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| --- |
| UI |
| -serv :LocatariService& |
|  |
| +UI (serv : LocatariService&) |
| +startUI () : void |

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| --- |
| ValidatorException |
| -msg : string |
|  |
| +ValidatorException (msg : string) |
| +getMessage () : string |

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| --- |
| Validator |
|  |
| +validareLocatar (el : const Locatar&) : bool |

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| --- |
| Locatar |
| -ap : int |
| -nume : string |
| -tip : string |
| -suprafata : double |
|  |
| friend ostream& operator << (os : ostream&, ob : const Locatar&) |
|  |
| +Locatar () |
| +Locatar (ap : int, nume : string, tip : string, suprafata : double) |
| +Locatar (ot : const Locatar&) |
| +get\_ap () : int |
| +get\_nume () : string |
| +get\_tip () : string |
| +get\_suprafata () : double |
| +set\_ap (ap : int) : void |
| +set\_nume (nume : string) : void |
| +set\_tip (tip : string) : void |
| +set\_suprafata (suprafata : double) : void |
| operator== (ot : const Locatar&) : bool |

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| --- |
| LocatariService |
| -repo : LocatarRepo& |
| -val : const Validator& |
|  |
| +LocatariService (repo : LocatarRepo&, val : const Validator&) |
| +add (ap : int, nume : string, tip : string, suprafata : double) : void |
| +getAll () : const VectorDinamic<Locatar>& |
| +sterge (poz : int) : Locatar |
| +modifica (poz : int, ap : int, nume : string, tip : string, suprafata : double) : const Locatar& |
| +cautareLocatar (ap : int, nume : string, tip : string, suprafata : double) : int |
| +filtrare (fct : function <bool(const Locatar&)>) : VectorDinamic<Locatar> |
| +sortare (condSortare : bool\* (const Locatar&, const Locatar&), reversed : int ) : VectorDinamic<Locatar> |
| +sortareNume (reversed : int) : VectorDinamic<Locatar> |
| +sortareSuprafata (reversed : int) : VectorDinamic<Locatar> |
| +sortareTipSuprafata (reversed : int) : VectorDinamic<Locatar> |
| +filtrareTip (tip : string) : VectorDinamic<Locatar> |
| +filtrareSuprafata (surfMin : double, surfMax : double) : VectorDinamic<Locatar> |

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| --- |
| Tests |
|  |
| -domainTest () : void |
| -storeTest () : void |
| -addTest () : void |
| -validatorTest() : void |
| -stergeTest () : void |
| -modificaTest () : void |
| -modificaRepoTest () : void |
| -cautareLocatarTest () : void |
| -filtrareTest () : void |
| -sortareTest () : void |
| +allTests() : void |

MAIN

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| --- |
| VectorDinamic |
| -cp : int |
| -lg : int |
| -elems : TElement\* |
|  |
| friend class IteratorVectorT<TElement> |
|  |
| -ensureCapacity () : void |
| +VectorDinamic() |
| + VectorDinamic (ot : const VectorDinamic&) |
| +VectorDinamic (v : const vector<TElement>) |
| +toSTLvector () : vector<TElement> |
| +~VectorDinamic () |
| +operator= (ot : const VectorDinamic&) : VectorDinamic<TElement> |
| +push\_back (el : const TElement&) : void |
| +erase (el : const TElement&) : IteratorVectorT<TElement> |
| +get (it : IteratorVectorT<TElement>) : TElement& |
| +set (it : IteratorVector<TElement>) : void |
| +size () : int |
| +empty () : bool |
| +operator[] (poz : int) : TElement& |
| +begin () : IteratorVectorT<TElement> |
| +end () : IteratorVectorT<TElement> |

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| --- |
| IteratorVectorT |
| -v : VectorDInamic<TElement>& |
| -poz : int |
|  |
| friend class VectorDinamic<TElement> |
|  |
| +IteratorVectorT (v : const VectorDinamic<TElement>&) |
| +IteratorVectorT (v : const VectorDinamic<TElement>&, poz : int) |
| +valid () : bool |
| +operator\* () : TElement& |
| +operator++ () : IteratorVectorT& |
| +operator== (ot : const IteratorVectorT&) : bool |
| +operator!= (ot : const IteratorVectorT&) : bool |
| operator+ (val : int) : IteratorVectorT& |

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| RepoException |
| -msg : string |
|  |
| +RepoException (msg : string) |
| +getMessage () : string |

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| LocatarRepo |
| -list : VectorDinamic<Locatar> |
|  |
| +LocatarRepo () |
| +store (el : const Locatar&) : void |
| +getAll () : const VectorDinamic<Locatar>& |
| +sterge (poz : int) : Locatar |
| +modifica (el : const Locatar&, poz : int) : const Locatar& |
| +cautare (el : const Locatar&) : int |