|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| fafaS/N | Description | Test Inputs | Test procedure | Expected results | Actual results | PASS/Fail |
| 1\* | Test if bootstrap is successfully run. | file: data-valid.zip | Select the file from local computer and press upload | {  "status": "error",  "num-record-loaded": [  {  "bid.csv": 11  },  {  "course.csv": 24  },  {  "course\_completed.csv": 4  },  {  "prerequisite.csv": 8  },  {  "section.csv": 35  },  {  "student.csv": 26  }  ],  "error": [  {  "file": "bid.csv",  "line": 7,  "message": [  "already completed"  ]  },  {  "file": "bid.csv",  "line": 14,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 15,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 16,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 17,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 18,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 19,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 20,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 21,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 22,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 23,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 24,  "message": [  "not own school course"  ]  }  ]  } | {  "status": "error",  "num-record-loaded": [  {  "bid.csv": 11  },  {  "course.csv": 24  },  {  "course\_completed.csv": 4  },  {  "prerequisite.csv": 8  },  {  "section.csv": 35  },  {  "student.csv": 26  }  ],  "error": [  {  "file": "bid.csv",  "line": 7,  "message": [  "already completed"  ]  },  {  "file": "bid.csv",  "line": 14,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 15,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 16,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 17,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 18,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 19,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 20,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 21,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 22,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 23,  "message": [  "not own school course"  ]  },  {  "file": "bid.csv",  "line": 24,  "message": [  "not own school course"  ]  }  ]  } | PASS |
| 2\* | Test JSON response when parsing bid.csv with errors:   * blank userid * blank amount * blank code * blank section | File: data\_bidmodified.zip | Upload the zip file | {  "status": "error",    "error":  [  {  "file": "bid.csv",  "line": "6",  "message": [ "userid field is blank" ]  },  {  "file": "bid.csv",  "line": "8",  "message": [ "amount field is blank" ] },  {  "file": "bid.csv",  "line": "10",  "message": [ "code field is blank" ]  },  {  "file": "bid.csv",  "line": "13",  "message": [ "section field is blank" ]  }  ]  } | { "status": "error", "num-record-loaded": [ { "bid.csv": 19 }, { "course.csv": 24 }, { "course\_completed.csv": 3 }, { "prerequisite.csv": 8 }, { "section.csv": 35 }, { "student.csv": 26 } ], "error": [ { "file": "bid.csv", "line": "6", "message": [ "userid field is blank" ] }, { "file": "bid.csv", "line": "8", "message": [ "amount field is blank" ] }, { "file": "bid.csv", "line": "10", "message": [ "code field is blank" ] }, { "file": "bid.csv", "line": "13", "message": [ "section field is blank" ] } ] } | PASS |
| 3\* | Test JSON response when parsing course.csv with errors:   * blank course * blank school * blank title * blank description * blank exam date * blank exam start * blank end. | File:  data\_coursemodified.zip | Upload zip file | {  "status": "error",    "error": [  {  "file": "course.csv",  "line": "2",  "message": ["course field is blank"]  },  {  "file": "course.csv",  "line": "3",  "message": ["school field is blank"]  },  {  "file": "course.csv",  "line": "4",  "message": ["title field is blank"]  },  {  "file": "course.csv",  "line": "5",  "message": ["description field is blank"]  },  {  "file": "course.csv",  "line": "7",  "message": ["exam date field is blank"]  },  {  "file": "course.csv",  "line": "8",  "message": ["exam start field is blank"]  },  {  "file": "course.csv",  "line": "10",  "message": ["exam end field is blank"]  }, | {  “status”:”error”,  "error": [ { "file": "course.csv", "line": "2", "message": [ "course field is blank" ] }, { "file": "course.csv", "line": "3", "message": [ "school field is blank" ] }, { "file": "course.csv", "line": "4", "message": [ "title field is blank" ] }, { "file": "course.csv", "line": "5", "message": [ "description field is blank" ] }, { "file": "course.csv", "line": "7", "message": [ "exam date field is blank" ] }, { "file": "course.csv", "line": "8", "message": [ "exam start field is blank" ] }, { "file": "course.csv", "line": "10", "message": [ "exam end field is blank" ] } | PPASSASS |
