| | Die als Days Dafa etc | Team 4 | White box testing: Medicord | |
|----|--|---|-----------------------------|----------|
| | Black Box Defects | | | |
| | Defeat Description | Fix | Madula Lagation | Coverity |
| | Defect Description Code doesn't check if text | Add code to check if there is text in | Module Location | Severity |
| | boxes are empty | the fields | Login | |
| | | Use java regex to make sure special | 209 | |
| | boxes contains invalid | characters aren't passes to prevent | | |
| 2 | 2 characters | nasty things such as SQL injection | Login | |
| | Code doesn't check if the | | | |
| , | UserID return from the | Add code to make sure that it isn't | | |
| | database is valid | null or 0 | Login | |
| | Code doesn't handle the condition if the username | Add code to notify the user the | | |
| | and password pairing are | information that was entered is | | |
| 4 | incorrect. | incorrect | Login | |
| | | Use the Java Swing JPasswordField | | |
| | | instead of a JTextField for password | | |
| | Passwords are visible. | input. | Login | |
| | Code doesn't check | | | |
| | usernames for proper | Add code to check username length | | |
| , | length or invalid | and java regex to check for invalid | Create Assessmt | |
| | Code doesn't check | characters | CreateAccount | |
| | passwords for proper | Add code to check password length | | |
| | length or invalid | and java regex to check for invalid | | |
| 7 | characters | characters | CreateAccount | |
| | No check to make sure | | | |
| | that the password and | | | |
| | password verification | | | |
| | I fields are the same | Add a string comparison | CreateAccount | |
| | When making an account | Add and to make a we that the | | |
| | it doesn't check to make sure the other account | Add code to make sure that the account creation type is an exclusive | | |
| (| type bubble isn't selected | event | CreateAccount | |
| | There is no code in place | Overit | Oreate/toodant | |
| | to make sure that the | | | |
| | information retrieved from | Add a check to make sure that | | |
| | | garbage was not received and | | |
| 10 | patient accounts | handle it accordingly | CreateAccount | |
| | If an account is created | | | |
| | with no bubble checked then the program does | | | |
| 1. | nothing | Add code to notify the user | CreateAccount | |
| | Account can be created | Add code to check username length | 0.000,0000 | |
| | with username that is | in such a way that an empty string | | |
| 12 | blank or whitespace. | will not cause a crash. | CreateAccount | |
| | Account can be created | Add code to check password length | | |
| 4, | with password that is | in such a way that an empty string | 0 | |
| 13 | blank or whitespace. | will not cause a crash. | CreateAccount | |
| | Account can be created with both "Patient" and | Add code to tie handlers of radio buttons together and make them | | |
| 14 | Doctor" selected. | mutually exclusive. | CreateAccount | |
| | Bootor colociou. | Add code to insure that passwords | Oroato/ toocarit | |
| | Account can be created | match on account creation, and | | |
| | with non-matching | display a warning if they do no | | |
| 15 | passwords. | match. | CreateAccount | |
| | Instead of having unique | | | |
| | | | | |
| | patient lists, all Doctor | | | |
| | accounts have access to | Instead of having unique patient lists, | | |
| | accounts have access to all appointmens made | all Doctor accounts have access to | | |
| 16 | accounts have access to all appointmens made with all Patients and all | all Doctor accounts have access to all appointmens made with all | | |
| 16 | accounts have access to all appointmens made with all Patients and all other Doctors. | all Doctor accounts have access to all appointmens made with all Patients and all other Doctors. | Doctor View | |
| 16 | accounts have access to all appointmens made with all Patients and all other Doctors. As a doctor, when a | all Doctor accounts have access to all appointmens made with all Patients and all other Doctors. Add a default Java Swing column | | |
| 16 | accounts have access to all appointmens made with all Patients and all other Doctors. | all Doctor accounts have access to all appointmens made with all Patients and all other Doctors. | | |
| | accounts have access to all appointmens made with all Patients and all other Doctors. As a doctor, when a Category at the top of the Patient List is clicked, the list should sort by that | all Doctor accounts have access to all appointmens made with all Patients and all other Doctors. Add a default Java Swing column sorter to the appointment table. tblAppointments. setAutoCreateRowSorter(true); af | | |
| | accounts have access to all appointmens made with all Patients and all other Doctors. As a doctor, when a Category at the top of the Patient List is clicked, the list should sort by that Category. It does not. | all Doctor accounts have access to all appointmens made with all Patients and all other Doctors. Add a default Java Swing column sorter to the appointment table. tblAppointments. | | |
