

Diseño de Pruebas Unitarias

| Clase | Método | Escenario | Valores Entrada | Resultado |
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| PersonService | save | PersonRepository vacío y BusinessentityRepository vacío. | Person con: <ul style="list-style-type: none"> modifieddate: 1/1/1970, 00:00:00 firstname: Esteban lastname: Ariza businessentity: <u>nueva</u> | Se guarda Person, se guarda Businessentity y retorna la Person guardada. |
| | | | Person con: <ul style="list-style-type: none"> modifieddate: <u>null</u> firstname: Esteban lastname: Ariza businessentity: <u>nueva</u> | No se guarda Person y retorna null. |
| | | | Person con: <ul style="list-style-type: none"> modifieddate: 1/1/1970, 00:00:00 firstname: Es lastname: Ariza businessentity: <u>nueva</u> | |
| | | | Person con: <ul style="list-style-type: none"> modifieddate: 1/1/1970, 00:00:00 firstname: Esteban lastname: Ar businessentity: <u>nueva</u> | |
| | update | PersonRepository con un Person con id 1 y BusinessentityRepository vacío. | Person con: <ul style="list-style-type: none"> businessentityid: 1 modifieddate: 1/1/1970, 00:00:00 firstname: Esteban lastname: Ariza businessentity: <u>nueva</u> | Se actualiza la Person con id 1 del PersonRepository y retorna la Person actualizada. |
| | | | Person con: <ul style="list-style-type: none"> businessentityid: 1 modifieddate: <u>null</u> firstname: Esteban lastname: Ariza businessentity: <u>nueva</u> | No se actualiza la Person con id 1 del PersonRepository y retorna null. |
| | | | Person con: <ul style="list-style-type: none"> businessentityid: 1 | |

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| | | | <ul style="list-style-type: none"> • modifieddate: 1/1/1970, 00:00:00 • firstname: Es • lastname: Ariza • businessentity: <u>nueva</u> | |
| | | | Person con: <ul style="list-style-type: none"> • businessentityid: 1 • modifieddate: 1/1/1970, 00:00:00 • firstname: Esteban • lastname: Ar • businessentity: <u>nueva</u> | |
| | | PersonRepository vacio y BusinessentityRepository vacio. | Person con: <ul style="list-style-type: none"> • businessentityid: 1 • modifieddate: 1/1/1970, 00:00:00 • firstname: Esteban • lastname: Ariza • businessentity: <u>nueva</u> | No se actualiza la Person con id 1 del PersonRepository (Porque no existe) y retorna null. |
| AddressService | save | AddressRepository vacio y StateprovinceRepository con un Stateprovince con id 1. | Address con: <ul style="list-style-type: none"> • addressline1: Calle 15 #121-25 • city: Cali • postalcode: 760008 y stateprovinceid 1. | Se guarda Address con su asociación y retorna el Address guardado. |
| | | | Address con: <ul style="list-style-type: none"> • addressline1: <u>en blanco</u> • city: Cali • postalcode: 760008 y stateprovinceid 1. | No se guarda Address y retorna null. |
| | | | Address con: <ul style="list-style-type: none"> • addressline1: Calle 15 #121-25 • city: <u>en blanco</u> • postalcode: 760008 y stateprovinceid 1. | |
| | | | Address con: <ul style="list-style-type: none"> • addressline1: Calle 15 #121-25 • city: Cali • postalcode: <u>en blanco</u> y stateprovinceid 1. | |
| | | AddressRepository vacio y StateprovinceRepository vacio. | Address con: <ul style="list-style-type: none"> • addressline1: Calle 15 #121-25 • city: Cali • postalcode: 760008 y stateprovinceid 1. | |

