System Testing

Following are descriptions for all of the system test cases done. They are based on the ten implemented use cases from Payment Management System (PMS).

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| Test Case ID | SystemTest-PMS-Login-001-Sunny01 |
| Purpose | Investigate the execution of the login use case for John Smith(an employee). |
| Test Set Up | The PMS system is set up and working. John Smith (an employee) is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users & employees* contain the following:   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 99 | John | Smith | on | 19 | … | 0 | a… | 2121 … | 1 | Bank of A. | 2020/… |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 99 | john | smith | Favorite Color? | *Red* | First Pet Name? | Ana | Favorite movie? | Matrix | 2020-01-12 | |
| Input | The following sequence is done:   1. John clicks on employee login on the main navigation bar. 2. He enters “1” as Employee ID. 3. Then he enters “john” as User Name. 4. Then he enters “smith” as Password. 5. Finally he clicks on the Login button in the bottom of the form. |
| Expected Output | The system completes the request without exceptions or errors. John would be finally logged in and being able to see the Payroll Management System Employee Module home page. Also there would be no modifications and/or updates to the database as a result of this action. |

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| Test Case ID | SystemTest-PMS-Login-001-Sunny02 |
| Purpose | Investigate the execution of the login use case for SFTalent Co. (an employer). |
| Test Set Up | The PMS system is set up and working. SFTalent Co. is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users & employer* contain the following:   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | |
| Input | The following sequence is done:   1. SFTalent Co. clicks on employer login on the main navigation bar. 2. Then he enters “user1” as User Name. 3. Then he enters “user1” as Password. 4. Finally he clicks on the Login button in the bottom of the form. |
| Expected Output | The system completes the request without exceptions or errors. SFTalent Co. would be finally logged in and being able to see the Payroll Management System Employer Module home page. Also there would be no modifications and/or updates to the database as a result of this action. |

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| Test Case ID | SystemTest-PMS-Login-001-Sunny03 |
| Purpose | Investigate the execution of the login use case for Miami Car Dealership (an employee). |
| Test Set Up | The PMS system is set up and working. Miami Car Dealership is using Firefox as their browser and he is currently on the home page for PMS. Database Tables *users & employer* contain the following:   |  |  | | --- | --- | | *employer* | | | username | password | | mcdlr | 1234$ |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 9 | mcdlr | 1234$ | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-02-12 | |
| Input | The following sequence is done:   1. Miami Car Dealership clicks on employer login on the main navigation bar. 2. Then he enters “mcdlr” as User Name. 3. Then he enters “1234$” as Password. 4. Finally he clicks on the Login button in the bottom of the form. |
| Expected Output | The system completes the request without exceptions or errors. Miami Car Dealership would be finally logged in and being able to see the Payroll Management System Employer Module home page. Also there would be no modifications and/or updates to the database as a result of this action. |

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| Test Case ID | SystemTest-PMS-Login-001-Rainy01 |
| Purpose | Investigate the proper execution of the login use case for John Smith (an employee). |
| Test Set Up | The PMS system is set up and working. John Smith (an employee) is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users & employees* contain the following:   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 99 | John | Smith | on | 19 | … | 0 | a… | 2121 … | 1 | Bank of A. | 2020/… |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 99 | john | smith | Favorite Color? | *Red* | First Pet Name? | Ana | Favorite movie? | Matrix | 2020-01-12 | |
| Input | The following sequence is done:   1. John clicks on employee login on the main navigation bar. 2. He enters “1” as Employee ID. 3. Then he enters “smith” as Password. 4. Finally he clicks on the Login button in the bottom of the form. |
| Expected Output | The system cannot complete the request without exceptions or errors. John would see an error message displayed on the screen with the “Error : fail” message shown. This is because he left the User Name field of the login form blank. All three fields are required for a successful login request. Also there would be no modifications and/or updates to the database as a result of this action. |

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| Test Case ID | SystemTest-PMS-Login-001-Rainy02 |
| Purpose | Investigate the proper execution of the login use case for James Brown (an employee). |
| Test Set Up | The PMS system is set up and working. James Brown (an employee) is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users & employees* contain the following (Note that none of the displayed tables contain any related information to this employee).   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | … | … | … | … | … | … | … | … | … | 1 | … | … |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | … | … | … | … | *…* | … | … | … | … | … | |
| Input | The following sequence is done:   1. James clicks on employee login on the main navigation bar. 2. He enters “624200” as Employee ID. 3. He enters “jbrown” as User Name. 4. Then he enters “Pa$sw0rd” as Password. 5. Finally he clicks on the Login button in the bottom of the form. |
| Expected Output | The system cannot complete the request without exceptions or errors. James would see an error message displayed on the screen with the “Error : fail” message shown. This is because he has not registered for an employee account yet or in other words, the database does not contain his information or neither credentials. Also there would be no modifications and/or updates to the database as a result of this action. |

