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| S/N | Description | Test Procedure | Input Test Data | Error Message | Expected Results | Actual Results | Pass/Fail |
| 1 | Users attempt to add a bid with invalid userId | Postman:  URL provides invalid userid and valid courseCode and sectionCode | URL: http://localhost:8084/app/json/delete-bid?r={ "userid": "amy.ng.2010", "course": "IS100", "section": "S1" }&token=eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJhZG1pbiIsImV4cCI6MTQ3Nzc0NDg0NiwiaWF0IjoxNDc3NzQxMjQ2fQ.f4hC8vyFqtcOe3YMydDAiqmFZPQ1WHx6bN\_8dPDfCYo  UserId: amy.ng.2010  Course: IS100  Section: S1  Token: valid token | {  "status": "error",  "message": [  "invalid userid"  ]  } | Show error message | {  "status": "error",  "message": [  "invalid userid"  ]  } | pass |
| 2 | Users attempt to update an existing bid with all correct inputs | Postman:  URL provides valid userId, amount, course, section and token | URL: http://localhost:8084/app/update-bid?r={ "userid": "ben.ng.2009", "amount": 20.0, "course": "IS100", "section": "S1" }&token=eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJhZG1pbiIsImV4cCI6MTQ3Nzc1MTIyMiwiaWF0IjoxNDc3NzQ3NjIyfQ.juXe65BeiZdb6arMEEoPIppX3\_lXIr\_Zs4qsFRFlg88 | Nil | {  "status": "success"  } | {  "status": "success"  } | pass |
| 3 | Users attempt to update a bid with invalid course | Postman:  URL provides valid userid but invalid coruseCode | http://localhost:8084/app/update-bid?r={ "userid": "ben.ng.2009", "amount": 20.0, "course": "IS800", "section": "S1" }&token=eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJhZG1pbiIsImV4cCI6MTQ3Nzc1MTIyMiwiaWF0IjoxNDc3NzQ3NjIyfQ.juXe65BeiZdb6arMEEoPIppX3\_lXIr\_Zs4qsFRFlg88  Userid:  ben.ng.2009  Course: IS800  Section: S1  Token: valid token | {  "status": "error",  "message": [  "invalid course"  ]  } | Show error message | {  "status": "error",  "message": [  "invalid course"  ]  } | pass |
| 4 | Users attempt to update bid with invalid section  (Only check if course is valid) | Postman:  URL provides valid userid valid courseCode but invalid sectionCode for that course | http://localhost:8084/app/update-bid?r={ "userid": "amy.ng.2009", "amount": 20.0, "course": "IS432", "section": "S2" }&token=eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJhZG1pbiIsImV4cCI6MTQ3Nzc1MTIyMiwiaWF0IjoxNDc3NzQ3NjIyfQ.juXe65BeiZdb6arMEEoPIppX3\_lXIr\_Zs4qsFRFlg88  Userid: amy.ng.2009  Course: IS432  Section: S2  Token: valid token | {  "status": "error",  "message": [  "invalid section"  ]  } | Show error message | {  "status": "error",  "message": [  "invalid section"  ]  } | pass |
| 5 | Users attempt to update bid with invalid amount | Postman:  URL provides valid userid,  amount, jcourseCode sectionCode for that course | URL: http://localhost:8084/app/update-bid?r={ "userid": "ben.ng.2009", "amount": 20.00001, "course": "IS100", "section": "S1" }&token=eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJhZG1pbiIsImV4cCI6MTQ3Nzc1MTIyMiwiaWF0IjoxNDc3NzQ3NjIyfQ.juXe65BeiZdb6arMEEoPIppX3\_lXIr\_Zs4qsFRFlg88 | {  "status": "error",  "message": [  "invalid amount"  ]  } | Show error message | {  "status": "error",  "message": [  "invalid amount"  ]  } | pass |
| 6 | User has existing bid for course.  Bid for different section without any class timetable clash | Postman:  URL provides valid userid,  amount, courseCode sectionCode for that course | URL: http://localhost:8084/app/update-bid?r={ "userid": "ben.ng.2009", "amount": 20, "course": "IS100", "section": "S1" }&token=  <existing bid in student section table>  "userid": "ben.ng.2009", "amount": 15, "course": "IS100", "section": "S2" | {  "status": "success"  } | Show success | {  "status": "success"  } | pass |
