS screen displayed with “all labels”, “week” and “month” | Passed  Failed |
| 16 | App measures the BPM. | App measures the BPM and a popup to save data is displayed with measure bpm and the following options:   * “LABEL” Text field * “IGNORE” button * “SAVE” button | The measured BPM displayed on the pop-up prompting to label and save or ignore the data. | Passed  Failed |
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# Review Process

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| **Test Case name** | **Step No.** | **Reviewer** | | **Author Comments** | **Comments** |
|  | | **Comments** | **Severity** |  | |
| Heart Rate Monitor\_Test Protocol | 4 | More clarity on steps, use bullet points. | Minor | Fixed |  |
| Heart Rate Monitor\_Test Protocol | 10 | Expected output is not clear | Critical | Fixed |  |
| Heart Rate Monitor\_Test Protocol | 12 | Output needs more description | Major | Fixed. |  |
| Heart Rate Monitor\_Test Protocol | 16 | Test description not apt. | Major | Fixed |  |