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| Test Case ID | SystemTest-PMS-Login-001-Rainy03 |
| Purpose | Investigate the proper execution of the login use case for SFTalent Co. (an employer). |
| Test Set Up | The PMS system is set up and working. SFTalent Co. is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users & employer* contain the following:   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | |
| Input | The following sequence is done:   1. SFTalent Co. clicks on employer login on the main navigation bar. 2. Then he enters “user1” as User Name. 3. Then he enters “pass” as Password. 4. Finally he clicks on the Login button in the bottom of the form. |
| Expected Output | The system cannot complete the request without exceptions or errors. John would see an error message displayed on the screen with the “Error : fail” message shown. This is because they did not enter the correct password for the user1. Also there would be no modifications and/or updates to the database as a result of this action. |

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| Test Case ID | SystemTest-PMS-AddEmployee-002-Sunny01 |
| Purpose | Investigate the proper execution of the add employee case for Sara Smith (an employee) for SFTalent Co. (the employer ) |
| Test Set Up | The PMS system is set up and working. SFTalent Co. (an employer) is using Chrome as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users & employer* contain the following. It is also assumed that the employer, SFTalent Co., is already logged in to the PMS with their employer account.   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | |
| Input | The following sequence is done:   1. SFTalent Co. hovers on the employee option in the main navigation bar of the employer module. 2. Then they click on the Add Employee option in the drop down menu shown. 3. Then he enters “2” in Employee ID. 4. Then he enters “Sara” in First Name. 5. Then he enters “Smith” in Last Name. 6. He chooses Female in their gender. 7. He enters “1990-01-01” in the Date of Birth (YYYY-MM-DD). 8. He enters “Sales Assistant” in Job Role field. 9. He enters “3053458989” in their Contact. 10. He enters [sara.smith@email.com](mailto:sara.smith@email.com) as Email 11. He enters “3456 NW 10th Ave” in the Address. 12. He enters “1234567999” in Account Number. 13. He enters “Bank of America” in bank name. 14. Finally he clicks on the Add button in the bottom of the form. |
| Expected Output | The system completes the request without exceptions or errors. An alert message saying “Employee Details Added”. Following row(s) will be added to employees table in database.   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 2 | Sara | Smith | on | ... | … | 305… | … | … | … | Bank of … | 2020… | |

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| Test Case ID | SystemTest-PMS-AddEmployee-002-Sunny02 |
| Purpose | Investigate the proper execution of the add employee case for John Smith (an employee) for SFTalent Co. (the employer ) |
| Test Set Up | The PMS system is set up and working. SFTalent Co. (an employer) is using Chrome as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users & employer* contain the following. It is also assumed that the employer, SFTalent Co., is already logged in to the PMS with their employer account.   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | |
| Input | The following sequence is done:   1. SFTalent Co. hovers on the employee option in the main navigation bar of the employer module. 2. Then they click on the Add Employee option in the drop down menu shown. 3. Then he enters “2” in Employee ID. 4. Then he enters “John” in First Name. 5. Then he enters “Smith” in Last Name. 6. He chooses Male in their gender. 7. He enters “1980-01-01” in the Date of Birth (YYYY-MM-DD). 8. He enters “Finance Manager” in Job Role field. 9. He enters “3050000000” in their Contact. 10. He enters john.smith@email.com as Email 11. He enters “3456 NW 10th Ave” in the Address. 12. He enters “1234567777” in Account Number. 13. He enters “Bank of America” in bank name. 14. Finally he clicks on the Add button in the bottom of the form. |
| Expected Output | The system completes the request without exceptions or errors. An alert message saying “Employee Details Added”. Following row(s) will be added to employees table in database. Note that even though emp\_id = 2 was not a unique value and were used for Sara Smith as well, and that did not affected the employee registration process.   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 2 | John | Smith | on | ... | … | 305… | … | … | … | Bank of … | 2020… | | 2 | Sara | Smith | on | … | … | 305… | …. | … | … | Bank of … | 2020… | |