| 7 | User has existing bid for course.  Bid for invalid section. | Postman:  URL provides valid userid,  amount, courseCode  **but invalid sectionCode** for that course | URL: http://localhost:8084/app/update-bid?r={ "userid": "ben.ng.2009", "amount": 20, "course": "IS100", "section": "S99" }&token=  <existing bid in student section table>  "userid": "ben.ng.2009", "amount": 20, "course": "IS100", "section": "S2" | {  "status": "error",  "message": [  "invalid section"  ]  } | Shows error message | {  "status": "error",  "message": [  "invalid section"  ]  } | pass |
| 8 | User has existing bid for course.  Bid for amount that is edollar balance + existing bid amount | Postman:  URL provides valid userid,  amount, courseCode sectionCode for that course | URL: http://localhost:8084/app/update-bid?r={ "userid": "ben.ng.2009", "amount": 200, "course": "IS100", "section": "S1" }&token=  <existing bid in student section table>  "userid": "ben.ng.2009", "amount": 20, "course": "IS100", "section": "S2"  <student edollar balance>  Balance: 180 | N.A | {  "status": "success"  } | {  "status": "success"  } | pass |
| 9 | User has existing bid for course.  Bid for amount more than edollar balance + existing bid amount | Postman:  URL provides valid userid,  amount, courseCode sectionCode for that course | URL: http://localhost:8084/app/update-bid?r={ "userid": "ben.ng.2009", "amount": 202, "course": "IS100", "section": "S1" }&token=  <existing bid in student section table>  "userid": "ben.ng.2009", "amount": 20, "course": "IS100", "section": "S2"  <student edollar balance>  Balance: 180 | {  "status": "error",  "message": [  ""insufficient e$"  ]  } | Shows error message | {  "status": "error",  "message": [  "insufficient e$"  ]  } | pass |
| 10 | User has existing bid for course.  Bid for another section with class timetable clash | Postman:  URL provides valid userid,  amount, courseCode sectionCode for that course | http://localhost:8084/app/json/update-bid?r={ "userid": "ben.ng.2009", "amount": 23, "course": "IS106", "section": "S2" }&token=  Timetable for IS106 S2:  Day2: 12:00-15:15  <existing bid in student section table>  "userid": "ben.ng.2009",  "amount": 20, "course": "IS100", "section": "S2"  "amount": 20, "course": "IS106", "section": "S1"  Timetable for IS100 S2:  Day2 12:00-15:15 (Clash) | {  "status": "error",  "message": [  "class timetable clash"  ]  } | Shows error message | {  "status": "error",  "message": [  "class timetable clash"  ]  } | pass |
| 11 | New Bid  Bid too low,  All other inputs are valid  (only applies to round2) | Postman:  URL provides valid userid,  amount, courseCode sectionCode for that course | URL: http://localhost:8084/app/update-bid?r={ "userid": "ben.ng.2009", "amount": 14, "course": "IS100", "section": "S1" }&token=  Current min bid: 10 | {  "status": "error",  "message": [  ""bid too low"  ]  } | Shows error message | {  "status": "success"  } | FAIL  -Even though the bid amount 30 is being placed on section\_minimal\_price, when bid at $10, will still succeed |
| 12 | New Bid  All other inputs are valid but with insufficient e$ | Postman:  URL provides valid userid, amount, courseCode, sectionCode for that course | URL: http://localhost:8084/app/json/update-bid?r={ "userid": "ben.ng.2009", "amount": 200, "course": "IS100", "section": "S2" }&token=  e-dollar of ben: 169 | {  "status": "error",  "message": [  "insufficient e$"  ]  } | Show error message | {  "status": "error",  "message": [  "insufficient e$"  ]  } | pass |
| 13 | New bid  All other inputs are valid but class exam timetable clashes | Postman:  URL provides valid userid, amount, courseCode, sectionCode for that course but clash exam timetable | URL: http://localhost:8084/app/json/update-bid?r={ "userid": "ben.ng.2009", "amount": 20, "course": "IS207", "section": "S1" }&token=  <existing bid in student section table>  "userid": "ben.ng.2009", "amount": 20, "course": "IS208", "section": "S1"  Exam-date: 2013-11-03 15:30-18:45 | {  "status": "error",  "message": [  "exam timetable clash"  ]  } | Show Error Message | {  "status": "error",  "message": [  "exam timetable clash"  ]  } | pass |
