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| --- | --- | --- | --- |
| **Test** | **Expected result** | **API 8 result** | **API 19 result** |
| **Login Activity** |  |  |  |
| Enters invalid password and attempt to login | User is notified via toast that username is incorrect | PASS | PASS |
| Attempt to login whilst in flight mode | User is notified of connection error | PASS | PASS |
| Attempt to login using correct details | Download activity is launched | PASS | PASS |
|  |  | PASS | PASS |
| **Download activity** |  | PASS | PASS |
| User presses back button | Return to login screen | PASS | PASS |
| User minimises application and re-enters | Download continues in background | PASS | PASS |
| Calculator download fails | Dialog asking the user whether they would like to retry is displayed | PASS | PASS |
| Index download fails | Dialog asking the user whether they would like to retry is displayed | PASS | PASS |
| Drug information download fails | Dialog asking the user whether they would like to retry is displayed | PASS | PASS |
| User clicks the retry button | The appropriate download task is restarted | PASS | PASS |
| User clicks cancel button | User is logged out and login activity is displayed | PASS | PASS |
|  |  |  |  |
| **Main activity** |  |  |  |
| User presses back button | Close application | PASS | PASS |
| Check last update date is set correctly | The date within the last updated TextView contains the date the database was last updated | PASS | PASS |
| Browse drugs button press | Open the browser drugs activity | PASS | PASS |
| Browse calculator button presses | Open the browser calculator activity | PASS | PASS |
| Update button pressed | Open the download activity | PASS | PASS |
|  |  |  |  |
| **Browse drugs** |  |  |  |
| Drugs are displayed properly | Full list of available drugs are displayed within the list | PASS | PASS |
| User enters text into the search box | The lists of drugs are filtered by the inputted text | PASS | PASS |
| User clicks drug | View drug activity is launched for that drug | PASS | PASS |
|  |  |  |  |
| **Browse calculators** |  |  |  |
| Drugs are displayed properly | Full list of drugs with calculators are displayed within the list | PASS | PASS |
| User enters text into the search box | The lists of drugs are filtered by the inputted text | PASS | PASS |
| User clicks drug | Calculator is launched for that drug | PASS | PASS |
|  |  |  |  |
| **View drug activity** |  |  |  |
| The correct drug is displayed | The drug selected by the user is displayed | PASS | PASS |
| User clicks on header helper button | The helping information for the header is displayed. | PASS | PASS |
| User clicks calculator button | The calculator activity is opened | PASS | PASS |
|  |  |  |  |
| **Calculator test** |  |  |  |
| A dosage calculation using correct values is performed by the user | The results of the calculation and an explanation for the equation used is displayed to the user | PASS | PASS |
| An infusion rate calculation using correct values is performed by the user | The results of the calculation and an explanation for the equation used is displayed to the user | PASS | PASS |
| User enter 0kg for weight | Error about weight is displayed to user | PASS | PASS |
| User leaves weight field empty | Error about weight is displayed to user | PASS | PASS |
| User enters weight of 5kg | A warning is displayed to the user regarding the weight | PASS | PASS |
| User enters weight of 500kg | A warning is displayed to the user regarding the weight | PASS | PASS |
| User enters 0 for dosage | Error about dosage is displayed to user | PASS | PASS |
| User leaves dosage field empty | Error about dosage is displayed to user | PASS | PASS |
| User enters 0 for time | Error about time is displayed to user | PASS | PASS |
| User leaves time field empty | Error about time is displayed to user | PASS | PASS |
| User enters 0 for concentration | Error about concentration is displayed to user | PASS | PASS |
| User leaves concentration field empty | Error about concentration is displayed to user | PASS | PASS |
|  |  |  |  |
| **Common** |  |  |  |
| Exit menu item pressed | Application is terminated | PASS | PASS |
| Logout menu item pressed | User is logged out and then the login activity is opened | PASS | PASS |
| Home menu item pressed | The main activity is launched | PASS | PASS |
| Update item pressed | The download activity is launched | PASS | PASS |
| Update item pressed | The download activity is launched | PASS | PASS |
| Browse drugs item pressed | The browse drugs activity is launched | PASS | PASS |
| Browse calculator pressed | The browser calcualtor activity is launched | PASS | PASS |