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| Test Case ID | SystemTest-PMS-AddEmployee-002-Sunny03 |
| Purpose | Investigate the proper execution of the add employee case for Albert Lee Smith (an employee) for Miami Car Dealership (the employer ) |
| Test Set Up | The PMS system is set up and working. Miami Car Dealership (an employer) is using Firefox as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users & employer* contain the following. It is also assumed that the employer, Miami Car Dealership, is already logged in to the PMS with their employer account.   |  |  | | --- | --- | | *employer* | | | username | password | | mcdlr | 1234$ |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 9 | mcdlr | 1234$ | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-02-12 | |
| Input | The following sequence is done:   1. Miami Car Dealership. hovers on the employee option in the main navigation bar of the employer module. 2. Then they click on the Add Employee option in the dropdown menu shown. 3. Then he enters “3” in Employee ID. 4. Then he enters “Albert” in First Name. 5. Then he enters “Lee” in Last Name. 6. He enters “1996-11-05” in the Date of Birth (YYYY-MM-DD). 7. He enters “Finance Manager” in Job Role field. 8. He enters “8574567890” in their Contact. 9. He enters alber.lee@gmx.com as Email 10. He enters “009878678” in Account Number. 11. He enters “Wells Fargo” in bank name. 12. Finally he clicks on the Add button in the bottom of the form. |
| Expected Output | The system completes the request without exceptions or errors. An alert message saying “Employee Details Added”. Following row(s) will be added to employees table in database. Note that even though emp\_id = 2 was not a unique value and were used for Sara Smith as well, and that did not affected the employee registration process. Also gender and address columns will be NULL since there were no input during registration.   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 3 | Albert | Lee | *NULL* | ... | … | 857… | … | *NULL* | … | Wells… | 2020… | |

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| Test Case ID | SystemTest-PMS-AddEmployee-002-Rainy01 |
| Purpose | Investigate the improper execution of the add employee case for John Smith (an employee) for SFTalent Co. (the employer) |
| Test Set Up | The PMS system is set up and working. SFTalent Co. (an employer) is using Chrome as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users & employer* contain the following. It is also assumed that the employer, SFTalent Co., is already logged in to the PMS with their employer account.   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | |
| Input | The following sequence is done:   1. SFTalent Co. hovers on the employee option in the main navigation bar of the employer module. 2. Then they click on the Add Employee option in the drop down menu shown. 3. Then he enters “2” in Employee ID. 4. Then he enters “John” in First Name. 5. Then he enters “Smith” in Last Name. 6. He chooses Female in their gender. 7. He enters “1990-21-10” in the Date of Birth (not YYYY-MM-DD). 8. He enters “Sales Assistant” in Job Role field. 9. He enters “3050000000” in their Contact. 10. He enters john.smith@email.com as Email 11. He enters “3456 NW 10th Ave” in the Address. 12. He enters “1234567999” in Account Number. 13. He enters “Bank of America” in bank name. 14. Finally he clicks on the Add button in the bottom of the form. |
| Expected Output | The system cannot complete the request without exceptions or errors. SFTalent Co. would see an error message displayed on the screen with the “Error : Employee Registration Failed” message shown. This is because the date format entered in the Date of Birth field was not YYYY-MM-DD which is the proper required format. As a result of this action there would be no changes to database table entries. |

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| Test Case ID | SystemTest-PMS-AddEmployee-002-Rainy02 |
| Purpose | Investigate the improper execution of the add employee case for John Smith (an employee) for SFTalent Co. (the employer) |
| Test Set Up | The PMS system is set up and working. SFTalent Co. (an employer) is using Chrome as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users & employer* contain the following. It is also assumed that the employer, SFTalent Co., is already logged in to the PMS with their employer account.   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | |
| Input | The following sequence is done:   1. SFTalent Co. hovers on the employee option in the main navigation bar of the employer module. 2. Then they click on the Add Employee option in the drop down menu shown. 3. Then he enters “2” in Employee ID. 4. Then he enters “John” in First Name. 5. Then he enters “Smith” in Last Name. 6. He chooses Female in their gender. 7. He enters “1990-01-01” in the Date of Birth (YYYY-MM-DD). 8. He enters “Sales Assistant” in Job Role field. 9. He enters “305-000-0000” in their Contact. 10. He enters john.smith@email.com as Email 11. He enters “3456 NW 10th Ave” in the Address. 12. He enters “1234567999” in Account Number. 13. He enters “Bank of America” in bank name. 14. Finally he clicks on the Add button in the bottom of the form. |
| Expected Output | The system cannot complete the request without exceptions or errors. SFTalent Co. would see an error message displayed on the screen with the message that says please enter a number for Contact field. The format is supposed to be without the dashes for the phone number in the contact field. As a result of this action there would be no changes to database table entries. |

