***SVV ASSIGNMENT 2***

***18-SE-86***

***TEST CASES FOR BLACK BOX TESTING***

***PROJECT:***

**OUR PROJECT WAS A GYM MANAGEMENT SYSTEM AND IT WAS USEDE TO MAINTAIN THE RECORDS OF EMPLOYEES LIKE THE ADMINISTRATOR, THE TRAINERS AND NUTRITIONISTS AND USERS IN ADDITION WITH THE GYM EQUIPMENT THAT IS BEING USED.**

***TESTING TECHNIQUES USED:***

1. EQUIVILENT CLASS PARTITION TESTING (ECT)
2. BOUNDARY VALUE TESTING (BVT)
3. FUZZY TESTING (FT)
4. OMISION TESTING (OT)
5. ERROR HANDLING TESTING (EHT)
6. SECURITY TESTING (ST)
7. REQUIRMENTS/SPECIFICATIONS TESTIING(RST)
8. NULL CASE TESTING (NCT)
9. VOLUME TESTING (VT)
10. USABILITY TESTING (UT)
11. BUTTON PRESS TESTING (BPT)
12. STATE TRANSITION TESTING (STT)

***TEST CASE TABLE***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***TEST ID*** | ***TEST CATEGORY*** | ***TEST CASE*** | ***TEST EXECUTION*** | ***EXPEXTED RESULT*** | ***PASS/FAIL*** | ***REMARKS*** |
| ***TC01*** | STT | CHECK TRANSITION FROM LOG IN TO DASHBOARD | ENTER VALID LOG IN ID AND PASSWORD AND CHOSE A USER TYPE THAN PRESS LOGIN BUTTON | DASHBOARD SHOULD BE SHOWN | PASS |  |
| ***TC02*** | STT | CHEC TRANSITION FROM LOGIN TO SPECIFIED DASHBOARD OF ADMIN | ENTER VALID ADMIN ID AND ADMIN PASSWORD AND CHOSE ADMIN AS USER TYPE. THAN CLICK LOGIN BUTTON | ADMIN DASHBOARD SHOULD BE DISPLAYED | PASS | EVERY TYPE OF USER HAS THEIR OWN DASHBOARDS |
| ***TC03*** | BPT | CHECK CUSTOMERS LIST BUTTON CLICK ON ADMIN DASHBOARD | CLICK THE CUSTORMERS LIST BUTTON IN LEFT SIDE TAB OF ADMIN DASHBOARD | CUSTOMERS LIST SHOULD BE DISPLAYED | PASS |  |
| ***TC04*** | BPT | CHECK FILE UPLOAD FOR USER PROFILE PICTURE FIELD | CLICK THE UPLOAD FILE BUTTON IN USER PROFILE SECTION OF SIGN UP PAGE | SHOULD OPEN THE FILE EXPLORER TO UPLOAD PICTURE | PASS |  |
| ***TC 05*** | UT | CHECK TIME OF TRANSITIONS BETWEEN TWO SCREENS | ENTER USER CREDENTIALS AND PRESS LOG IN | THE DASHBOARD SCREEN SHOULD APPEAR WITHIN 0.5 SECONDS OF CLICKING THE LOGIN BUTTON | PASS |  |
| ***TC06*** | UT | CHECK AVAILABILITY OF ALL RELEVANT INFORMATION TO CUSTOMER | LOG IN TO CUSTOMER DASHBOARD AND LOOK FOR PROFILE TRAINING CHART AND NUTRITION CHART | PROFILE NUTRITION CHART AND TRAINING CHART SHOULD ALL HAVE SEPARATE TABS IN CUSTOMER DASHBOARD | PASS |  |
| ***TC07*** | VT,OT | CHECK DATABASE THREASHOLD VOLUME | ENTER MORE THAN 500 CUSTOMERS IN THE DATABASE | SYSTEM SHOULD SHOW CRASH WITH AN ERROR MESSAGE | FAIL | THERE IS DATA LEAKAGE A AS SYSTEM KEEPS LOSING DATA BUT DOESNOT GIVE ANY ERRORS |
| ***TC08*** | VT | CHECK DATABASE THRESHOLD VOLUME | ENTER LESS THAN 500 CUSTOMERS DATA | SYSTEM SHOULD BE ABLE TO HANDLE THE DATA ACURATELY | PASS |  |