| 4\* | Test JSON response when parsing course.csv with errors:   * invalid start date * invalid end date | File:  data\_coursemodified2.zip | Upload zip file | |  | | --- | | { | |  | "status": "error", | |  | "num-record-loaded": [ | |  | { | |  | "bid.csv": 23 | |  | }, | |  | { | |  | "course.csv": 22 | |  | }, | |  | { | |  | "course\_completed.csv": 3 | |  | }, | |  | { | |  | "prerequisite.csv": 5 | |  | }, | |  | { | |  | "section.csv": 32 | |  | }, | |  | { | |  | "student.csv": 26 | |  | } | |  | ], | |  | "error": [ | |  | { | |  | "file": "course.csv", | |  | "line": "8", | |  | "message": [ | |  | "invalid exam end" | |  | ] | |  | }, | |  | { | |  | "file": "course.csv", | |  | "line": "10", | |  | "message": [ | |  | "invalid exam end" | |  | ] | |  | }, | | { "status": "error", "num-record-loaded": [ { "bid.csv": 23 }, { "course.csv": 22 }, { "course\_completed.csv": 3 }, { "prerequisite.csv": 5 }, { "section.csv": 32 }, { "student.csv": 26 } ], "error": [ { "file": "course.csv", "line": "8", "message": [ "invalid exam end" ] }, { "file": "course.csv", "line": "10", "message": [ "invalid exam end" ] }, { "file": "section.csv", "line": "17", "message": [ "invalid course" ] }, { "file": "section.csv", "line": "18", "message": [ "invalid course" ] }, { "file": "section.csv", "line": "21", "message": [ "invalid course" ] }, { "file": "prerequisite.csv", "line": "7", "message": [ "invalid prerequisite" ] }, { "file": "prerequisite.csv", "line": "8", "message": [ "invalid prerequisite" ] }, { "file": "prerequisite.csv", "line": "9", "message": [ "invalid prerequisite" ] } ] } | PASS |
| 5\* | Test JSON response when parsing section.csv with errors:   * blank section * blank day * blank start * blank end * blank size | File:  data\_ sectionModified.zip | Upload zip file | "status": "error",  "error": [ {  "file": "section.csv",  "line": "2",  "message": [ "course field is blank" ] },  {  "file": "section.csv",  "line": "3",  "message": [ "section field is blank" ] },  {  "file": "section.csv",  "line": "4",  "message": [ "day field is blank" ] },  {  "file": "section.csv",  "line": "5",  "message": [ "start field is blank" ] },  {  "file": "section.csv",  "line": "6",  "message": [ "end field is blank" ] },  {  "file": "section.csv",  "line": "7",  "message": [ "instructor field is blank" ] },  {  "file": "section.csv",  "line": "8",  "message": [ "venue field is blank" ] },  {  "file": "section.csv",  "line": "9",  "message": [ "size field is blank" ] } | “status” : “error”,  "error": [ { "file": "section.csv", "line": "2", "message": [ "course field is blank" ] }, { "file": "section.csv", "line": "3", "message": [ "section field is blank" ] }, { "file": "section.csv", "line": "4", "message": [ "day field is blank" ] }, { "file": "section.csv", "line": "5", "message": [ "start field is blank" ] }, { "file": "section.csv", "line": "6", "message": [ "end field is blank" ] }, { "file": "section.csv", "line": "7", "message": [ "instructor field is blank" ] }, { "file": "section.csv", "line": "8", "message": [ "venue field is blank" ] }, { "file": "section.csv", "line": "9", "message": [ "size field is blank" ] } | PASS |
|  | Test JSON response when parsing section.csv with errors:   * invalid section * invalid day * invalid start * invalid end * invalid size | File:  data\_ sectionModified2.zip | Upload zip file | {  "status": "error",  "error": [ {  "file": "section.csv",  "line": "2",  "message": [ "invalid section", "invalid start", "invalid end" ] },  {  "file": "section.csv",  "line": "3",  "message": [ "invalid day", "invalid size" ] } | {  “status”:”error”,  "error": [ { "file": "section.csv", "line": "2", "message": [ "invalid section", "invalid start", "invalid end" ] }, { "file": "section.csv", "line": "3", "message": [ "invalid day", "invalid size" ] }]  } | PASS |
| 6\* | Test JSON response when parsing student.csv with errors:   * duplicated userid * invalid e-dollar | File:  data\_ studentModified.zip | Upload zip file | {  "status": "error",   "error": [ {  "file": "student.csv",  "line": "2",  "message": [ "duplicate userid" ] },  {  "file": "student.csv",  "line": "3",  "message": [ "duplicate userid", "invalid e-dollar" ] } | {  “status”:”error”,  "error": [ { "file": "student.csv", "line": "2", "message": [ "duplicate userid" ] }, { "file": "student.csv", "line": "3", "message": [ "duplicate userid", "invalid e-dollar" ] } | PASS |
|  | Test JSON response when parsing student.csv with errors:   * blank userid * blank name * blank school * blank e-dollar | File:  data\_ studentModified2.zip | Upload zip file | {  "status": "error",  "error": [ {  "file": "student.csv",  "line": "2",  "message": [ "userid field is blank", "edollar field is blank" ] },  {  "file": "student.csv",  "line": "3",  "message": [ "school field is blank" ] } | {  “status”:”error”,  "error": [ { "file": "student.csv", "line": "2", "message": [ "userid field is blank", "edollar field is blank" ] }, { "file": "student.csv", "line": "3", "message": [ "school field is blank" ] }, { "file": "student.csv", "line": "4", "message": [ "name field is blank" ] } | PASS |
| 7\* | Test JSON response when parsing prerequisite with errors:   * blank course * blank prerequisite | File:  data\_prerequisitemodified.zip | Upload zip file | {  "status": "error",  "error": [ {  "file": "prerequisite.csv",  "line": "2",  "message": [ "course field is blank" ] },  {  "file": "prerequisite.csv",  "line": "3",  "message": [ "prerequisite field is blank" ] } | {  “status”:”error”,  "error": [ { "file": "prerequisite.csv", "line": "2", "message": [ "course field is blank" ] }, { "file": "prerequisite.csv", "line": "3", "message": [ "prerequisite field is blank" ] } ] } | PASS |