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| Test Case ID | SystemTest-PMS-SecurityQuestion-003-Sunny01 |
| Purpose | Investigate the proper execution of the security question security use case for Adam Sandler (an employee). |
| Test Set Up | The PMS system is set up and working. Adam Sandler (an employee) is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users* contain the following. It is also assumed that the employee, Adam Sandler, is aware of their employee id and user name as well as a temporary password, in addition to security questions and answers.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | adam | adam | Favorite Color? | pink | First pet name? | adam | Favorite movie? | adam | 2020-01-12 | |
| Input | The following sequence is done:   1. Adam Sandler first clicks on the employee login button on the main navigation bar on PMS homepage. 2. Then he clicks on the *Forgot Password?* Hyperlink. 3. He inputs “1” in the Employee ID field. 4. He then inputs “adam” in the User Name field. 5. He then chooses “Favorite Color?” as Security Question 1. 6. He then inputs “pink” in the answer for question 1. 7. He then chooses “First Pet name?” as Security Question 2. 8. He then inputs “adam” in the answer for question 2. 9. He then chooses “Favorite Movie?” as Security Question 3. 10. He then inputs “adam” in the answer for question 3. |
| Expected Output | The system completes the request without exceptions or errors. An alert message saying “Your password= adam”. As a result of this action there would be no updates and/or modifications to the database entries. As a result of this action there would be no changes to the database entries. |

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| Test Case ID | SystemTest-PMS-SecurityQuestion-003-Sunny02 |
| Purpose | Investigate the proper execution of the security question security use case for John Smith (an employee). |
| Test Set Up | The PMS system is set up and working. John Smith (an employee) is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users* contain the following. It is also assumed that the employee, John Smith, is aware of their employee id and user name as well as a temporary password, in addition to security questions and answers.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 99 | john | smith | Favorite Color? | *Red* | First Pet Name? | Ana | Favorite movie? | Matrix | 2020-01-12 | |
| Input | The following sequence is done:   1. John Smith first clicks on the employee login button on the main navigation bar on PMS homepage. 2. Then he clicks on the *Forgot Password?* Hyperlink. 3. He inputs “99” in the Employee ID field. 4. He then inputs “john” in the User Name field. 5. He then chooses “Favorite Color?” as Security Question 1. 6. He then inputs “Red” in the answer for question 1. 7. He then chooses “First Pet name?” as Security Question 2. 8. He then inputs “Ana” in the answer for question 2. 9. He then chooses “Favorite Movie?” as Security Question 3. 10. He then inputs “Matrix” in the answer for question 3. |
| Expected Output | The system completes the request without exceptions or errors. An alert message saying “Your password= smith”. As a result of this action there would be no updates and/or modifications to the database entries. As a result of this action there would be no changes to the database entries. |

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| Test Case ID | SystemTest-PMS-SecurityQuestion-003-Sunny03 |
| Purpose | Investigate the proper execution of the security question security use case for Sara Smith (an employee). |
| Test Set Up | The PMS system is set up and working. Sara Smith (an employee) is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users* contain the following. It is also assumed that the employee, Sara Smith is aware of their employee id and user name as well as a temporary password, in addition to security questions and answers.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 98 | sara | smith | Favorite Color? | *White* | First Pet Name? | Dana | Favorite movie? | Matrix | 2020-01-12 | |
| Input | The following sequence is done:   1. Sara Smih first clicks on the employee login button on the main navigation bar on PMS homepage. 2. Then She clicks on the *Forgot Password?* Hyperlink. 3. She inputs “98” in the Employee ID field. 4. She then inputs “sara” in the User Name field. 5. She then chooses “Favorite Color?” as Security Question 1. 6. She then inputs “White” in the answer for question 1. 7. She then chooses “First Pet name?” as Security Question 2. 8. She He then chooses “Favorite Movie?” as Security Question 3. 9. She then inputs “Matrix” in the answer for question 3. |
| Expected Output | The system completes the request without exceptions or errors. An alert message saying “Your password= smith”. As a result of this action there would be no updates and/or modifications to the database entries. As a result of this action there would be no changes to the database entries. |