| ***TC09*** | NCT | CHECK USERNAME FIELD OF SIGN UP PAGE | LEAVE THE USERNAME FIELD EMPTY AND ENTER A VALID PASSWORD AND SELECT A VALID USER TYPE . THAN PRESS LOGIN BUTTON | SYSTEM SHOULD SHOW “A NECESSRY FIELD MISSING VALUE” ERROR | PASS |  |
| ***TC10*** | NCT, OT | CHECK MUSCLE TYPES FIELD IN SIGNUP FORM | ENTER VALID PROFILE INFO IN THE CUSTOMER SIGNUP FORM BUT LEAVE THE MUSCLE TYPE FIELD EMPTY. THAN PRESS SIGNUP | SYSTEM SHOULD SHOW” MUSCLE TYPE NOT ENTERED “ ERROR | FAILED | SYSTEM DOES NOT SIGN UP BUT THERE IS NO ERROR MESSAGE |
| ***TC11*** | RST | CHECK SHOW DATA OF CUSTOMERS TO ADMIN | OPEN THE CUSTOMERS SECTION IN THE ADMIN DASHBOARD | THE SYSTEM SHOULD SHOW THE LIST OF ALKL CUSTOMERS AND THEIR DETAILS | PASS |  |
| ***TC12*** | RST | CHECK UPDATE NUTRITION CHART FEATURE | DO APPROPRIATE CHANGES TO A NUTRITION CHART FROM A NUTRITIONIST’S ACCOUNT. THAN CHECK THE RESPECTIVE CHART FROM THE CUSTOMER’S ACCOUNT | THE CHART SHOULD SHOW THE UPDATED INFORMATION | PASS |  |
| ***TC13*** | ST | CHECK EDITABILITY OF TRAINING CHART | OPEN A TRAINING CHART OF A SPECIFIC CUSTOMER FROM AN ADMIN’S ACCOUNT AND TRY TO EDIT IT | SYSTEM SHOULD NOT ALLOW THE ADMIN TO EDIT THE INFORMATION IN A CUSTOMER’S TRAINING CHART | PASS |  |
| ***TC14*** | ST | CHECK USER ACCESSABILITY | ENTER VALID USER NAME AND PASSWORD IN THE LOGIN WINDOW BUT SELECT A DIFFERENT USER TYPE THAN YOURS | THE SYSTEM SHOULD NOT ALLOW LOGIN AND SHOW AN ERROR SAYING “ USER TYPE AND USER INFORMATION DO NOT MATCH” | PASS |  |
| ***TC15*** | EHT | CHECK MUSCLE TYPES FIELD IN SIGNUP FORM | ENTER ACCURATE USER INFO IN A SIGNUP FORM BUT DONOT ENTER ANY MUSCLE TYPE IN THE MUSCLE TYPE FIELD | SYSTEM SHOULD SHOW AN ERROR SAYING “ A NECESSARY FIELD IS EMPTY” AND NOT ALLOW SIGN UP | PASS |  |
| ***TC16*** | EHT | CHECK USER NAME DUPLICATION | SIGN UP WITH A USER NAME THAT HAS ALREADY BEEN USED | USER SHOULD NOT ALLOW SIGN UP SHOWING ERROR “ THE USER NAME IS ALREADY IN USE” | PASS |  |
| ***TC17*** | OT | CHECK FILE TYPE OF IMAGE IN USER PROFILE | IN THE IMAGE FIELD IN USER PROFILE SECTION UPLOAD A FILE THAT IS NOT A JPG OR A PNG | SYSTEM SHOULD NOT LET THE FILE BE UPLOADED AND GIVE AN ERROR THAT SAYS” FILE TYPE NOT APPROPRIATE FOR AN IMAGE” | FAIL | THERE WAS NO FILE TYPE RESTRICTION PRESENT |
| ***TC18*** | OT | CHECK EQUIPMENT NAME DUPLICATION | IN THE ADD EQUIPMENT SECTION ENTER AN EQUIPMENT WITH A NAME THAT ALREADY EXISTS | SYSTEM SHOULD NOYT ALLOW THE EQUIPMENT TO BE SAVED AND SHOW AN ERROR “ THE EQUIPMENT BY THIS NAME ALREADY EXISTS” | FAILED | THE SYSTEM ALLOWS EQUIPMENT NAME DUPLICATION WHICH CAN CAUSE DATA REDUNDANCY |
