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| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Description | Test Procedure | Input Test Data | Error Message | Expected Results | Actual Results | Pass/Fail |
| 1 | **Round 1: Active**  Validate that when bid more than vacancy, minimum price set as clearing price | Bootstrap data file.  Run BidStatusJSON | File: SampleDataJSONTest.zip  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 5,  "min-bid-amount": 12.0,  "students": [  {  "userid": "gary.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "pending"  },  {  "userid": "fred.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "pending"  },  {  "userid": "eddy.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "pending"  },  {  "userid": "dawn.ng.2009",  "amount": 13.0,  "balance": 187.0,  "status": "pending"  },  {  "userid": "calvin.ng.2009",  "amount": 12.0,  "balance": 188.0,  "status": "pending"  },  {  "userid": "ben.ng.2009",  "amount": 11.0,  "balance": 189.0,  "status": "pending"  }  ]  } | As seen in expected results | Pass |
| 2 | **Round 1: Active**  Validate that when bid more than vacancy, minimum price set as clearing price  When bid amounts are the same, sort by userid in an ascending order | Update bid amount | User: dawn.ng.2009  Pwd: qwe  Bid: IS100, S1  Update amount: $12  \*\* note that order displayed is different calvin before dawn  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 5,  "min-bid-amount": 12.0,  "students": [  {  "userid": "gary.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "pending"  },  {  "userid": "fred.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "pending"  },  {  "userid": "eddy.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "pending"  },  {  "userid": "calvin.ng.2009",  "amount": 12.0,  "balance": 188.0,  "status": "pending"  },  {  "userid": "dawn.ng.2009",  "amount": 12.0,  "balance": 188.0,  "status": "pending"  },  {  "userid": "ben.ng.2009",  "amount": 11.0,  "balance": 189.0,  "status": "pending"  }  ]  } | As seen in expected results | Pass |
| 3 | **Round 1: Active**  Validate that when bid less than vacancy, minimum price set as lowest | Users drop their bids | User id: ben.ng.2009  User id: calvin.ng.2009  User id: eddy.ng.2009  Bid: IS100, S1  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 5,  "min-bid-amount": 12.0,  "students": [  {  "userid": "gary.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "pending"  },  {  "userid": "fred.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "pending"  },  {  "userid": "dawn.ng.2009",  "amount": 12.0,  "balance": 188.0,  "status": "pending"  }  ]  } | As seen in expected results | Pass |
| 4 | **Round 1: Active**  Validate that when bid less than vacancy, minimum price set as lowest | Users drop their bids | User id: dawn.ng.2009  Bid: IS100, S1  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] |  | {  "status": "success",  "vacancy": 5,  "min-bid-amount": 15.0,  "students": [  {  "userid": "gary.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "pending"  },  {  "userid": "fred.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "pending"  }  ]  } | As seen in expected results | Pass |
| 5 | **Round 1: Active**  Validate that when there are no bids made, min bid will be $10 | Users drop their bids | User id: gary.ng.2009  User id: fred.ng.2009  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 5,  "min-bid-amount": 10.0,  "students": [ ]  } | As seen in expected results | Pass |
| 6 | **Round 1: Inactive**  Validate that  Vacancy**:** (the total available seats) - (number of successful bid during round 1)  Minimum bid price: report the lowest successful bid. | Bootstrap data file.  Update Bid  Stop Round 1  Run BidStatusJSON | User id: ben.ng.2009  Amount: 17  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 0,  "min-bid-amount": 13.0,  "students": [  {  "userid": "ben.ng.2009",  "amount": 17.0,  "balance": 183.0,  "status": "success"  },  {  "userid": "gary.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "success"  },  {  "userid": "fred.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "success"  },  {  "userid": "eddy.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "dawn.ng.2009",  "amount": 13.0,  "balance": 187.0,  "status": "success"  },  {  "userid": "calvin.ng.2009",  "amount": 12.0,  "balance": 200.0,  "status": "fail"  },  ]  } | As seen in expected results | Pass |
| 7 | **Round 1: Inactive**  Validate that  Vacancy**:** (the total available seats) - (number of successful bid during round 1)  Minimum bid price: report the lowest successful bid. | Bootstrap data file.  Go to database  Update bid  delete bid record.  Stop Round 1  Run BidStatusJSON | Bid record to update:  User id: ben.ng.2009  Amount: 17  Bid record to delete:  User id: gary.ng.2009  User id: fred.ng.2009  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 1,  "min-bid-amount": 12.0,  "students": [  {  "userid": "ben.ng.2009",  "amount": 17.0,  "balance": 183.0,  "status": "success"  },  {  "userid": "eddy.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "dawn.ng.2009",  "amount": 13.0,  "balance": 187.0,  "status": "success"  },  {  "userid": "calvin.ng.2009",  "amount": 12.0,  "balance": 188.0,  "status": " success "  }  ]  } | As seen in expected results | Pass |
