Partitions [ControllerExpense.java]:

|  |  |  |  |
| --- | --- | --- | --- |
| Partition ID | Input Variable | Valid Partition | Invalid Partition |
| 1 | Expense amount | Amount >= 0 | - |
| 2 | Expense amount | Amount is a number | - |
| 3 | Expense amount | - | Amount = 0 |
| 4 | Expense amount | - | Amount < 0 |
| 5 | Expense amount |  | Amount is alphanumerical |
| 6 | Expense details | Details is alphanumerical | - |
| 7 | Expense details |  | Details is null |
| 8 | Expense details | Details is empty string | - |

Test Case Specifications [ControllerExpenseTest.java]

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test inputs | Expected output | Partition ID |
| 1 | Expense = 300 | true | 1 |
| 2 | Expense = 0 | False | 3 |
| 3 | Expense = -76 | False | 4 |
| 4 | Expense = test09 | False | 2, 5 |
| 5 | Details = Test 01 | True | 6 |
| 6 | Details = null | False | 7 |
| 7 | Details = “” | True | 8 |

Partition [ControllerDetails.java]

|  |  |  |  |
| --- | --- | --- | --- |
| Partition ID | Input | Valid Partition | Invalid Partition |
| 1 | Savings Goal | Goal is a number |  |
| 2 | Savings Goal |  | Goal is alphanumerical |
| 3 | Savings Goal | Goal > 0 |  |
| 4 | Savings Goal |  | Goal <= 0 |
| 5 | Income | Income is a number |  |
| 6 | Income |  | Income is alphanumerical |
| 7 | Income | Income >= 0 |  |
| 8 | Income |  | Income < 0 |
| 9 | Income Day | 31>= day > 0 |  |
| 10 | Income Day |  | Day == 0 |

Test Case Specifications [ControllerDetailsTest.java]

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test inputs | Expected output | Partition ID |
| 1 | Goal = 200 | True | 1, 3 |
| 2 | Goal = test01 | False | 2 |
| 3 | Goal = -10 | False | 4 |
| 4 | Income = 150 | True | 5, 7 |
| 5 | Income = test02 | False | 6 |
| 6 | Income = -100 | False | 8 |
| 7 | Income Day = 16 | True | 9 |
| 8 | Income Day = 0 | False | 10 |

Partition [Controller Login[create user]]:

|  |  |  |  |
| --- | --- | --- | --- |
| Partition ID | Input | Valid Partition | Invalid Partition |
| 1 | Name | Is a non-empty string |  |
| 2 | Name |  | Is empty |
| 3 | Name |  | Is null |
| 4 | Last Name | Is a non-empty string |  |
| 5 | Last Name |  | Is empty |
| 6 | Last Name |  | Is null |
| 7 | Username | Is an alphanumerical string |  |
| 8 | Username |  | Username is Empty String |
| 9 | Username |  | Username is null |
| 10 | Username | Non exiting username |  |
| 11 | Username |  | Existing username |
| 12 | Password | Password is an alphanumerical string |  |
| 13 | Password |  | Password is Empty |
| 14 | Password |  | Password is null |
| 15 | PIN | Pin is numerical |  |
| 16 | PIN |  | PIN is alphanumerical |
| 17 | PIN |  | PIN is empty |
| 18 | PIN |  | PIN is null |
| 19 | PIN | Pin length = 4 |  |
| 20 | PIN |  | Pin length > 4 |
| 21 | PIN |  | Pin length < 4 |

Test Case Specifications: [ControllerLoginTest.java] (create user):

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test input | Expected output | Partition ID |
| 1 | Name = Luke | True | 1 |
| 2 | Name = “” | False | 2 |
| 3 | Name = null | False | 3 |
| 4 | Last = Skywalker | True | 4 |
| 5 | Last = “” | False | 5 |
| 6 | Last = null | False | 6 |
| 7 | Username = luke01 | True | 7 |
| 8 | Username = “” | False | 8 |
| 9 | Username = null | False | 9 |
| 10 | Password = “test01” | True | 12 |
| 11 | Password = “” | False | 13 |
| 12 | Password = null | False | 14 |
| 13 | PIN = 1234 | True | 15, 19 |
| 14 | PIN = 12ab | False | 16 |
| 15 | PIN = “” | False | 17 |
| 16 | PIN = null | False | 18 |
| 17 | PIN = 12345 | False | 20 |
| 18 | PIN = 123 | False | 21 |