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| Test Case ID | SystemTest-PMS-SecurityQuestion-003-Rainy01 |
| Purpose | Investigate the proper execution of the security question security use case for Adam Sandler (an employee). |
| Test Set Up | The PMS system is set up and working. Adam Sandler (an employee) is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users* contain the following. It is also assumed that the employee, Adam Sandler, is aware of their employee id and user name as well as a temporary password, in addition to security questions and answers.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | adam | adam | Favorite Color? | pink | First pet name? | adam | Favorite movie? | adam | 2020-01-12 | |
| Input | The following sequence is done:   1. Adam Sandler first clicks on the employee login button on the main navigation bar on PMS homepage. 2. Then he clicks on the *Forgot Password?* Hyperlink. 3. He inputs “1” in the Employee ID field. 4. He then inputs “adam” in the User Name field. 5. He then chooses “Favorite Color?” as Security Question 1. 6. He then inputs “pink” in the answer for question 1. 7. He then chooses “First Pet name?” as Security Question 2. 8. He then inputs “idk” in the answer for question 2. 9. He then chooses “Favorite Movie?” as Security Question 3. 10. He then inputs “adam” in the answer for question 3. |
| Expected Output | The system cannot complete the request without any exceptions or errors. An alert error will be displayed showing the message “user details not found”. This happened due to the incorrect answer for second security question. As a result of this action there would be no changes to the database entries. |

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| Test Case ID | SystemTest-PMS-SecurityQuestion-003-Rainy02 |
| Purpose | Investigate the proper execution of the security question security use case for Adam Sandler (an employee). |
| Test Set Up | The PMS system is set up and working. Adam Sandler (an employee) is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users* contain the following. It is also assumed that the employee, Adam Sandler, is aware of their employee id and user name as well as a temporary password, in addition to security questions and answers.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | adam | adam | Favorite Color? | pink | First pet name? | adam | Favorite movie? | adam | 2020-01-12 | |
| Input | The following sequence is done:   1. Adam Sandler first clicks on the employee login button on the main navigation bar on PMS homepage. 2. Then he clicks on the *Forgot Password?* Hyperlink. 3. He inputs “1” in the Employee ID field. 4. He then inputs “adam” in the User Name field. 5. He then chooses “Favorite Color?” as Security Question 1. 6. He then inputs “pink” in the answer for question 1. 7. He then chooses “First Pet name?” as Security Question 2. 8. He then inputs “adam” in the answer for question 2. 9. He then chooses “First Pet name?” as Security Question 3. 10. He then inputs “adam” in the answer for question 3. |
| Expected Output | The system cannot complete the request without any exceptions or errors. An alert error will be displayed showing the message “user details not found”. This happened due to the incorrect security question chosen for the third security question. As a result of this action there would be no changes to the database entries. |

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| Test Case ID | SystemTest-PMS-SecurityQuestion-003-Rainy03 |
| Purpose | Investigate the proper execution of the security question security use case for James Brown (an employee). |
| Test Set Up | The PMS system is set up and working. James Brown (an employee) is using Chrome as their browser and he is currently on the home page for PMS. Database Tables *users* contain the following. It is also assumed that the employee, James Brown, is aware of their employee id and user name as well as a temporary password, in addition to security questions and answers. Note that users table does not contain any related information or credentials related to James Brown.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | … | … | … | … | … | … | … | … | … | … | |
| Input | The following sequence is done:   1. James Brown first clicks on the employee login button on the main navigation bar on PMS homepage. 2. Then he clicks on the *Forgot Password?* Hyperlink. 3. He inputs “999” in the Employee ID field. 4. He then inputs “james” in the User Name field. 5. He then chooses “Favorite Color?” as Security Question 1. 6. He then inputs “yellow” in the answer for question 1. 7. He then chooses “First Pet name?” as Security Question 2. 8. He then inputs “max” in the answer for question 2. 9. He then chooses “First Pet name?” as Security Question 3. 10. He then inputs “dog” in the answer for question 3. |
| Expected Output | The system cannot complete the request without any exceptions or errors. An alert error will be displayed showing the message “user details not found”. This happened due to lack of credentials for James Brown in the database entries. As a result of this action there would be no changes to the database entries. |