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| | update | AddressRepository con un Address con id 1 y StateprovinceRepository con un Stateprovince con id 1. | Address con: <ul style="list-style-type: none"> • addressid: 1 • addressline1: Calle 15 #121-25 • city: Cali • postalcode: 760008 y stateprovinceid 1. | Se actualiza el Address con id 1 del AddressRepository y retorna el Address actualizado. |
| | | | Address con: <ul style="list-style-type: none"> • addressid: 1 • addressline1: <u>en blanco</u> • city: Cali • postalcode: 760008 y stateprovinceid 1. | No se actualiza el Address con id 1 del AddressRepository y retorna null. |
| | | | Address con: <ul style="list-style-type: none"> • addressid: 1 • addressline1: Calle 15 #121-25 • city: <u>en blanco</u> • postalcode: 760008 y stateprovinceid 1. | |
| | | | Address con: <ul style="list-style-type: none"> • addressid: 1 • addressline1: Calle 15 #121-25 • city: Cali • postalcode: <u>en blanco</u> y stateprovinceid 1. | |
| BusinessentityaddressService | save | AddressRepository con un Address con id 1 y StateprovinceRepository vacio. | Address con: <ul style="list-style-type: none"> • addressid: 1 • addressline1: Calle 15 #121-25 • city: Cali • postalcode: 760008 y stateprovinceid 1. | No se actualiza el Address con id 1 del AddressRepository (Porque no existe) y retorna null. |
| | | AddressRepository vacio 1 y StateprovinceRepository con un Stateprovince con id 1. | | |
| | | BusinessentityaddressRepository vacio, AddressRepository con un Address con id 1, BusinessentityRepository con un Businessentity con id 1 y AdresstypeRepository con un Adresstype con id 1. | | |
| | | BusinessentityaddressRepository vacio, AddressRepository vacio, BusinessentityRepository con un Businessentity con id 1 y AdresstypeRepository con un Adresstype con id 1. | | |
| | save | BusinessentityaddressRepository vacio, AddressRepository con un | Businessentityaddress nuevo, addressid 1, businessentityid 1 y businessentityid 1. | Se guarda Businessentityaddress con sus asociaciones y retorna el Businessentityaddress guardado. |
| | | BusinessentityaddressRepository vacio, AddressRepository con un | | No se guarda Businessentityaddress y retorna null. |

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| | | Address con id 1, BusinessentityRepository vacio y AddressRepository con un AddressRepository con id 1. | | |
| | | BusinessentityaddressRepository vacio, AddressRepository con un Address con id 1, BusinessentityRepository con un Businessentity con id 1 y AddressRepository vacio. | | |
| | update | BusinessentityaddressRepository con un Businessentityaddress con id (1,1,1), AddressRepository con un Address con id 1, BusinessentityRepository con un Businessentity con id 1 y AddressRepository con un AddressRepository con id 1. | Businessentityaddress con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> businessentityid: 1 addressed: 1 addressypeid: 1 addressid 1, businessentityid 1 y businessentityid 1. | Se actualiza el Businessentityaddress con id (1,1,1) del BusinessentityaddressRepository y retorna el Businessentityaddress actualizado. |
| | | BusinessentityaddressRepository con un Businessentityaddress con id (1,1,1), AddressRepository vacio, BusinessentityRepository con un Businessentity con id 1 y AddressRepository con un AddressRepository con id 1. | | No se actualiza el Businessentityaddress con id (1,1,1) del BusinessentityaddressRepository y retorna null. |
| | | BusinessentityaddressRepository con un Businessentityaddress con id (1,1,1), AddressRepository con un Address con id 1, BusinessentityRepository vacio y AddressRepository con un AddressRepository con id 1. | | No se actualiza el Businessentityaddress con id (1,1,1) del BusinessentityaddressRepository (Porque no existe) y retorna null. |
| | | BusinessentityaddressRepository con un Businessentityaddress con id (1,1,1), AddressRepository con un Address con id 1, BusinessentityRepository con un Businessentity con id 1 y AddressRepository vacio. | | |
| | | BusinessentityaddressRepository vacio, AddressRepository con un Address con id 1, BusinessentityRepository con un Businessentity con id 1 y AddressRepository con un AddressRepository con id 1. | | |
| PersonphoneService | save | PersonphoneRepository vacio, PersonRepository con un Person con id 1 y | Personphone con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenummer: 3183741903 | Se guarda Personphone con sus asociaciones y retorna el Personphone guardado. |

