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**Unit test design**

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| **Name** | **Class under test** | **Stage** |
| setUp | Purchaseorderdetail | One object of type Purchaseorderdetail, and one Purchaseorderheader. |
| setUp | Purchaseorderheader | One object of type Purchaseorderheader, one Businessentity, one person, and one employee. |
| setUp | Shipmethod | One object of type shipmethod,. |
| setUpEdit | Shipmethod | One object of type shipmethod. |
| setUp | Vendor | One object of type vendor, and one object of type Businessentity. |

**Test cases**

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| **Test objective:** To verify if the Purchaseorderdetail service correctly adds a Purchaseorderdetail. | | | | |
| **Class** | **Method** | **Stage** | **Input** | **Output** |
| Purchaseorderdetail | add | setUp | orderqty = 0  unitprice = 0  purchaseorderheader = “h” | The Purchaseorderdetail was added to the Purchaseorderdetail service if the id exists. |

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| **Test objective:** To verify if the Purchaseorderdetail service correctly edits a Purchaseorderdetail. | | | | |
| **Class** | **Method** | **Stage** | **Input** | **Output** |
| Purchaseorderdetail | edit | setUpUpdate | orderqty = 0  unitprice = 0  purchaseorderheader = “h” | The Purchaseorderdetail was edited in the Purchaseorderdetail service if the purchaseorderheader and the purchaseorderdetail id exists. |

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| **Test objective:** To verify if the Purchaseorderheader service correctly adds a Purchaseorderheader. | | | | |
| **Class** | **Method** | **Stage** | **Input** | **Output** |
| Purchaseorderheader | add | setUp | purchaseorderheader = “h”  orderdate = actual date  subtotal = 0  businessentity = b  person = p  employee = e | The Purchaseorderheader was added in the Purchaseorderheader service if the ids exists. |

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| **Test objective:** To verify if the Purchaseorderheader service correctly edits a Purchaseorderheader. | | | | |
| **Class** | **Method** | **Stage** | **Input** | **Output** |
| Purchaseorderheader | edit | setUp | purchaseorderheader = “h”  orderdate = actual date  subtotal = 0.1  businessentity = b  person = p  employee = e | The Purchaseorderheader was edited in the Purchaseorderheader service if the ids exists. |

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| **Test objective:** To verify if the Shipmethod service correctly adds a Shipmethod. | | | | |
| **Class** | **Method** | **Stage** | **Input** | **Output** |
| Shipmethod | add | setUp | Shipmethod = “s”  Shipbase = 0  Shiprate = 0  Name = “rapido” | The Shipmethod was added in the Shipmethod service. |

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| **Test objective:** To verify if the Shipmethod service correctly edits a Shipmethod. | | | | |
| **Class** | **Method** | **Stage** | **Input** | **Output** |
| Shipmethod | edit | setUpEdit | Shipmethod = “s”  Shipbase = 0.1  Shiprate = 0.1  Name = “fast” | The Shipmethod was edited in the Shipmethod service if the id exists. |

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| **Test objective:** To verify if the Vendor service correctly adds a Vendor. | | | | |
| **Class** | **Method** | **Stage** | **Input** | **Output** |
| Vendor | add |  | Vendor = “v”  Purchasingwebserviceurl = “https//:www.icesi.edu.co”  businessentity = b  businessentityid = id de b  Name = “icesi” | The Vendor  was added in the Vendor service if the id’s exists. |

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| **Test objective:** To verify if the Vendor service correctly edits a Vendor. | | | | |
| **Class** | **Method** | **Stage** | **Input** | **Output** |
| Vendor | edit | setUp | Vendor = “v”  Purchasingwebserviceurl = “https//:www.google.com”  businessentity = b  creditrating = 1  Name = “google” | The Vendor  was edited in the Vendor service if the id’s exists. |

**Integrated test design**

**Set up**

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| **Name** | **Class under test** | **Stage** |
| setUp | Purchaseorderdetail | One object of type Purchaseorderdetail, and one Purchaseorderheader, and their respective services to save them in the repository. |
| setUpUpdate | Purchaseorderdetail |  |
| setUp | Purchaseorderheader | One object of type Purchaseorderheader, one Businessentity, one person, and one employee, and their respective services to save them in the repository. |
| setUp | Shipmethod | One object of type shipmethod, and it’s service to save it in the repoitory. |
| setUpEdit | Shipmethod | One object of type shipmethod, and it’s service to save it in the repository. |
| setUp | Vendor | One object of type vendor, and one object of type Businessentity, and their respective services to save them in the repository. |