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| Test Case ID | SystemTest-PMS-ModifyTS-004-Sunny01 |
| Purpose | Investigate the proper execution of the modify timesheet use case for SFTalent Co. (an employer) and Adam Sandler (an employee). |
| Test Set Up | The PMS system is set up and working. SFTalent Co. is using Chrome as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users, employer, employees & emp\_ts* contain the following. Note that it is assumed that the SFTalent Co. (the employer) is already logged in and viewing the homepage of PMS employer module.   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | | 1 | adam | adam | Favorite Color? | pink | First pet name? | adam | Favorite movie? | adam | 2020-01-12 |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 1 | Adam | Sandler | on | … | … | 0 | a… | 2121 … | 1 | Bank of A. | 2020/… |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | emp\_ts | | | | | | | | | | | | ets\_id | emp\_id | day | wdate | intime | lunch\_out | lunch\_in | outtime | total \_hours | status | date1 | | 1144 | 1 | Monday | 2020-01-01 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1114 | 1 | Tuesday | 2020-01-02 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1172 | 1 | Wednesday | 2020-01-03 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1341 | 1 | Thursday | 2020-01-04 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1800 | 1 | Friday | 2020-01-05 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | |
| Input | The following sequence is done:   1. SFTalent Co. hovers on Time Sheets menu option on the main navigation bar for employer module. 2. He then clicks on View Time Sheets. 3. He then selects “1” as Employee ID. 4. He clicks on Get Details button next to the drop-down list. 5. He then modifies the in time column of the row indicated with TS\_ID = 1800, from 10:00:00 to 09:00:00. 6. He also modifies the total hours entry for the same column to 12 7. Finally he clicks on Update Time Sheet button. |
| Expected Output | The system completes the request without exceptions or errors. SFTalent Co. would be finally modified the time sheet of Adam Sandler (an employee). An alert message saying “time sheet updated” will be shown. Also as a result of this action, the effected row of the emp\_ts table in the database entries will be updated as follows.   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | emp\_ts | | | | | | | | | | | | ets\_id | emp\_id | day | wdate | intime | lunch\_out | lunch\_in | outtime | total \_hours | status | date1 | | 1800 | 1 | Friday | 2020-01-05 | 09:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 12 | approv. | 2020-01-14 | |

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| Test Case ID | SystemTest-PMS-ModifyTS-004-Sunny02 |
| Purpose | Investigate the proper execution of the modify timesheet use case for SFTalent Co. (an employer) and Adam Sandler (an employee). |
| Test Set Up | The PMS system is set up and working. SFTalent Co. is using Chrome as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users, employer, employees & emp\_ts* contain the following. Note that it is assumed that the SFTalent Co. (the employer) is already logged in and viewing the homepage of PMS employer module.   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | | 1 | adam | adam | Favorite Color? | pink | First pet name? | adam | Favorite movie? | adam | 2020-01-12 |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 1 | Adam | Sandler | on | … | … | 0 | a… | 2121 … | 1 | Bank of A. | 2020/… |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | emp\_ts | | | | | | | | | | | | ets\_id | emp\_id | day | wdate | intime | lunch\_out | lunch\_in | outtime | total \_hours | status | date1 | | 1144 | 1 | Monday | 2020-01-01 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1114 | 1 | Tuesday | 2020-01-02 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1172 | 1 | Wednesday | 2020-01-03 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1341 | 1 | Thursday | 2020-01-04 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1800 | 1 | Friday | 2020-01-05 | 09:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | |
| Input | The following sequence is done:   1. SFTalent Co. hovers on Time Sheets menu option on the main navigation bar for employer module. 2. He then clicks on View Time Sheets. 3. He then selects “1” as Employee ID. 4. He clicks on Get Details button next to the drop-down list. 5. He then modifies the outtime column of the row indicated with TS\_ID = 1172, from 22:00:00 to 18:00:00. 6. Finally he clicks on Update Time Sheet button. |
| Expected Output | The system completes the request without exceptions or errors. SFTalent Co. would be finally modified the time sheet of Adam Sandler (an employee). An alert message saying “time sheet updated” will be shown. Also as a result of this action, the effected row of the emp\_ts table in the database entries will be updated as follows. Note that total hours column will not be automatically affected as a result of this action.   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | emp\_ts | | | | | | | | | | | | ets\_id | emp\_id | day | wdate | intime | lunch\_out | lunch\_in | outtime | total \_hours | status | date1 | | 1172 | 1 | Wednesday | 2020-01-03 | 10:00:00 | 12:00:00 | 13:00:00 | 18:00:00 | 11 | approv. | 2020-01-14 | |