| 14 | New bid with valid inputs but incomplete prerequisites | Postman:  URL provides valid userid, amount, courseCode, sectionCode for that course but the prerequisite for that course is not completed | http://localhost:8084/app/json/update-bid?r={ "userid": "amy.ng.2009", "amount": 20, "course": "IS103", "section": "S1" }&token=  Prerequisite for IS103: IS102 | {  "status": "error",  "message": [  "incomplete prerequisite"  ]  } | Show Error  Message | {  "status": "error",  "message": [  "incomplete prerequisite"  ]  } | pass |
| 15 | Users attempt to update a bid during inactive round | Postman:  URL provides valid userid courseCode and sectionCode for that course but the round is inactive | URL:  http://localhost:8084/app/json/update-bid?r={ "userid": "amy.ng.2009", "amount": 20, "course": "IS101", "section": "S1" }&token=  userid: amy.ng.2009  course: IS101  section: S1  token: valid token | {  "status": "error",  "message": [  "round ended"  ]  } | Show Error Message | {  "status": "error",  "message": [  "round ended"  ]  } | pass |
| 16 | Users attempt to update a bid which is already a completed course | Postman:  URL provides valid userid courseCode and sectionCode for that course which is already completed | URL:  http://localhost:8084/app/json/update-bid?r={ "userid": "ben.ng.2009", "amount": 20, "course": "IS102", "section": "S1" }&token= | {  "status": "error",  "message": [  "course completed"  ]  } | Show Error Message | {  "status": "error",  "message": [  "course completed"  ]  } | pass |
| 17 | Users attempt to update a bid which enrolled course | Postman:  URL provides valid userid courseCode and sectionCode for that course which is already enrolled | URL:  http://localhost:8084/app/json/update-bid?r={ "userid": "ben.ng.2009", "amount": 20, "course": "IS106", "section": "S1" }&token=  Existing enrolled courses:  Ben.ng.2009:  IS106 S1 | {  "status": "error",  "message": [  "course enrolled"  ]  } | Show Error Message | {  "status": "error",  "message": [  "course enrolled"  ]  } | pass |
| 18 | Users attempt to update a bid with valid inputs but the section limit is reached | Postman:  URL provides valid userid courseCode and sectionCode for that course but the person already has 5 current bids. | URL:  http://localhost:8084/app/json/update-bid?r={ "userid": "calvin.ng.2009", "amount": 20, "course": "IS205", "section": "S1" }&token=  Existing bids:  IS100  IS101  IS200  IS202  IS203 | {  "status": "error",  "message": [  "section limit reached"  ]  } | Show Error Message |  | FAIL  -shows success but cannot add the 5th bid and anything else from there. |
| 19 | Users attempt to update a bid with valid inputs in round 1 but the course doesn’t belong to the person’s own school | Postman:  URL provides valid userid courseCode and sectionCode for that course but the course doesn’t belong to the student’s own school in round1. | URL:  http://localhost:8084/app/json/update-bid?r={ "userid": "calvin.ng.2009", "amount": 20, "course": "ECON002", "section": "S1" }&token=  School: SIS | {  "status": "error",  "message": [  "not own school course"  ]  } | Show Error Message | {  "status": "error",  "message": [  "not own school course"  ]  } | pass |
| 20 | Users attempt to update a bid with valid inputs in round2 but there is no vacancy | Postman  Postman:  URL provides valid userid courseCode and sectionCode for that course but the vacancy for that section is 0 | URL:  http://localhost:8084/app/json/update-bid?r={ "userid": "ben.ng.2009", "amount": 20, "course": "IS100", "section": "S1" }&token=  Section\_student:  Vacancy for IS100 S1 : 0 | {  "status": "error",  "message": [  "no vacancy"  ]  } | Show Error Message |  | pass |
| 21 | User attempts to bid at $11 for a Round 1 | Postman  Valid Course & Section.  Amount $11 | Valid Course: amy.ng.2009  Valid Section: S1  Bid amount:$11 | {  "status": "success"  } | Show success | {  "status": "error",  "message": [  "bid too low"  ]  } | FAIL  -Round is 1, does not validate if bid is too low. |
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