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| | | PhonenumbertypeRepository con un Phonenumbertype con id 1. | businessentityid 1 y phonenumbertypeid 1. | No se guarda Personphone y retorna null. |
| | | | Personphone con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenumber: 4847803 businessentityid 1 y phonenumbertypeid 1. | |
| | | PersonphoneRepository vacio, PersonRepository vacio y PhonenumbertypeRepository con un Phonenumbertype con id 1. | Personphone con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenumber: 3183741903 businessentityid 1 y phonenumbertypeid 1. | |
| | update | PersonphoneRepository vacio, PersonRepository con un Person con id 1 y PhonenumbertypeRepository vacio. | | |
| | | PersonphoneRepository con un Personphone con id (null, 3183741903, null), PersonRepository con un Person con id 1 y PhonenumbertypeRepository con un Phonenumbertype con id 1. | Personphone con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenumber: 3183741903 businessentityid 1 y phonenumbertypeid 1. | Se actualiza el Personphone con id (null, 3183741903, null) del PersonphoneRepository y retorna el Personphone actualizado. |
| | | PersonphoneRepository con un Personphone con id (null, 3183741903, null), PersonRepository vacio y PhonenumbertypeRepository con un Phonenumbertype con id 1. | | No se actualiza el Personphone con id (null, 3183741903, null) del PersonphoneRepository y retorna null. |
| | | PersonphoneRepository con un Personphone con id (null, 3183741903, null), PersonRepository con un Person con id 1 y PhonenumbertypeRepository vacio. | | |
| | | PersonphoneRepository vacio, PersonRepository con un Person con id 1 y PhonenumbertypeRepository con un Phonenumbertype con id 1. | | No se actualiza el Personphone con id (null, 3183741903, null) del PersonphoneRepository (Porque no existe) y retorna null. |

Diseño de Pruebas de Integración

| Clase | Método | Escenario | Valores Entrada | Resultado |
|---------------|--------|--|---|---|
| PersonService | save | PersonRepository vacío y BusinessentityRepository vacío. | Person con: <ul style="list-style-type: none"> modifieddate: 1/1/1970, 00:00:00 firstname: Esteban lastname: Ariza businessentity: <u>nueva</u> | Se guarda Person, se guarda Businessentity, Se generar las dependencias entre las dos y retorna la Person guardada. |
| | | PersonRepository con un Person con id 1 y BusinessentityRepository con un Person con id 1. | Person con: <ul style="list-style-type: none"> modifieddate: <u>null</u> firstname: Esteban lastname: Ariza businessentity: <u>nueva</u> | No se guarda Person y retorna null. |
| | | | Person con: <ul style="list-style-type: none"> modifieddate: 1/1/1970, 00:00:00 firstname: Es lastname: Ariza businessentity: <u>nueva</u> | |
| | | | Person con: <ul style="list-style-type: none"> modifieddate: 1/1/1970, 00:00:00 firstname: Esteban lastname: Ar businessentity: <u>nueva</u> | |
| | update | | Person con: <ul style="list-style-type: none"> businessentityid: 1 modifieddate: 1/1/1970, 00:00:01 firstname: Isabella lastname: Villamil | Se actualiza la Person con id 1 del PersonRepository y retorna la Person actualizada. |
| | | | Person con: <ul style="list-style-type: none"> businessentityid: 1 modifieddate: <u>null</u> firstname: Isabella lastname: Villamil | No se actualiza la Person con id 1 del PersonRepository y retorna null. |
| | | | Person con: <ul style="list-style-type: none"> businessentityid: 1 modifieddate: 1/1/1970, 00:00:01 firstname: Is lastname: Villamil | |
| | | | Person con: <ul style="list-style-type: none"> businessentityid: 1 | |