| 8 | **Round 1: Inactive**  Validate that  Vacancy**:** (the total available seats) - (number of successful bid during round 1)  Minimum bid price: report the lowest successful bid. | Bootstrap data file.  Go to database update bid record.  Stop Round 1  Run BidStatusJSON | Bid record to update:  User id: ben.ng.2009  Amount: 17  User id: gary.ng.2009  Bid Amount: $13  \*\* note order different dawn before gary  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] |  | {  "status": "success",  "vacancy": 3,  "min-bid-amount": 14.0,  "students": [  {  "userid": "ben.ng.2009",  "amount": 17.0,  "balance": 183.0,  "status": "success"  },  {  "userid": "fred.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "success"  },  {  "userid": "eddy.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "dawn.ng.2009",  "amount": 13.0,  "balance": 200.0,  "status": " fail"  },  {  "userid": "gary.ng.2009",  "amount": 13.0,  "balance": 200.0,  "status": "fail"  },  {  "userid": "calvin.ng.2009",  "amount": 12.0,  "balance": 200.0,  "status": "fail"  }  ]  } | As seen in actual results | Pass |
| 9 | **Round 1: Inactive**  Validate that  Vacancy**:** (the total available seats) - (number of successful bid during round 1)  Minimum bid price: report the lowest successful bid. | Bootstrap data file.  Update bid  Stop Round 1  Run BidStatusJSON | Bid record to update:  User id: ben.ng.2009  Amount: 17  User id: calvin.ng.2009  Bid Amount: $13  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 4,  "min-bid-amount": 14.0,  "students": [  {  "userid": "ben.ng.2009",  "amount": 17.0,  "balance": 183.0,  "status": "success"  },  {  "userid": "gary.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "success"  },  {  "userid": "fred.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "success"  },  {  "userid": "eddy.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "dawn.ng.2009",  "amount": 13.0,  "balance": 200.0,  "status": " fail"  },  {  "userid": "calvin.ng.2009",  "amount": 13.0,  "balance": 200.0,  "status": "fail"  }  ]  } | As seen in actual results | Pass |
| 10 | **Round 1: Inactive**  Validate that  Vacancy**:** (the total available seats) - (number of successful bid during round 1)  Minimum bid price: report the lowest successful bid. | Bootstrap data file.  Update bid record.  Stop Round 1  Run BidStatusJSON | Bid record to update:  User id: fred.ng.2009  User id: eddy.ng.2009  User id: calvin.ng.2009  User id: ben.ng.2009  Bid Amount: $14  (update in the zip file before uploading())  Record to delete:  User id: dawn.ng.2009  User id: gary.ng.2009  \*\* note order different dawn before gary  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] |  | {  "status": "success",  "vacancy": 1,  "min-bid-amount": 14.0,  "students": [  {  "userid": "ben.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "calvin.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "eddy.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "fred.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  }  ]  } | As seen in expected results | Pass |
| 11 | **Round 2: Active**  Check Vacancy  Check Min Bid  Check Bid Status | Login Admin  Start Round 2 | Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 1,  "min-bid-amount": 10.0,  "students": []  } | As seen in expected results | Pass |
| 12 | **Round 2: Active**  Check Vacancy  Check Min Bid  Check Bid Status | Add bid | User id: dawn.ng.2009  Bid amount: $10  \*\* min bid amount follows round 2 logic, should be: $11  If there are N or more bids for the section, the minimum bid value is 1 dollar more than the Nth bid.  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 1,  "min-bid-amount": 11.0,  "students": [  {  "userid": "dawn.ng.2009",  "amount": 10.0,  "balance": 190.0,  "status": "success"  }  ]  } | As seen in expected results | Pass |
| 13 | **Round 2: Active**  Check Vacancy  Check Min Bid  Check Bid Status | Add bid | User id: gary.ng.2009  Bid amount: $15  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 1,  "min-bid-amount": 16.0,  "students": [  {  "userid": "gary.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "success"  },  {  "userid": "dawn.ng.2009",  "amount": 10.0,  "balance": 190.0,  "status": "fail"  }  ]  } | As seen in expected results | Pass |
| 14 | **Round 2: Active**  Check Vacancy  Check Min Bid  Check Bid Status | Drop Section | Drop Section:  User id: calvin.ng.2009  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | nil | {  "status": "success",  "vacancy": 2,  "min-bid-amount": 16.0,  "students": [  {  "userid": "gary.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": " success "  },  {  "userid": "dawn.ng.2009",  "amount": 10.0,  "balance": 190.0,  "status": "success"  }  ]  } | As seen in expected results | pass |
| 15 | **Round 2: Active**  Check Vacancy  Check Min Bid  Check Bid Status | Add bid | Add Bid:  User id:Xavier.ng.2009  Amount: $16  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 2,  "min-bid-amount": 16.0,  "students": [  {  "userid": "xavier.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "success"  },  {  "userid": "gary.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "success"  },  {  "userid": "dawn.ng.2009",  "amount": 10.0,  "balance": 190.0,  "status": "fail"  }  ]  } | As seen in expected results | Pass |