| | accounts have access to all appointmens made with all Patients and all other Doctors. As a doctor, when a Category at the top of the Patient List is clicked, the list should sort by that Category. It does not. If a Patient creates an | all Doctor accounts have access to all appointmens made with all Patients and all other Doctors. Add a default Java Swing column sorter to the appointment table. tblAppointments. setAutoCreateRowSorter(true); af | Doctor View | |
| | accounts have access to all appointmens made with all Patients and all other Doctors. As a doctor, when a Category at the top of the Patient List is clicked, the list should sort by that Category. It does not. If a Patient creates an appointment with a | all Doctor accounts have access to all appointmens made with all Patients and all other Doctors. Add a default Java Swing column sorter to the appointment table. tblAppointments. setAutoCreateRowSorter(true); af | Doctor View | |
| | accounts have access to all appointmens made with all Patients and all other Doctors. As a doctor, when a Category at the top of the Patient List is clicked, the list should sort by that Category. It does not. If a Patient creates an appointment with a Doctor, the Doctor's | all Doctor accounts have access to all appointmens made with all Patients and all other Doctors. Add a default Java Swing column sorter to the appointment table. tblAppointments. setAutoCreateRowSorter(true); af | Doctor View | |
| | accounts have access to all appointmens made with all Patients and all other Doctors. As a doctor, when a Category at the top of the Patient List is clicked, the list should sort by that Category. It does not. If a Patient creates an appointment with a | all Doctor accounts have access to all appointmens made with all Patients and all other Doctors. Add a default Java Swing column sorter to the appointment table. tblAppointments. setAutoCreateRowSorter(true); af | Doctor View Doctor View | |

| 33 | doctor without stating a reason. | Add checks for valid entry. | Appointments | 1 |
|----|--|--|----------------------------|-----|
| 32 | Able to schedule appointment for date with | , and one of the one y. | , фронилоно | - 1 |
| 20 | duplicate appointments of the same date, doctor, and reason | Add checks for valid entry. | Appointments | 1 |
| 31 | appointment without entering any date. Able to schedule | Add checks for valid entry. | Appointments | 1 |
| 30 | appointment for dates that have already passed Able to schedule | Add checks for valid entry. | Appointments | 1 |
| 29 | entering any information Able to schedule | Add checks for valid entry. | Appointments | 1 |
| 28 | Able to schedule appointment without | before processing. | лирониненся Аррониненся | |
| 28 | no Doctor Selected causes a index out of bounds stack dump in terminal. (Only possible when no doctors registered) | Create a check to insure that the selection index is a valid index before processing. | Appointments | 2 |
| 27 | before 11/03/55. Clicking View Info when | sorter to get the desired behaviour. | Appointments | 3 |
| | Sorting by Date incorrect (maybe lexographic?) for example, descending by dates puts 11/15/14 after 11/3/00 and 12/12/12 | Use the default Java Swing column | , ppoulation | |
| | If letters are entered into the date, nothing appears. Should have a message indicating to enter date. | Check that numbers are entered, if entry is incorrect display error message indicating proper entry. | Appointments | 3 |
| 25 | Since app does not ask for time entry or check for conflicts patient is able to schedule multiple appointments for the same day with the same doctor, when there could be a conflict | Ask for time entry and check for conflicts when patient makes appointments. | Appointments | 1 |
| 24 | When a doctor updates his name information, the <default name=""> in the greeting should update. Instead, it remains.</default> | When doctor information is updated and saved, force a refresh of the page and get the updated doctor info from the database. | Doctor View | 3 |
| | As a doctor, when a Category at the top of the Patient List is clicked, the list should sort by that Category. It does not. | Add a default Java Swing column sorter to the appointment table. tblAppointments. setAutoCreateRowSorter(true); af 105 in frmDoctor.java | Doctor View | 3 |
| | On the Doctor View page, the 'Female' and 'Male' radio buttons can be selected at the same time. | Tie the handlers of the two gender radio buttons together and make them exclusive. | Doctor View | 3 |
| 21 | On the Doctor View page, the 'Male' radio button is already selected and cannot be unselected. | Make radio button selectable and make it exclusive with the 'Female' radio button. | Doctor View | 3 |
| 20 | If a Patient cancels an appointment with a Doctor, the Doctor's appointment list is not updated until the next login. | Added a refresh button that manually updates the appointment list | Doctor View | 2 |