|  | Test JSON response when parsing prerequisite with errors:   * Invalid course * invalid prerequisite | File:  data\_prerequisitemodified2.zip | Upload zip file | {  "status": "error",  "error": [ {  "file": "prerequisite.csv",  "line": "2", "message": [ "invalid course" ] },  {  "file": "prerequisite.csv",  "line": "3",  "message": [ "invalid prerequisite" ] } |  |  |
| 8\* | Test JSON response when parsing course\_completed with errors:   * invalid code | File: data\_ competedmodified.zip | Upload zip file | "status": "error",  "error": [ {  "file":"course\_completed.csv",  "line": "5",  "message": [ "invalid code" ] } | “status”:”error”,  "error": [ { "file": "course\_completed.csv", "line": "5", "message": [ "invalid code" ] } ] | PASS |
| 9\* | Test JSON response when the 1st round is started | url :  [http://localhost:8084/blabblabblab/start](http://localhost:8084/app/json-service.compass/start) | Type json command in the url bar | {  "status":"success",  "round": 1  } | { "status": "success", "round": 1 } | PASS |
| 10\* | Test JSON response when the stop round command is initiated | url:  http://localhost:8084/app/ blabblabblab/stop | Type json command in the url bar | {  "status":"success"  } | { "status": "success" } |  |
| 11\* | Test JSON response when the stop round command is initiated after a round is stopped | url:  http://localhost:8084/app/ blabblabblab/stop | Type JSON command in the url bar after the stop round is innitiated | {  "status": "error",  "message": [ "Round already ended" ]  } | { "status": "error", "message": [ "round already ended" ] } |  |
| 12 \* | Test JSON response when the dump (table) command is inserted | url:  http://localhost:8084/blabblabblab/dump | Type JSON command in the url bar | |  |  | | --- | --- | |  | { | |  | "status": "success", | |  | "course": [ | |  | { | |  | "course": "ECON001", | |  | "school": "SOE", | |  | "title": "Microeconomics", | |  | "description": "Microeconomics is about economics in smaller scale (e.g. firm-scale)", | |  | "exam date": "Nov 1, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 3:30:00 PM", | |  | "exam end": "Jan 1, 1970 6:45:00 PM" | |  | }, | |  | { | |  | "course": "ECON002", | |  | "school": "SOE", | |  | "title": "Macroeconomics", | |  | "description": "You don\u0027t learn about excel macros here.", | |  | "exam date": "Nov 1, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS100", | |  | "school": "SIS", | |  | "title": "Calculus ", | |  | "description": "The basic objective of Calculus is to relate small-scale (differential) quantities to large-scale (integrated) quantities. This is accomplished by means of the Fundamental Theorem of Calculus. Students should demonstrate an understanding of the integral as a cumulative sum, of the derivative as a rate of change, and of the inverse relationship between integration and differentiation.", | |  | "exam date": "Nov 19, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS101", | |  | "school": "SIS", | |  | "title": "Advanced Calculus", | |  | "description": "This is a second course on calculus. It is more advanced definitely.", | |  | "exam date": "Nov 18, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | }, | |  | { | |  | "course": "IS102", | |  | "school": "SIS", | |  | "title": "Java programming", | |  | "description": "This course teaches you on Java programming. I love Java definitely.", | |  | "exam date": "Nov 17, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 3:30:00 PM", | |  | "exam end": "Jan 1, 1970 6:45:00 PM" | |  | }, | |  | { | |  | "course": "IS103", | |  | "school": "SIS", | |  | "title": "Web Programming", | |  | "description": "JSP, Servlets using Tomcat", | |  | "exam date": "Nov 16, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS104", | |  | "school": "SIS", | |  | "title": "Advanced Programming", | |  | "description": "How to write code that nobody can understand", | |  | "exam date": "Nov 15, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | }, | |  | { | |  | "course": "IS105", | |  | "school": "SIS", | |  | "title": "Data Structures", | |  | "description": "Data structure is a particular way of storing and organizing data in a computer so that it can be used efficiently. Arrays, Lists, Stacks and Trees will be covered.", | |  | "exam date": "Nov 14, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 3:30:00 PM", | |  | "exam end": "Jan 1, 1970 6:45:00 PM" | |  | }, | |  | { | |  | "course": "IS106", | |  | "school": "SIS", | |  | "title": "Database Modeling \u0026 Design", | |  | "description": "Data modeling in software engineering is the process of creating a data model by applying formal data model descriptions using data modeling techniques. ", | |  | "exam date": "Nov 13, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS107", | |  | "school": "SIS", | |  | "title": "IT Outsourcing", | |  | "description": "This course teaches you on how to outsource your programming projects to others.", | |  | "exam date": "Nov 12, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | }, | |  | { | |  | "course": "IS108", | |  | "school": "SIS", | |  | "title": "Organization Behaviour", | |  | "description": "Organizational Behavior (OB) is the study and application of knowledge about how people, individuals, and