| ***TC19*** | FT | CHECK IMAGE FIELD IN USER PROFILE | UPLOAD A PDF FILE IN THE IMAGE FIELD OF THE USER PROFILE SECTION | SYSTEM SHOULD NOOT ALLOW THE UPLOAD OF THE FILE | FAIL |  |
| ***TC20*** | FT | CHECK MUSCLE TYPE FIELD | ENTER CORRECT CUSTOMER INFORMATION IN THE SIGN UP FORM BUT ENTER RANDOM CHARACTERS IN THE MUSCLE TYPE FIELD | SYSTEM SHOULD NOT ALLOW SIGN UP BECAUSE OF WRONG INPUT | FAILED | SYSTEM DOES NOT VERIFY THE INPUTS WITH THE GIVEN DATA FOR MUSCLES TYPES |
| ***TC21*** | BVT | CHECK PAY FIELD FOR TRAINER PROFILE | IN THE ADD TRAINER SECTION ON ADMIN PROFILE ENTER TRAINER PAY AS 0 | SYSTEM SHOULD SHOW ERROR SAYING THE FIELD IS INAPPROPRIATE | FAIL | THE SYSTEM DOES NOT SHOW ANY ERROR OR WARNING |
| ***TC22*** | BVT | CHECK PAY FIELD OF NUTRITIONIST PROFILE | IN THE ADD NUTRITIONIST SECTION IN ADMIN DASHBOARD ENTER PAY FOR NUTRITIONIST IN NEGATIVE | SYSTEM SHOULD NOT ADD THE NUTRITIONIST PROFILE AND SHOW INAPPROPRIATE DATA IN FIELD ERROR | FAILED | NO ERROR OR WARNING SHOWN |
| ***TC23*** | ECT | CHECK USER NAME FIELD IN SIGNUP FORM | ENTER ALL THE INFORMATION IN THE SIGNUP FORM AND A USERNAME THAT STARTS WITH A NUMBER AND PRESS SIGNUP | SYSTEM SHOULD NOT ALLOW SIGN IN AND SHOW INAPPROPRIATE NAMING PATTERN | FAILED | NO SUCH ERROR IS SHOWN NOR THE PROCESS STOPED |
| ***TC24*** | ECT | CHECK THE PASSWORD FIELD IN SIGN UP FORM | ENTER ALL THE RIGHT DATA IN SIGN UP FORM AND ENTER A PASSWORD THAT IS LESS THAN 8 CHARACTERS AND CONTAINS ONLY LETTERS | SYSTEM SHOULD SHOW PASSWORD TOO WEEK ERROR AND NOT ALLOW SIGNIN | PASS |  |
| ***TC25*** | BCT | CHECK BUYING DATE IN THE ADD EQUIPMENT SECTION | ENTER ALL NECESSARY INFORMATION IN THE ADD EQQUIPMENT SECTION AND ADD BUYING DATE ONE YEAR AFTER TODAY AND ADD THE EQUIPMENT | THE SYSTEM SHOULD NOT ALLOW THE EQUIPMENT TO BE ADDED AND SHOW INAPPROPRIATE BUYING DATE ERROR | FAIL | NO SUSCH ERROR OR WARNING IS SHOWN |
| ***TC26*** | ECT | CHECK AGE FIELD IN CUSTOMER SIGN UP | ENTER VALID DATA IN THE CUSTOMER SIGN IN FORM AND ENTER AGE ANYWHERE BELOW 18 YEARS AND PRESS SIGNUP | SYSTEM SHOULD SHOW ERROR SAYING “ THE USER IS BELOW AGE ” | PASS |  |
| ***TC27*** | ECT | CHECK CUSTOMER AGE FIELD IN SIGN UP | ENTER VALID DATA IN THE CUSTOMER SIGN IN FORM AND ENTER AGE ANYWHERE ABOVE 60 YEARS AND PRESS SIGNUP | SYSTEM SHOULD SHOW ERROR SAYING “ THE USER IS ABOVE AGE ” | PASS |  |
| ***TC28*** | BCT | CHECK CUSTOMER AGE FIELD IN SIGN UP FORM | ENTER VALID DATA IN THE CUSTOMER SIGN IN FORM AND ENTER AGE 18 YEARS AND PRESS SIGNUP | SYSTEM SHOULD ALLOW SIGN UP | PASS |  |