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| | | | <ul style="list-style-type: none"> modifieddate: 1/1/1970, 00:00:01 firstname: Isabella lastname: Vi | |
| | | | Person con: <ul style="list-style-type: none"> businessentityid: 2 modifieddate: 1/1/1970, 00:00:01 firstname: Isabella lastname: Villamil | No se actualiza la Person con id 2 del PersonRepository (Porque no existe) y retorna null. |
| AddressService | save | AddressRepository vacio y StateprovinceRepository con un Stateprovince con id 1. | Address con: <ul style="list-style-type: none"> addressline1: Calle 15 #121-25 city: Cali postalcode: 760008 y stateprovinceid 1. | Se guarda Address con su asociación y retorna el Address guardado. |
| | | AddressRepository con un Address con id 1 y StateprovinceRepository con un Stateprovince con id 1. | Address con: <ul style="list-style-type: none"> addressline1: <u>en blanco</u> city: Cali postalcode: 760008 y stateprovinceid 1. | No se guarda Address y retorna null. |
| | update | | Address con: <ul style="list-style-type: none"> addressline1: Calle 15 #121-25 city: <u>en blanco</u> postalcode: 760008 y stateprovinceid 1. | |
| | | | Address con: <ul style="list-style-type: none"> addressline1: Calle 15 #121-25 city: Cali postalcode: <u>en blanco</u> y stateprovinceid 1. | |
| | | | Address con: <ul style="list-style-type: none"> addressline1: Calle 15 #121-25 city: Cali postalcode: 760008 y stateprovinceid 2. | |
| | update | AddressRepository con un Address con id 1 y StateprovinceRepository con dos Stateprovince con ids 1 y 2. | Address con: <ul style="list-style-type: none"> addressid: 1 addressline1: Calle 5 city: Bogota postalcode: 760009 y stateprovinceid 2. | Se actualiza el Address con id 1 del AddressRepository y retorna el Address actualizado. |
| | | | Address con: <ul style="list-style-type: none"> addressid: 1 addressline1: <u>en blanco</u> | No se actualiza el Address con id 1 del AddressRepository y retorna null. |

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| | | | <ul style="list-style-type: none"> city: Bogota postalcode: 760009 y stateprovinceid 2. | |
| | | | Address con: <ul style="list-style-type: none"> addressid: 1 addressline1: Calle 5 city: <u>en blanco</u> postalcode: 760009 y stateprovinceid 2. | |
| | | | Address con: <ul style="list-style-type: none"> addressid: 1 addressline1: Calle 5 city: Bogota postalcode: <u>en blanco</u> y stateprovinceid 2. | |
| | | | Address con: <ul style="list-style-type: none"> addressid: 1 addressline1: Calle 5 city: Bogota postalcode: 760009 y stateprovinceid 3. | |
| | | | Address con: <ul style="list-style-type: none"> addressid: 2 addressline1: Calle 5 city: Bogota postalcode: 760009 y stateprovinceid 2. | No se actualiza el Address con id 1 del AddressRepository (Porque no existe) y retorna null. |
| BusinessentityaddressService | save | BusinessentityaddressRepository vacio, AddressRepository con un Address con id 1, BusinessentityRepository con un Businessentity con id 1 y AddressstypeRepository con un Addressstype con id 1. | Businessentityaddress con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> addressid: 1 addressstypeid: 1 businessentityid: 1 addressid 1, businessentityid 1 y businessentityid 1. | Se guarda Businessentityaddress con sus asociaciones y retorna el Businessentityaddress guardado. |
| | | BusinessentityaddressRepository con un Businessentityaddress con id (1,1,1), AddressRepository con un Address con id 1, BusinessentityRepository con un Businessentity con id 1 y AddressstypeRepository con un Addressstype con id 1. | Businessentityaddress con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> addressid: 2 addressstypeid: 1 businessentityid: 1 addressid 2, businessentityid 1 y businessentityid 1. | No se guarda Businessentityaddress y retorna null. |
| | | | Businessentityaddress con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> addressid: 1 addressstypeid: 2 businessentityid: 1 addressid 1, businessentityid 2 y businessentityid 1. | |
| | | | Businessentityaddress con: | |