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| Test Case ID | SystemTest-PMS-CalcSal-005-Sunny01 |
| Purpose | Investigate the proper execution of the calculate salary use case for SFTalent Co. (an employer) and Adam Sandler (an employee). |
| Test Set Up | The PMS system is set up and working. SFTalent Co. is using Chrome as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users, employer, employees, emp\_ts & paymode* contain the following. Note that it is assumed that the SFTalent Co. (the employer) is already logged in and viewing the homepage of PMS employer module.   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  | | --- | --- | | *paymode* | | | normal\_pay | extra\_pay | | 10 | 15 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | | 1 | adam | adam | Favorite Color? | pink | First pet name? | adam | Favorite movie? | adam | 2020-01-12 |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 1 | Adam | Sandler | on | … | … | 0 | a… | 2121 … | 1 | Bank of A. | 2020/… |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | emp\_ts | | | | | | | | | | | | ets\_id | emp\_id | day | wdate | intime | lunch\_out | lunch\_in | outtime | total \_hours | status | date1 | | 1144 | 1 | Monday | 2020-01-01 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1114 | 1 | Tuesday | 2020-01-02 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1172 | 1 | Wednesday | 2020-01-03 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1341 | 1 | Thursday | 2020-01-04 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1800 | 1 | Friday | 2020-01-05 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 9 | approv. | 2020-01-14 | |
| Input | The following sequence is done:   1. SFTalent Co. hovers on Salary menu option on the main navigation bar for employer module. 2. He then clicks on Calculate Pay. 3. He then clicks on Calculate button. |
| Expected Output | The system completes the request without exceptions or errors. SFTalent Co. finally calculated all salaries for the current time sheets for all of their employees including Adam Sandler. An alert message showing “Pay Calculations completed” will be shown. As a result of this action a row containing the following data entries will be added to the salaries table in the database.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *salaries* | | | | | | | emp\_id | total\_hours | tax | gross\_sal | net\_sal | date1 | | 1 | 53 | 159 | 530 | 371 | 2020-02-17 | |

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| Test Case ID | SystemTest-PMS-ModifyTS-004-Rainy01 |
| Purpose | Investigate the improper execution of the modify timesheet use case for SFTalent Co. (an employer) and Adam Sandler (an employee). |
| Test Set Up | The PMS system is set up and working. SFTalent Co. is using Chrome as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users, employer, employees & emp\_ts* contain the following. Note that it is assumed that the SFTalent Co. (the employer) is already logged in and viewing the homepage of PMS employer module.   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | | 1 | adam | adam | Favorite Color? | pink | First pet name? | adam | Favorite movie? | adam | 2020-01-12 |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 1 | Adam | Sandler | on | … | … | 0 | a… | 2121 … | 1 | Bank of A. | 2020/… |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | emp\_ts | | | | | | | | | | | | ets\_id | emp\_id | day | wdate | intime | lunch\_out | lunch\_in | outtime | total \_hours | status | date1 | | 1144 | 1 | Monday | 2020-01-01 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1114 | 1 | Tuesday | 2020-01-02 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1172 | 1 | Wednesday | 2020-01-03 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1341 | 1 | Thursday | 2020-01-04 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1800 | 1 | Friday | 2020-01-05 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | |
| Input | The following sequence is done:   1. SFTalent Co. hovers on Time Sheets menu option on the main navigation bar for employer module. 2. He then clicks on View Time Sheets. 3. He then selects “1” as Employee ID. 4. He clicks on Get Details button next to the drop-down list. 5. He then modifies the outtime column of the row indicated with TS\_ID = 1800, from 22:00:00 to 9:00 PM. 6. He also modifies the total hours entry for the same column to 11 7. Finally he clicks on Update Time Sheet button. |
| Expected Output | The system cannot complete the request without any exceptions or errors. SFTalent Co. would be shown an error message saying “Incorrect time value : 9:00 PM”. This is due to the improper format of the time used. It should be 00:00:00 format with 24 hour system not the AM/PM format. As a result of this action there would be no changes to the database entries. |