| 19 | When a doctor clicks the Remove button on the patient list, the patient should be removed. Instead, they remain until next login. | Added a refresh button that manually updates the appointment list | Doctor View | 2 |

| 34 | Able to schedule appointment without entering any date. | Add checks for valid entry. | Appointments | 1 |
|----|--|--|---------------------|---|
| | Emergency contact number does not appear to be saved anywhere. It is not persisted across sessions. | Add SQL column to store the emergency contact number, and code to save this number on account information update. | Account Information | 3 |
| 36 | In Allergies: Special characters such as the single quote as would be used in "Sam's cat" cause the SQL statement to fail, but from a user perspective no signs of failure. | Use built in Java sql sanitation (through prepareStatement) to insure that special characters are propertly escaped before being insert into the database. | Account Information | 1 |
| 37 | In Current Medication: Special characters such as the single quote as would be used in "Sam's cat" cause the SQL statement to fail, but from a user perspective no ' signs of failure. | Use built in Java sql sanitation (through prepareStatement) to insure that special characters are propertly escaped before being insert into the database. | Account Information | 1 |
| | In Medical History: Special characters such as the single quote as would be used in "Sam's cat" cause the SQL statement to fail, but from a user perspective no signs of failure. | Use built in Java sql sanitation (through prepareStatement) to insure that special characters are propertly escaped before being insert into the database. | Account Information | 1 |
| | Dates Aggressively fixed: 13/13/13 becomes 1/13/14. Anything not in MM/DD/YY format removed after typed. Input fields should not be modified while being | User should be notified of error and | 7 COOCH MICHIGAN | |
| 39 | accessed | correct format. | Appointments | 1 |
| | "Cancel appointment" button does not trigger view to update. | Appointment should be removed from list. | Appointments | 1 |
| A1 | Sometimes scheduled appointment does not appear until close clicked when scheduling appointments. | Appointment should added to view right away. | Appointments | 1 |
| 7. | Clicking View Appointment Information with out anything selected causes Index out of bound exception to trigger | ng.n. anay. | , appointments | |
| 42 | stack dump (non-fatal). Clicking Cancel with out anything selected causes | Add bounds checking. | Appointments | 2 |
| 43 | Index out of bound exception to trigger stack dump (non-fatal). | Add bounds checking. | Appointments | 3 |
| 44 | Sorting by Appointment Number sorts lexographically instead of in natural numbering order. | Use the default Java Swing column sorter to get the desired behaviour. | Appointments | 2 |
| 44 | older. | sorter to get the desired behaviour. | Appointments | |

| 45 | View Appointment shows the appointment info for the next appointment after the one selected (by appointment id). If the appointment with the greatest id is selected it causes an index out of bounds exception dump in the terminal. (Off by one error) | | Appointments | 1 |
|----|--|--|--|----------|
| | D. C. (D C. | | NA. J. L. L C | 0 |
| | Defect Description | Fix | Module Location | Severity |
| 60 | White Box Defects | | | |
| 61 | Creation of patient account doesn't include a check of success or failure, it just assumes that it succeeds. | Add code to check for successful patient account creation, and notify the user of an error when it happens and tell them to try again | createAccount.java:218 | 2 |
| | Username verification code is commented out, which causes the method to always return true. Password verification | Uncomment null and size check. | createAccount.java: userVerified() | 1 |
| 22 | code is commented out, which causes the method | | 07046A000174 in 177 177 177 177 177 177 177 177 177 17 | |
| 62 | to always return true. | Uncomment null and size check. | createAccount.java: passwordVerified() | 2 |
| 63 | Password equality check is commented out in account creation. | Uncomment password and passver check to make sure the user has typed in the same password before creating their account. | createAccount.java:209 | 2 |
| 64 | In processing the Doctor phone number, number lengths other than 7 and 10 are not allowed. This removes the possibility of using numbers of countries that use a different length numbers for their telephone numbers. | Allow regional numbers by only checking the phone number to insure that the entries are all digits, not by checking the length against american standards. | frmDoctor.java:422 | 3 |
| - | Login button has | | , , , , | |
| 65 | commented out code that checks if text boxes contain text | Uncomment the checks | Login.java | 3 |
| 66 | Code that notifies the user of an incorrect password/username combo is commented out | Uncomment the check of the username and password | Login.java | 3 |