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| | | | <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> addressid: 1 addresstypeid: 1 businessentityid: 2 <p>addressid 1, businessentityid 1 y businessentityid 2.</p> | |
| | update | BusinessentityaddressRepository con un Businessentityaddress con id (1,1,1), AddressRepository con dos Address con ids 1 y 2, BusinessentityRepository con dos Businessentity con ids 1 y 2, y AddresstypeRepository con dos Addresstype con ids 1 y 2. | <p>Businessentityaddress con:</p> <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> addressid: 1 addresstypeid: 1 businessentityid: 1 <p>addressid 2, businessentityid 2 y businessentityid 2.</p> | Se actualiza el Businessentityaddress con id (1,1,1) del BusinessentityaddressRepository y retorna el Businessentityaddress actualizado. |
| | | | <p>Businessentityaddress con:</p> <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> addressid: 1 addresstypeid: 1 businessentityid: 1 <p>addressid 3, businessentityid 2 y businessentityid 2.</p> | No se actualiza el Businessentityaddress con id (1,1,1) del BusinessentityaddressRepository y retorna null. |
| | | | <p>Businessentityaddress con:</p> <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> addressid: 1 addresstypeid: 1 businessentityid: 1 <p>addressid 2, businessentityid 3 y businessentityid 2.</p> | |
| | | | <p>Businessentityaddress con:</p> <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> addressid: 1 addresstypeid: 1 businessentityid: 1 <p>addressid 2, businessentityid 2 y businessentityid 3.</p> | |
| | | | <p>Businessentityaddress con:</p> <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> addressid: 2 addresstypeid: 2 businessentityid: 2 <p>addressid 2, businessentityid 2 y businessentityid 2.</p> | No se actualiza el Businessentityaddress con id (1,1,1) del BusinessentityaddressRepository (Porque no existe) y retorna null. |
| PersonphoneService | save | PersonphoneRepository vacio, PersonRepository con un Person con id 1 y PhonenumbertypeRepository con un Phonenumbertype con id 1. | <p>Personphone con:</p> <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenumber: 3183741903 businessentityid: 1 phonenumbertypeid: 1 <p>businessentityid 1 y phonenumbertypeid 1.</p> | Se guarda Personphone con sus asociaciones y retorna el Personphone guardado. |

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| | | PersonphoneRepository con un Personphone con id (3183741903, 1, 1), PersonRepository con un Person con id 1 y PhonenumbertypeRepository con un Phonenumbertype con id 1. | Personphone con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenumber: 4847803 businessentityid: 1 phonenumbertypeid: 1 businessentityid 1 y phonenumbertypeid 1. | No se guarda Personphone y retorna null. |
| | | | Personphone con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenumber: 3183741903 businessentityid: 2 phonenumbertypeid: 1 businessentityid 2 y phonenumbertypeid 1. | |
| | | | Personphone con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenumber: 3183741903 businessentityid: 1 phonenumbertypeid: 2 businessentityid 1 y phonenumbertypeid 2. | |
| | update | PersonphoneRepository con un Personphone con id (3183741903, 1, 1), PersonRepository con dos Person con ids 1 y 2, y PhonenumbertypeRepository con dos Phonenumbertype con id 1 y 2. | Personphone con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenumber: 3183741903 businessentityid: 1 phonenumbertypeid: 1 businessentityid 2 y phonenumbertypeid 2. | Se actualiza el Personphone con id (3183741903, 1, 1) del PersonphoneRepository y retorna el Personphone actualizado. |
| | | | Personphone con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenumber: 3183741903 businessentityid: 1 phonenumbertypeid: 1 businessentityid 3 y phonenumbertypeid 2. | No se actualiza el Personphone con id (3183741903, 1, 1) del PersonphoneRepository y retorna null. |
| | | | Personphone con: <ul style="list-style-type: none"> id: <ul style="list-style-type: none"> phonenumber: 3183741903 businessentityid: 1 | |

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| | | | <ul style="list-style-type: none"> ○ phonenumbertypeid: 1 businessentityid 2 y phonenumbertypeid 3. | |
| | | | Personphone con: <ul style="list-style-type: none"> • id: <ul style="list-style-type: none"> ○ phonenumber: 3158728989 ○ businessentityid: 2 ○ phonenumbertypeid: 2 businessentityid 2 y phonenumbertypeid 2. | No se actualiza el Personphone con id (3183741903, 1, 1) del PersonphoneRepository (Porque no existe) y retorna null. |