groups act in organizations. ", | |  | "exam date": "Nov 11, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 3:30:00 PM", | |  | "exam end": "Jan 1, 1970 6:45:00 PM" | |  | }, | |  | { | |  | "course": "IS109", | |  | "school": "SIS", | |  | "title": "Cloud Computing", | |  | "description": "Cloud computing is Internet-based computing, whereby shared resources, software and information are provided to computers and other devices on-demand, like the electricity grid.", | |  | "exam date": "Nov 10, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS200", | |  | "school": "SIS", | |  | "title": "Final Touch", | |  | "description": "Learn how eat, dress and talk.", | |  | "exam date": "Nov 9, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | }, | |  | { | |  | "course": "IS201", | |  | "school": "SIS", | |  | "title": "Fun with Shell Programming", | |  | "description": "Shell scripts are a fundamental part of the UNIX and Linux programming environment.", | |  | "exam date": "Nov 8, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 3:30:00 PM", | |  | "exam end": "Jan 1, 1970 6:45:00 PM" | |  | }, | |  | { | |  | "course": "IS202", | |  | "school": "SIS", | |  | "title": "Enterprise integration", | |  | "description": "Enterprise integration is a technical field of Enterprise Architecture, which focused on the study of things like system interconnection, electronic data interchange, product data exchange and distributed computing environments, and it\u0027s possible other solutions.[1", | |  | "exam date": "Nov 7, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS203", | |  | "school": "SIS", | |  | "title": "Software Engineering", | |  | "description": "The Sleepless Era.", | |  | "exam date": "Nov 6, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | }, | |  | { | |  | "course": "IS204", | |  | "school": "SIS", | |  | "title": "Database System Administration", | |  | "description": "Database administration is a complex, often thankless chore.", | |  | "exam date": "Nov 5, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 3:30:00 PM", | |  | "exam end": "Jan 1, 1970 6:45:00 PM" | |  | }, | |  | { | |  | "course": "IS205", | |  | "school": "SIS", | |  | "title": "All Talk, No Action", | |  | "description": "The easiest course of all. We will sit around and talk.", | |  | "exam date": "Nov 4, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS206", | |  | "school": "SIS", | |  | "title": "Operation Research", | |  | "description": "Operations research, also known as operational research, is an interdisciplinary branch of applied mathematics and formal science that uses advanced analytical methods such as mathematical modeling, statistical analysis, and mathematical optimization to arrive at optimal or near-optimal solutions to complex decision-making problems.", | |  | "exam date": "Nov 3, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | }, | |  | { | |  | "course": "IS207", | |  | "school": "SIS", | |  | "title": "GUI Bloopers", | |  | "description": "Common User Interface Design Don\u0027ts and Dos", | |  | "exam date": "Nov 3, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 3:30:00 PM", | |  | "exam end": "Jan 1, 1970 6:45:00 PM" | |  | }, | |  | { | |  | "course": "IS208", | |  | "school": "SIS", | |  | "title": "Artifical Intelligence", | |  | "description": "The science and engineering of making intelligent machine", | |  | "exam date": "Nov 3, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS209", | |  | "school": "SIS", | |  | "title": "Information Storage and Management", | |  | "description": "Information storage and management (ISM) - once a relatively straightforward operation -has developed into a highly sophisticated pillar of information technology, requiring proven technical expertise.", | |  | "exam date": "Nov 2, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | }, | |  | { | |  | "course": "MGMT001", | |  | "school": "SOB", | |  | "title": "Business,Government, and Society", | |  | "description": "learn the interrelation amongst the three", | |  | "exam date": "Nov 2, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "MGMT002", | |  | "school": "SOB", | |  | "title": "Technology and World Change", | |  | "description": "As technology changes, so does the world", | |  | "exam date": "Nov 1, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | } | |  | ], | |  | "section": [ | |  | { | |  | "course": "ECON001", | |  | "section": "S1", | |  | "day": "Thursday", | |  | "start": "Jan 1, 1970 8:30:00 AM", | |  | "end": "Jan 1, 1970 11:45:00 AM", | |  | "instructor": "John KHOO", | |  | "venue": "Seminar Rm 2-34", | |  | "size": 10 | |  | }, | |  | { | |  | "course": "ECON002", | |  | "section": "S1", | |  | "day": "Friday", | |  | "start": "Jan 1, 1970 3:30:00 PM", | 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This is accomplished by means of the Fundamental Theorem of Calculus. Students should demonstrate an understanding of the integral as a cumulative sum, of the derivative as a rate of change, and of the inverse relationship between integration and differentiation.", | |  | "exam date": "Nov 19, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS101", | |  | "school": "SIS", | |  | "title": "Advanced Calculus", | |  | "description": "This is a second course on calculus. It is more advanced definitely.", | |  | "exam date": "Nov 18, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | }, | |  | { | |  | "course": "IS102", | |  | "school": "SIS", | |  | "title": "Java programming", | |  | "description": "This course teaches you on Java programming. I love Java definitely.", | |  | "exam date": "Nov 17, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 3:30:00 PM", | |  | "exam end": "Jan 1, 1970 6:45:00 PM" | |  | }, | |  | { | |  | "course": "IS103", | |  | "school": "SIS", | |  | "title": "Web Programming", | |  | "description": "JSP, Servlets using Tomcat", | |  | "exam date": "Nov 16, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS104", | |  | "school": "SIS", | |  | "title": "Advanced Programming", | |  | "description": "How to write code that nobody can understand", | |  | "exam date": "Nov 15, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | }, | |  | { | |  | "course": "IS105", | |  | "school": "SIS", | |  | "title": "Data Structures", | |  | "description": "Data structure is a particular way of storing and organizing data in a computer so that it can be used efficiently. Arrays, Lists, Stacks and Trees will be covered.", | |  | "exam date": "Nov 14, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 3:30:00 PM", | |  | "exam end": "Jan 1, 1970 6:45:00 PM" | |  | }, | |  | { | |  | "course": "IS106", | |  | "school": "SIS", | |  | "title": "Database Modeling \u0026 Design", | |  | "description": "Data modeling in software engineering is the process of creating a data model by applying formal data model descriptions using data modeling techniques. 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We will sit around and talk.", | |  | "exam date": "Nov 4, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 8:30:00 AM", | |  | "exam end": "Jan 1, 1970 11:45:00 AM" | |  | }, | |  | { | |  | "course": "IS206", | |  | "school": "SIS", | |  | "title": "Operation Research", | |  | "description": "Operations research, also known as operational research, is an interdisciplinary branch of applied mathematics and formal science that uses advanced analytical methods such as mathematical modeling, statistical analysis, and mathematical optimization to arrive at optimal or near-optimal solutions to complex decision-making problems.", | |  | "exam date": "Nov 3, 2013 12:00:00 AM", | |  | "exam start": "Jan 1, 1970 12:00:00 PM", | |  | "exam end": "Jan 1, 1970 3:15:00 PM" | |  | }, | |  | { | |  | "course": "IS207", | |  | "school": "SIS", | |  | "title": "GUI Bloopers", | |  | "description": "Common User Interface Design Don\u0027ts and Dos", | |  | "exam date": "Nov 3, 2013 12:00:00 AM", | 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2-27", | |  | "size": 10 | |  | }, | |  | { | |  | "course": "IS204", | |  | "section": "S1", | |  | "day": "Wednesday", | |  | "start": "Jan 1, 1970 8:30:00 AM", | |  | "end": "Jan 1, 1970 11:45:00 AM", | |  | "instructor": "Bing KHOO", | |  | "venue": "Seminar Rm 2-28", | |  | "size": 10 | |  | }, | |  | { | |  | "course": "IS205", | |  | "section": "S1", | |  | "day": "Thursday", | |  | "start": "Jan 1, 1970 12:00:00 PM", | |  | "end": "Jan 1, 1970 3:15:00 PM", | |  | "instructor": "Carlo KHOO", | |  | "venue": "Seminar Rm 2-29", | |  | "size": 10 | |  | }, | |  | { | |  | "course": "IS206", | |  | "section": "S1", | |  | "day": "Friday", | |  | "start": "Jan 1, 1970 3:30:00 PM", | |  | "end": "Jan 1, 1970 6:45:00 PM", | |  | "instructor": "Dickson KHOO", | |  | "venue": "Seminar Rm 2-30", | |  | "size": 10 | |  | }, | |  | { | |  | "course": "IS207", | |  | "section": "S1", | |  | "day": "Monday", | |  | "start": "Jan 1, 1970 8:30:00 AM", | |  | "end": "Jan 1, 1970 11:45:00 AM", | |  | "instructor": "Edmund KHOO", | |  | "venue": "Seminar Rm 2-31", | |  | "size": 10 | |  | }, | |  | { | |  | "course": "IS208", | |  | "section": "S1", | |  | "day": "Tuesday", | |  | "start": "Jan 1, 1970 12:00:00 PM", | |  | "end": "Jan 1, 1970 3:15:00 PM", | |  | "instructor": "Febrice KHOO", | |  | "venue": "Seminar Rm 2-32", | |  | "size": 10 | |  | }, | |  | { | |  | "course": "MGMT001", | |  | "section": "S1", | |  | "day": "Wednesday", | |  | "start": "Jan 1, 1970 8:30:00 AM", | |  | "end": "Jan 1, 1970 11:45:00 AM", | |  | "instructor": "Gavin KHOO", | |  | "venue": "Seminar Rm 2-33", | |  | "size": 10 | |  | }, | |  | { | |  | "course": "MGMT002", | |  | "section": "S1", | |  | "day": "Wednesday", | |  | "start": "Jan 1, 1970 3:30:00 PM", | |  | "end": "Jan 1, 1970 6:45:00 PM", | |  | "instructor": "Bob KHOO", | |  | "venue": "Seminar Rm 2-37", | |  | "size": 10 | |  | } | |  | ], | |  | "student": [ | |  | { | |  | "userid": "amy.ng.2009", | |  | "password": "qwerty128", | |  | "name": "Amy NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "ben.ng.2009", | |  | "password": "qwerty129", | |  | "name": "Ben NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "calvin.ng.2009", | |  | "password": "qwerty130", | |  | "name": "Calvin NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "dawn.ng.2009", | |  | "password": "qwerty131", | |  | "name": "Dawn NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "eddy.ng.2009", | |  | "password": "qwerty132", | |  | "name": "Eddy NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "fred.ng.2009", | |  | "password": "qwerty133", | |  | "name": "Fred NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "gary.ng.2009", | |  | "password": "qwerty134", | |  | "name": "Gary NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "harry.ng.2009", | |  | "password": "qwerty135", | |  | "name": "Harry NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "ian.ng.2009", | |  | "password": "qwerty136", | |  | "name": "Ian NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "jerry.ng.2009", | |  | "password": "qwerty137", | |  | "name": "Jerry NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "kelly.ng.2009", | |  | "password": "qwerty138", | |  | "name": "Kelly NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "larry.ng.2009", | |  | "password": "qwerty139", | |  | "name": "Larry NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "maggie.ng.2009", | |  | "password": "qwerty140", | |  | "name": "Maggie NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "neilson.ng.2009", | |  | "password": "qwerty141", | |  | "name": "Neilson NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "olivia.ng.2009", | |  | "password": "qwerty142", | |  | "name": "Olivia NG", | |  | "school": "SIS", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "parker.ng.2009", | |  | "password": "qwerty143", | |  | "name": "Parker NG", | |  | "school": "SOE", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "quiten.ng.2009", | |  | "password": "qwerty144", | |  | "name": "Quiten NG", | |  | "school": "SOE", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "ricky.ng.2009", | |  | "password": "qwerty145", | |  | "name": "Ricky NG", | |  | "school": "SOE", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "steven.ng.2009", | |  | "password": "qwerty146", | |  | "name": "Steven NG", | |  | "school": "SOE", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "timothy.ng.2009", | |  | "password": "qwerty147", | |  | "name": "Timothy NG", | |  | "school": "SOE", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "ursala.ng.2009", | |  | "password": "qwerty148", | |  | "name": "Ursala NG", | |  | "school": "SOE", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "valarie.ng.2009", | |  | "password": "qwerty149", | |  | "name": "Valarie NG", | |  | "school": "SOB", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "winston.ng.2009", | |  | "password": "qwerty150", | |  | "name": "Winston NG", | |  | "school": "SOB", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "xavier.ng.2009", | |  | "password": "qwerty151", | |  | "name": "Xavier NG", | |  | "school": "SOB", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "yasir.ng.2009", | |  | "password": "qwerty152", | |  | "name": "Yasir NG", | |  | "school": "SOB", | |  | "e dollars": 200.00 | |  | }, | |  | { | |  | "userid": "zac.ng.2009", | |  | "password": "qwerty153", | |  | "name": "Zac NG", | |  | "school": "SOB", | |  | "e dollars": 200.00 | |  | } | |  | ], | |  | "prerequisite": [ | |  | { | |  | "course": "IS101", | |  | "prerequisite": "IS100" | |  | }, | |  | { | |  | "course": "IS103", | |  | "prerequisite": "IS102" | |  | }, | |  | { | |  | "course": "IS109", | |  | "prerequisite": "IS102" | |  | }, | |  | { | |  | "course": "IS104", | |  | "prerequisite": "IS103" | |  | }, | |  | { | |  | "course": "IS203", | |  | "prerequisite": "IS103" | |  | }, | |  | { | |  | "course": "IS203", | |  | "prerequisite": "IS106" | |  | }, | |  | { | |  | "course": "IS204", | |  | "prerequisite": "IS106" | |  | }, | |  | { | |  | "course": "IS209", | |  | "prerequisite": "IS106" | |  | } | |  | ], | |  | "bid": [ | |  | { | |  | "userid": "ben.ng.2009", | |  | "amount": 11.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "calvin.ng.2009", | |  | "amount": 12.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "dawn.ng.2009", | |  | "amount": 13.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "eddy.ng.2009", | |  | "amount": 14.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "fred.ng.2009", | |  | "amount": 15.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "harry.ng.2009", | |  | "amount": 17.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "ian.ng.2009", | |  | "amount": 18.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "larry.ng.2009", | |  | "amount": 19.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "maggie.ng.2009", | |  | "amount": 20.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "neilson.ng.2009", | |  | "amount": 21.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "olivia.ng.2009", | |  | "amount": 22.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "parker.ng.2009", | |  | "amount": 24.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "quiten.ng.2009", | |  | "amount": 24.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "ricky.ng.2009", | |  | "amount": 24.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "steven.ng.2009", | |  | "amount": 26.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "timothy.ng.2009", | |  | "amount": 27.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "ursala.ng.2009", | |  | "amount": 28.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "valarie.ng.2009", | |  | "amount": 29.