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| **Class RepoException** |
| -message |
| *+get\_message()* |

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| **Class UI** |
| -service |
| -menu()  -sort\_menu()  -read\_command()  -read\_sort()  -read\_number()  -add\_tenant()  -modify\_tenat()  -remove\_tenant()  -print\_tenants()  -search\_apartament()  -print\_by\_type()  -print\_by\_area()  -print\_sorted()  -print\_all() |
| *+run\_app()* |

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| **int main()**  1 |

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| **Class Tests** |
| *+run\_all()* |
| -test\_entity()  -test\_validator()  -test\_myvector()  -test\_repository()  -test\_service()  1 |

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| **Class Validator** |
| +validate\_name()  +validate\_apart()  +validate\_type()  +validate\_area()  1 |

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| **Class ValidatorException** |
| -message |
| *+get\_message()*  \* |

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| **Class Service** |
| -repository  -validator |
| +get\_all\_from\_repo()  +add\_tenant()  +edit\_tenant()  +delete\_tenant()  +find\_apartament()  +filter\_by\_type()  +filter\_by\_area()  +sort\_manager()  1 |

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| **Class Repository**  1 |
| -repo |
| +get\_all()  +find\_apartament()  +find\_name()  +store()  +edit()  +destroy() |

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| **Template Class MyVector**  1 |
| -cap  -lg  -elems  1 |
| +push\_back()  +erase()  +empty()  +size()  +clear()  +begin()  +end()  +toSTDVector()  +operators: ‘=’, ‘==’, ‘[]’ |

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| --- |
| **Class Tenant** |
| -name  -type  -apartament  -area |
| +get\_name()  +get\_type()  +get\_apartament()  +get\_area()  +operators: ‘=’, ’==’, ’<<’ |

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| --- |
| **Template Class MyIterator** |
| -poz  -v (type MyVector) |
| +operators: ‘\*’, ’!=’, ‘++’, ‘+’, ‘-’ |

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| **Class ServiceException**  \* |
| -message |
| *+get\_message()* |

has a…

1

1

caught by

1

has some…

has a…

caught by

create

create and run

1

1

create

create and run

1

1

\*

caught by

throws

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1

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1

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has some…

has a…

has a…

throws

throws

1

1

1

create

create