| 16 | **Round 2: Active**  Check Vacancy  Check Min Bid  Check Bid Status | Add bid | Add Bid:  User id: zac.ng.2009  Amount: $16  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 2,  "min-bid-amount": 17.0,  "students": [  {  "userid": "xavier.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "success"  },  {  "userid": "zac.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "success"  },  {  "userid": "gary.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "fail"  },  {  "userid": "dawn.ng.2009",  "amount": 10.0,  "balance": 190.0,  "status": "fail"  }  ]  } | As seen in expected results | Pass |
| 17 | **Round 2: Active**  Check Vacancy  Check Min Bid  Check Bid Status | Add bid | Add Bid:  User id: winston.ng.2009  Amount: $91  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 2,  "min-bid-amount": 17.0,  "students": [  {  "userid": "winston.ng.2009",  "amount": 91.0,  "balance": 109.0,  "status": "success"  },  {  "userid": "xavier.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "fail"  },  {  "userid": "zac.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "fail"  },  {  "userid": "gary.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "fail"  },  {  "userid": "dawn.ng.2009",  "amount": 10.0,  "balance": 190.0,  "status": "fail"  }  ]  } |  |  |
| 18 | **Round 2: Inactive**  Check Vacancy  Check Min Bid  Check Bid Status  Minimum bid price: the minimum successful bid amount during round 2. If there was no bid made (or no successful bid) during round 2, the value will be 10.0 dollars. | Admin stop round 2 | Stop round 2  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | Nil | {  "status": "success",  "vacancy": 1,  "min-bid-amount": 14.0,  "students": [  {  "userid": "ben.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "eddy.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "fred.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "winston.ng.2009",  "amount": 91.0,  "balance": 109.0,  "status": "success"  }  ]  } | As seen in expected results | Pass |
| 19 | **Round 2: Inactive**  Check Vacancy  Check Min Bid  Check Bid Status  Minimum bid price: the minimum successful bid amount during round 2. If there was no bid made (or no successful bid) during round 2, the value will be 10.0 dollars. | Admin stop round 2 | Bootstrap file: SampleDataJSONTest.zip  Stop round 1  Start round 2  Stop round 2  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | nil | {  "status": "success",  "vacancy": 0,  "min-bid-amount": 12.0,  "students": [  {  "userid": "calvin.ng.2009",  "amount": 12.0,  "balance": 188.0,  "status": "success"  },  {  "userid": "dawn.ng.2009",  "amount": 13.0,  "balance": 187.0,  "status": "success"  },  {  "userid": "eddy.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "fred.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "success"  },  {  "userid": "gary.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "success"  }  ]  } | As seen in expected results | Pass |
| 20 | **Round 2: Inactive**  Check Vacancy  Check Min Bid  Check Bid Status  Minimum bid price: the minimum successful bid amount during round 2. If there was no bid made (or no successful bid) during round 2, the value will be 10.0 dollars. | Admin stop round 2 | Bootstrap file: SampleDataJSONTest.zip  Stop round 1  Start round 2  Add bid:  User id: Winston.ng.2009  User id: Zac.ng.2009  Bid amount $13 each  Drop bid:  User id: Calvin.ng.2009  Stop round 2  Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S1"  }&token=[tokenValue] | nil | {  "status": "success",  "vacancy": 1,  "min-bid-amount": 13.0,  "students": [  {  "userid": "dawn.ng.2009",  "amount": 13.0,  "balance": 187.0,  "status": "success"  },  {  "userid": "eddy.ng.2009",  "amount": 14.0,  "balance": 186.0,  "status": "success"  },  {  "userid": "fred.ng.2009",  "amount": 15.0,  "balance": 185.0,  "status": "success"  },  {  "userid": "gary.ng.2009",  "amount": 16.0,  "balance": 184.0,  "status": "success"  }  ]  } | As seen in expected results | Pass |
| 21 | **Input Validation:** | Admin bootstrap | Run:  http://localhost:8084/app/json/bid-status?r={  "course": "",  "section": "S1"  }&token=[tokenValue] | {  "status": "error",  "message": [  "blank course"  ]  } | {  "status": "error",  "message": [  "blank course"  ]  } | As seen in expected results | pass |
| 23 | **Input Validation:** | Admin bootstrap | Run:  http://localhost:8084/app/json/bid-status?r={  "course": "",  "section": ""  }&token=[tokenValue] | {  "status": "error",  "message": [  "blank course",  "blank section"  ]  } | {  "status": "error",  "message": [  "blank course",  "blank section"  ]  } | As seen in expected results | Pass |
| 24 | **Input Validation:** | Admin bootstrap | Run:  http://localhost:8084/app/json/bid-status?r={  "course": "IS100",  "section": "S99"  }&token=[tokenValue] | {  "status": "error",  "message": [  "invalid section"  ]  } | {  "status": "error",  "message": [  "invalid section"  ]  } | As seen in expected results | Pass |
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