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "winston.ng.2009", | |  | "amount": 30.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "xavier.ng.2009", | |  | "amount": 31.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "yasir.ng.2009", | |  | "amount": 32.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | }, | |  | { | |  | "userid": "zac.ng.2009", | |  | "amount": 33.00, | |  | "code": "IS100", | |  | "section": "S1" | |  | } | |  | ], | |  | "completed-course": [ | |  | { | |  | "userid": "amy.ng.2009", | |  | "code": "IS100" | |  | }, | |  | { | |  | "userid": "gary.ng.2009", | |  | "code": "IS100" | |  | }, | |  | { | |  | "userid": "ben.ng.2009", | |  | "code": "IS102" | |  | }, | |  | { | |  | "userid": "ben.ng.2009", | |  | "code": "IS103" | |  | } | |  | ] | |  | } | |  |
| 13\* | Test JSON output when running command for dump user table | url:  http://localhost:8084/blabblabblab/user-dump?r={ "userid": "ian.ng.2009" } | Type in the command in url | |  |  | | --- | --- | |  | { | |  | "status": "success", | |  | "userid": "ian.ng.2009", | |  | "password": "qwerty136", | |  | "name": "Ian NG", | |  | "school": "SIS", | |  | "edollar": 200.00 | |  | } | | |  |  | | --- | --- | |  | { | |  | "status": "success", | |  | "userid": "ian.ng.2009", | |  | "password": "qwerty136", | |  | "name": "Ian NG", | |  | "school": "SIS", | |  | "edollar": 200.00 | |  | } | | PASS |
| 14\* | Test JSON outpun when running command for update bid | url:  http://localhost:8084/blabblabblab/update-bid?r={ "userid": "ian.ng.2009",”amount”:11.0,”code”:”IS100”,”section”:”s1”} | Type in the command in url | {  “status”:”success”  } | {“status”:”success”} | PASS |
|  | Test JSON outpun when running command for update bid with invalid input | url:  http://localhost:8084/blabblabblab/update-bid?r={ "userid": "ian.ng.2012",”amount”:11.0,”code”:”IS100”,”section”:”s1”} | Type in the command in url | {  “status”:”error”  “message”:”invalid userid”  } |  | PASS |
| 15\* | Test JSON outpun when running command for delete bid | url:  http://localhost:8084/blabblabblab/delete-bid?r= {"userid": "ada.goh.2012", "code": "IS100", "section": "S1"} | Type in the command in url | {  “status”:”success”  } |  | PASS |
|  | Test JSON outpun when running command for delete bid with invalid command | url:  http://localhost:8084/blabblabblab/delete-bid?r={ "userid": "ian.ng.2012",”code”:”IS100”,”section”:”s1”} | Type in the command in url | {  “status”:”error”  “message”:”no such bid”  } | { "status": "error", "message": [ "invalid course" ] } | PASS |
| 16\* | Test JSON outpun when running command for dump bid table | url:  http://localhost:8084/app/ blabblabblab/bid-dump?r={"course":"IS100","section":"S1"} | Type in the command in url | {  "status": "success",  "bids": [  {  "row": 1, "userid": "zac.ng.2009", "amount": 33.00, "result": "in"  }, {  "row": 2, "userid":  "yasir.ng.2009",  "amount": 32.00,  "result": "in"  }, {  "row": 3, "userid":  "xavier.ng.2009",  "amount": 31.00, "result": "in"  }, {  "row": 4, "userid": "winston.ng.2009", "amount": 30.00, "result": "in"  }, {  "row": 5, "userid": "valarie.ng.2009", "amount": 29.00, "result": "in"  }, {  "row": 6, "userid": "ursala.ng.2009", "amount": 28.00, "result": "in"  }, {  "row": 7, "userid": "timothy.ng.2009", "amount": 27.00, "result": "in"  }, {  "row": 8, "userid": "steven.ng.2009", "amount": 26.00, "result": "in"  }, {  "row": 9, "userid": "parker.ng.2009", "amount": 24.00, "result": "out"  }, {  "row": 10, "userid": "quiten.ng.2009", "amount": 24.00, "result": "out"  }, {  "row": 11, "userid": "ricky.ng.2009", "amount": 24.00, "result": "out"  }, {  "row": 12, "userid": "olivia.ng.2009", "amount": 22.00, "result": "out"  }, {  "row": 13, "userid": "neilson.ng.2009", "amount": 21.00, "result": "out"  }, {  "row": 14, "userid": "maggie.ng.2009", "amount": 20.00, "result": "out" }, { "row": 15, "userid": "larry.ng.2009", "amount": 19.00, "result": "out"  }, {  "row": 16, "userid": "ian.ng.2009", "amount": 18.00, "result": "out"  }, {  "row": 17, "userid": "harry.ng.2009", "amount": 17.00, "result": "out"  }, {  "row": 18, "userid": "fred.ng.2009", "amount": 15.00, "result": "out"  }, {  "row": 19, "userid": "eddy.ng.2009", "amount": 14.00, "result": "out"  }, {  "row": 20, "userid": "dawn.ng.2009", "amount": 13.00, "result": "out"  }, {  "row": 21, "userid": "calvin.ng.2009", "amount": 12.00, "result": "out"  }, {  "row": 22, "userid": "ben.ng.2009", "amount": 11.00, "result": "out" } ] } | { "status": "success", "bids": [ { "row": 1, "userid": "zac.ng.2009", "amount": 33.00, "result": "in" }, { "row": 2, "userid": "yasir.ng.2009", "amount": 32.00, "result": "in" }, { "row": 3, "userid": "xavier.ng.2009", "amount": 31.00, "result": "in" }, { "row": 4, "userid": "winston.ng.2009", "amount": 30.00, "result": "in" }, { "row": 5, "userid": "valarie.ng.2009", "amount": 29.00, "result": "in" }, { "row": 6, "userid": "ursala.ng.2009", "amount": 28.00, "result": "in" }, { "row": 7, "userid": "timothy.ng.2009", "amount": 27.00, "result": "in" }, { "row": 8, "userid": "steven.ng.2009", "amount": 26.00, "result": "in" }, { "row": 9, "userid": "parker.ng.2009", "amount": 24.00, "result": "out" }, { "row": 