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| Test Case ID | SystemTest-PMS-ModifyTS-004-Rainy02 |
| Purpose | Investigate the improper execution of the modify timesheet use case for SFTalent Co. (an employer) and Adam Sandler (an employee). |
| Test Set Up | The PMS system is set up and working. SFTalent Co. is using Chrome as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users, employer, employees & emp\_ts* contain the following. Note that it is assumed that the SFTalent Co. (the employer) is already logged in and viewing the homepage of PMS employer module.   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | | 1 | adam | adam | Favorite Color? | pink | First pet name? | adam | Favorite movie? | adam | 2020-01-12 |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 1 | Adam | Sandler | on | … | … | 0 | a… | 2121 … | 1 | Bank of A. | 2020/… |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | emp\_ts | | | | | | | | | | | | ets\_id | emp\_id | day | wdate | intime | lunch\_out | lunch\_in | outtime | total \_hours | status | date1 | | 1144 | 1 | Monday | 2020-01-01 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1114 | 1 | Tuesday | 2020-01-02 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1172 | 1 | Wednesday | 2020-01-03 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1341 | 1 | Thursday | 2020-01-04 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1800 | 1 | Friday | 2020-01-05 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | |
| Input | The following sequence is done:   1. SFTalent Co. hovers on Time Sheets menu option on the main navigation bar for employer module. 2. He then clicks on View Time Sheets. 3. He then selects “1” as Employee ID. 4. He clicks on Get Details button next to the drop-down list. 5. He then modifies the outtime column of the row indicated with TS\_ID = 1800, from 22:00:00 to 9:00 PM. 6. He also clears the value of total hours entry for the same column so it becomes an emoty field. 7. Finally he clicks on Update Time Sheet button. |
| Expected Output | The system cannot complete the request without any exceptions or errors. SFTalent Co. would be shown an error message saying “You have an error in your SQL syntax: …”. This is because the total hours field must always be filled and cannot be left empty or NULL ,even though other in and out time entries might be left empty. As a result of this action there would be no changes to the database entries. |

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| Test Case ID | SystemTest-PMS-CalcSal-005-Sunny02 |
| Purpose | Investigate the proper execution of the calculate salary use case for SFTalent Co. (an employer) and Adam Sandler (an employee). |
| Test Set Up | The PMS system is set up and working. SFTalent Co. is using Chrome as their browser and he is currently on the home page for PMS Employer Module. Database Tables *users, employer, employees & emp\_ts* contain the following. Note that it is assumed that the SFTalent Co. (the employer) is already logged in and viewing the homepage of PMS employer module. Note that in this test case paymode table in the database does not have any entries yet.   |  |  | | --- | --- | | *employer* | | | username | password | | user1 | user1 |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *users* | | | | | | | | | | | emp\_id | user\_id | password | sec\_que1 | ans1 | sec\_que2 | ans2 | sec\_que3 | ans3 | createDate | | 1 | user1 | user1 | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | *NULL* | 2020-01-12 | | 1 | adam | adam | Favorite Color? | pink | First pet name? | adam | Favorite movie? | adam | 2020-01-12 |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *employees* | | | | | | | | | | | | | emp\_id | first\_name | last\_name | gender | dob | job | phone | email | address | accno | bankname | joindate | | 1 | Adam | Sandler | on | … | … | 0 | a… | 2121 … | 1 | Bank of A. | 2020/… |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | emp\_ts | | | | | | | | | | | | ets\_id | emp\_id | day | wdate | intime | lunch\_out | lunch\_in | outtime | total \_hours | status | date1 | | 1144 | 1 | Monday | 2020-01-01 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1114 | 1 | Tuesday | 2020-01-02 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1172 | 1 | Wednesday | 2020-01-03 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1341 | 1 | Thursday | 2020-01-04 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 11 | approv. | 2020-01-14 | | 1800 | 1 | Friday | 2020-01-05 | 10:00:00 | 12:00:00 | 13:00:00 | 22:00:00 | 9 | approv. | 2020-01-14 | |
| Input | The following sequence is done:   1. SFTalent Co. hovers on Salary menu option on the main navigation bar for employer module. 2. He then clicks on Pay Mode. 3. He then inputs “15” in Actual Pay field. 4. He then inputs “20” in Extra Time Pay field. 5. He again hovers on Salary option in menu bar. 6. He clicks on Calculate Pay this time. 7. He finally clicks on Calculate button. |
| Expected Output | The system completes the request without exceptions or errors. SFTalent Co. finally calculated all salaries for the current time sheets for all of their employees including Adam Sandler. An alert message showing “Pay Calculations completed” will be shown. As a result of this action a row containing the following data entries will be added to the salaries table in the database as well as paymode table.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *salaries* | | | | | | | emp\_id | total\_hours | tax | gross\_sal | net\_sal | date1 | | 1 | 53 | 238.5 | 795 | 556.5 | 2020-02-17 |  |  |  | | --- | --- | | *paymode* | | | normal\_pay | extra\_pay | | 15 | 20 | |