| ***TC29*** | BCT | CHECK CUSTOMER AGE FIELD IN SIGN UP FORM | ENTER VALID DATA IN THE CUSTOMER SIGN IN FORM AND ENTER AGE 60 YEARS AND PRESS SIGNUP | SYSTEM SHOULD ALLOW SIGN UP | PASS |  |
| ***TC30*** | BCT | CHECK CUSTOMER AGE FIELD IN SIGN UP FORM | ENTER VALID DATA IN THE CUSTOMER SIGN IN FORM AND ENTER AGE 35 YEARS AND PRESS SIGNUP | SYSTEM SHOULD ALLOW SIGN UP | PASS |  |
| ***TC31*** | FT | CHECK ADMIN LOGIN WITH INVALID PASSWORD | IN THE LOGIN PAGE SELECT ADMIN AS THE USER TYPE AND ENTER VALID ADMIN USER NAME BUT WRONG PASSWORD AND PRESS LOGIN | SYSTEM SHOULD SHOW ERROR” USER NAME AND PASSWORD DON’T MATCH”AND NOT LOGIN | PASS |  |
| ***TC32*** | FT,OT | CHECK TRAINER QUALIFICATION FIELD IN SIGNUP SECTION | ENTER VALID TRAINER DATA IN THE SIGN UP SECTION AND LEAVE THE TRAINER QUALIFICATION FIELD EMPTY AND PRESS SIGN UP | SYSTEM SHOULD NOT ALLOW SIGN UP AND SHOW ERROR” THE USER IS MISSING IMPORTANT INFORMATION” | FAIL | NO SUCH ERROR IS SHOWN |
| ***TC33*** | OT | CHECK NEW TRAINER REASSIGNMENT REQUEST | LOOK FOR A TRAINER REASSIGNMENT OPTION IN THE CUSTOMER DASHBOARD | SYSTEM SHOULD BE MISSING THE REQUIRED FUNCTIONALITY IN THE CUSTOMER DASHBOARD | PASS |  |
| ***TC34*** | OT | CHECK NEW NUTRITIONIST REASSIGNMENT REQUEST | LOOK FOR A NUTRITIONIST REASSIGNMENT OPTION IN THE CUSTOMER DASHBOARD | SYSTEM SHOULD BE MISSING THE REQUIRED FUNCTIONALITY IN THE CUSTOMER DASHBOARD | PASS |  |
| ***TC35*** | EHT,NCT | CHECK ASSIGN TRAINER TO CUSTOMER | IN THE ASSIGN TRAINER TO A CUSTOMER SECTION IN ADMIN DASHBOARD PRESS ASSIGN WITHPOUT SELECTING ANY TRAINER | SYSTEM SHOULD NOT ALLOW THE ASSIGNMENT AND SHOW ERROR”NO TRAINER SELECTED” | PASS |  |
| ***TC36*** | EHT,NCT | CHECK ASSIGN NUTRITIONIST TO CUSTOMER | IN THE ASSIGN NUTRITIONIST TO A CUSTOMER SECTION IN ADMIN DASHBOARD PRESS ASSIGN WITHPOUT SELECTING ANY NUTRITIONIST | SYSTEM SHOULD NOT ALLOW THE ASSIGNMENT AND SHOW ERROR”NO NUTRITIONIST SELECTED” | PASS |  |
| ***TC37*** | ST | CHECK PASSWORD MASKING IN LOGIN SECTION | ENTER VALID LOGIN INFGORMATION IN THE LOGIN SECTION | THE PASSWORD FIELD SHOULD CONTAIN \* IN PLACE OF EACH CHARACTER | PASS |  |
| ***TC38*** | ST | CHECK PASSWORD MASKING IN SIGN UP SECTION | ENTER VALID SIGN UP INFGORMATION IN THE SIGN UP SECTION | THE PASSWORD FIELD SHOULD CONTAIN \* IN PLACE OF EACH CHARACTER | PASS |  |
| ***TC39*** | RST | CHECK ADD EQUIPMENT FUNCTION | IN ADMIN SECTION OPEN ADD EQUIPMENT TAB AND ENTER THE VAID EQUIPMENT INFORMATION AND CLICK ADD | THE NEWLY ADDED EQUIPMENT SHOULD BE SHOWN IN THE EQUIPMENT LIST | PASS |  |