10, "userid": "quiten.ng.2009", "amount": 24.00, "result": "out" }, { "row": 11, "userid": "ricky.ng.2009", "amount": 24.00, "result": "out" }, { "row": 12, "userid": "olivia.ng.2009", "amount": 22.00, "result": "out" }, { "row": 13, "userid": "neilson.ng.2009", "amount": 21.00, "result": "out" }, { "row": 14, "userid": "maggie.ng.2009", "amount": 20.00, "result": "out" }, { "row": 15, "userid": "larry.ng.2009", "amount": 19.00, "result": "out" }, { "row": 16, "userid": "ian.ng.2009", "amount": 18.00, "result": "out" }, { "row": 17, "userid": "harry.ng.2009", "amount": 17.00, "result": "out" }, { "row": 18, "userid": "fred.ng.2009", "amount": 15.00, "result": "out" }, { "row": 19, "userid": "eddy.ng.2009", "amount": 14.00, "result": "out" }, { "row": 20, "userid": "dawn.ng.2009", "amount": 13.00, "result": "out" }, { "row": 21, "userid": "calvin.ng.2009", "amount": 12.00, "result": "out" }, { "row": 22, "userid": "ben.ng.2009", "amount": 11.00, "result": "out" } ] } |  |
|  | Test JSON output when running command for dump bid table with invalid input | url:  http://localhost:8084/blabblabblab/bid-dump?r={“course”:”is100”,”section”:”s100”} | Type in the command in url | {  “status”:”error”  “message”:”invalid section”  } | { "status": "error", "message": [ "invalid section" ] } | PASS |
| 17\* | Test JSON outpun when running command for dump section table | url:  http://localhost:8084/blabblabblab/section-dump?r={“course”:”is100”,”section”:”s1”} | Type in the command in url | {  "status": "success", "students": [ {  "userid": "zac.ng.2009", "amount": 33.00  }, {  "userid": "yasir.ng.2009", "amount": 32.00  }, {  "userid": "xavier.ng.2009", "amount": 31.00  }, {  "userid": "winston.ng.2009", "amount": 30.00  }, {  "userid": "valarie.ng.2009", "amount": 29.00  }, {  "userid": "ursala.ng.2009", "amount": 28.00  }, {  "userid": "timothy.ng.2009", "amount": 27.00  }, {  "userid": "steven.ng.2009", "amount": 26.00  } ] } | { "status": "success", "students": [ { "userid": "zac.ng.2009", "amount": 33.00 }, { "userid": "yasir.ng.2009", "amount": 32.00 }, { "userid": "xavier.ng.2009", "amount": 31.00 }, { "userid": "winston.ng.2009", "amount": 30.00 }, { "userid": "valarie.ng.2009", "amount": 29.00 }, { "userid": "ursala.ng.2009", "amount": 28.00 }, { "userid": "timothy.ng.2009", "amount": 27.00 }, { "userid": "steven.ng.2009", "amount": 26.00 } ] } | PASS |
|  | Test JSON output when running command for dump section table with invalid input | url:  http://localhost:8084/blabblabblab/section-dump?r={“course”:”is100”,”section”:”s100”} | Type in the command in url | {  “status”:”error”  “message”:”invalid course”  } | { "status": "error", "message": [ "invalid course" ] } | PASS |
| 18\* | Check whether clearing round 1 logic working |  | Check database for bid, failed bid and section student table | Bid table empty  Failed bid and section student table populated | Bid table empty  Failed bid and section student table populated | PASS |
| 19\* | Start round 2 |  | Press start round after round 1 is stopped | {  "status":"success",  "round": 2  } | { "status": "success", "round": 12 } | PASS |
| 20\* | Start round 2 using JSON | url :  [http://localhost:8084/blabblabblab/start](http://localhost:8084/app/json-service.compass/start) | Rebootsrap and stop round | {  "status":"success",  "round": 2  } | { "status": "success", "round": 12 } | PASS |
| 21\* | Start round after round 2 is started |  | Press start round after round 2 has started | {  "status":"success",  "round": 2  } | { "status": "success", "round": 12 } | PASS |
| 22\* | Stop round 2 |  | Press stop round when round 2 is running | {  "status":"success"  } | { "status": "success"} | PASS |
| 22\* | Stop round 2 using JSON | url :  [http://localhost:8084/blabblabblab /stop](http://localhost:8084/blabblabblab%20/stop) | Rebootstrap and start round 2, then stop using JSON | {  "status":"success"  } | { "status": "success"} | PASS |
| 23\* | Stop round 2 after the round 2 is stopped |  | Press stop round when round 2 is running | {  "status":"error",  “message”:”round already ended”  } | { "status":"error",  “message”:”round already ended”} | PASS |
| 24\* | Stop round 2 after the round 2 is stopped using JSON | url :  [http://localhost:8084/blabblabblab /stop](http://localhost:8084/blabblabblab%20/stop) | Press stop round when round 2 is running | {  "status":"error",  “message”:”round already ended”  } | { "status":"error",  “message”:”round already ended”} | PASS |
| 25\* | Check whether clearing round 2 logic working |  | Check database for suddenDeath, failed bid and section student table | suddenDeath table empty  Failed bid and section student table increased | suddenDeath table empty  Failed bid and section student table increased | PASS |
| 26\* | Start round after round 2 has ended |  | Press start round after round 2 has started | {  "status":"error",  “message”:”round 2 ended”  } | { "status":"error",  “message”:”round 2 ended”} | PASS |
| 27\* | Start round after round 2 has ended with JSON | url :  [http://localhost:8084/blabblabblab /start](http://localhost:8084/blabblabblab%20/start) | Press start round after round 2 has started | {  "status":"error",  “message”:”round 2 ended”  } | { "status":"error",  “message”:”round 2 ended”} | PASS |