| | All types are VARCHAR/VARCHAR2. Could cause issues if try | Change to appropriate SQL data | - | |
| 67 | to sort by date, etc. Improper sql statement | types. | Importdb.java:30 | 3 |
| 68 | preparation for sign in | Change to prepared statement. | Importdb.java:78 | 1 |
| | Creating id from count executed in separate query, id not guaranteed to be unique. (must be | Use built in auto-increment type for | | |
| 69 | unique primary key) | identifier. | Importdb.java:108 | 2 |
| | Improper sql statement preparation for check of | | | |
| 70 | user existence. | Change to prepared statement. | Importdb.java:120 | 1 |
| | re-use of patientTest variable for insertPatient statement. Correct behavior, but could lead to bugs. | Use separate, descriptive variables for different statements. | Importdb.java:137 | 3 |
| 11 | Improper sql statement | וטו עווופופות אמנכוווכותא. | iniportub.java. 137 | 3 |
| 72 | preparation for account creation. | Change to prepared statement. | Importdb.java:148 | 1 |
| | Improper sql statement | | | |
| 73 | preparation for patient profile update | Change to prepared statement. | Importdb.java:173 | 1 |

| | Method has parameter for | | | |
|------|------------------------------|---|---|---|
| | econtact, parameter | Add econtact field to table, include in | | |
| 74 | ignored. | statement. | Importdb.java:173 | 2 |
| | Improper sql statement | | | |
| | preparation for doctor | | | |
| 75 | profile update | Change to prepared statement. | Importdb.java:200 | 1 |
| | Improper sql statement | <u> </u> | • | |
| | preparation for making | | | |
| 76 | appointment | Change to prepared statement. | Importdb.java:227 | 1 |
| 10 | Improper sql statement | change to propared etatement. | importabijava.zzr | • |
| | preparation for getting | | | |
| 77 | user info. | Change to propored statement | Importablique:260 | 4 |
| - 11 | | Change to prepared statement. | Importdb.java:260 | 1 |
| | Selecting appointment for | | | |
| | doctor gets all | | | |
| | appointments, not just | | | |
| | one with the specific | Add where statement to filter by | | _ |
| 78 | doctors id. | doctor id. | Importdb.java:287 | 2 |
| | Improper sql statement | | | |
| | preparation for viewing | | | |
| 79 | appointments | Change to prepared statement. | Importdb.java:289 | 1 |
| | getListOfDoctorNames | | | |
| | takes patient id, but | | | |
| | returns all Doctors. | Depending on desired behavior, | | |
| | | remove parameter for patient id or | | |
| | or behavior. | add filter. | Importdb.java:313 | 3 |
| | If account does not exist. | | F 2. 1200 ye. 2012 10 | |
| | resource not properly | | | |
| | closed (however, will be | | | |
| | automatically closed by | | | |
| | , | | | |
| 90 | garbage collector | Class in finally block | Importabilityo:252 | 3 |
| 00 | eventually) | Close in finally block. | Importdb.java:352 | 3 |
| | Improper database | | | |
| 0.4 | access(1) for saving | 01 | Lanca (alla in a 2000 | |
| | appointment notes. | Change to prepared statement. | Importdb.java:396 | 1 |
| 82 | GUI.java: dead code? | Remove file. | | 2 |
| | signindb returns null if | | | |
| | user doesn't exist. Calling | | | |
| | functions on null will throw | Add null check to gracefully handle | | |
| 83 | a Null Pointer Exception. | login failure. | Login.java:136 | 3 |
| | Directly connects to | | | |
| | Database. This leaves the | | | |
| | database account's | | | |
| | credentials viewable to | Handle actual queries on remote | | |
| 84 | the user. | server. | General | 1 |
| | Male-Female treated | | | |
| | internally as exclusive, | Add female and male radio buttons | | |
| 85 | but can both be pressed | to radio button group. | frmPatient:initComponents | 2 |
| | Welcome message | Add null check before setting | a.a | |
| | displayed even if patient | welcome message, custom welcome | | |
| 98 | name unset (null). | message if unset. | frmPatient:362 | 2 |
| 00 | Excessive operations for | meddage ii undet. | IIIII GUGIU.JOZ | |
| | task performed, all in one | | | |
| | line. No verification of | Potactor code to de less | | |
| | | Refactor code to do less | | |
| | results of each step | conversions. Break into several | | |
| .= | (which have error | steps and check error conditions | from Dation (444 | _ |
| 87 | conditions). | after each step. | frmPatient:411 | 2 |
| | Possible off by one error. | | | |
| | Associating row number | | | |
| | with data at rowNum-1 in | Either use index-1 later to retrieve | _ | |
| 88 | model. | data or zero-index. | frmPatient:495 | 1 |
| | Excessive operations for | | | |
| | task performed, all in one | | | |
| | line. No verification of | Refactor code to do less | | |
| | results of each step | conversions. Break into several | | |
| | (which have error | steps and check error conditions | | |
| 89 | conditions). | after each step. | frmDoctor:391 | 2 |
| | | Change "EXIT_ON_CLOSE" to | | _ |
| 90 | hit to close window in | "DISPOSE ON CLOSE" | appointment.java:29 | 3 |
| | | | , | 3 |