| ***TC40*** | RST | CHECK DELETE EQUIPMENT FUNCTIONALITY | IN THE ADMION SECTION IN EQUIPMENT LIST SELECT AN EQUIPMENT RECORD TO BE DELETED AND CLICK DELETE | THE DELETED RECORD SHOULD BE DELETED FROM THE EQUIPMENTS LIST WITH THE PRECEDING REFRESH | PASS |  |
| ***TC41*** | NCT | CHECK EQUIPMENT ID FIELD IN ADD EQUIPMENT | IN ADD EQUIPMENT SECTION ENTER VALID EQUIPMENT DATA AND LEAVE EQUIPMENT ID FIELD EMPTY AND PRESS ADD | SYSTEM SHOULD NOT ADD THE EQUIPMENT AND SHOW ERROR”MISSING A COMPULSORY FIELD” | PASS |  |
| ***TC42*** | NCT | CHECK NIC FIELD IN TRAINER SIGNUP FIELD | ENTER VALID INFORMATION IN TRAINER SIGNUP SECTION AND LEAVE THE NIC FIELD EMPTYAND PRESS SIGNUP | SYSTEM SHOULD NOT SIGN UP AND SHOW ERROR”NIC MISSING” | FAIL | ***NO SUCH ERROR SEEN NOR DOES THE SYSTEM RESTRICT SIGN UP*** |
| ***TC43*** | UT | CHECK SYSTEM LEARNABILITY |  | A NEUBIE SHOULD BE ABLE TO USE THE SYSTEM EFFICIENTY WITH A 45 MINUTE TRAINING SESSION | PASS |  |
| ***TC44*** | UT | CHECK SYSTEM USAGE REMEMBRABILITY |  | A LEARNID USER SHOULD BE ABLE TO REMEMBER THE FUNCTIONALITY OF THE SYSTEM AFTER A BREAK IN USAGE AS LONG AS 2 WEEKS | PASS |  |
| ***TC45*** | UT | CHECK UPDATE TIME OF EQUIPMENT LIST | ADD DELETE OR UPDATE AN EQUIPMENT RECORD AND CHECK THE UPDATED EQUIPMENT LIST | SYSTEM SHOULD UPDATE THE NEW EQUIPMENT LIST WITHIN AS LESS AS 0.5 SECONDS OF UPDATE | PASS |  |
| ***TC46*** | BPT | CHECK DELETE TRAINER BUTTON IN TRAINER LIST | IN THE ADMIN DASHBOARD OPEN TRAINER LIST AND CLICK A DELETE BUTTON SELECTING A TRAINER RECORD YOU WISH TO DELETE | THE TRAINER LIST SHOULD NO LONGER CONTAIN THE TRAINER RECORD THAT YOU DELETED | PASS |  |
| ***TC47*** | BPT | CHECK DELETE NUTRITIONIST BUTTON IN TRAINER LIST | IN THE ADMIN DASHBOARD OPEN NUTRITIONIST LIST AND CLICK A DELETE BUTTON SELECTING A NUTRITIONIST RECORD YOU WISH TO DELETE | THE TRAINER LIST SHOULD NO LONGER CONTAIN THE NUTRITIONIST RECORD THAT YOU DELETED | PASS |  |
| ***TC48*** | BPT | CHECK DELETE EQUIPMENT BUTTON IN EQUIPMENT LIST | IN THE ADMIN DASHBOARD OPEN EQUIPMENT LIST AND CLICK A DELETE BUTTON SELECTING A EQUIPMENT RECORD YOU WISH TO DELETE | THE EQUIPMENT LIST SHOULD NO LONGER CONTAIN THE EQUIPMENT RECORD THAT YOU DELETED | PASS |  |
| ***TC49*** | STT | CHECK TRANSITION FROM SIGN UP PAGE TO DASHBOARD OF TRAINER | IN THE TRAINER SIGN UP SECTION ADD THE REQUIRED INFO AND PRESS SIGNUP | THE SYSTEM SHOULD TRANSITION FROM SIGNUP SECTION TO TRAINER DASHBOARD | PASS |  |
| ***TC50*** | STT | CHECK TRANSITION FROM DASHBOARD TO LOGOUT | IN THE DASHBOARD CLICK THE LOG OUT BUTTON IN THE BOTTOM LEFT CORNER | SYSTEM SHOULD TRANSITION FROM DASHBOARD TO LOGOUT SCREEN | FAIL | THE SYSTEM SHUTS DOWN INSTEAD OF SHOWING A LOGOUT SCREEN |