




Software Testing Address Book



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Introduction

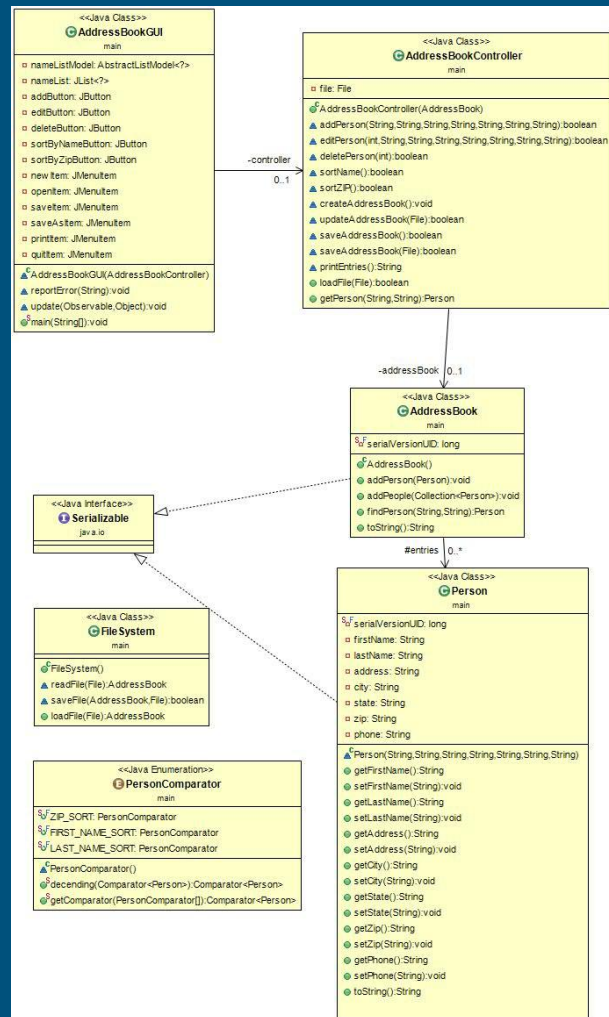
- Build a testable address book
- Store contact information
- GIT
- Eclipse
- Maven

Details of the Problem

- Save address book
- Add/Edit/Delete
- Sort
- Print
- Search

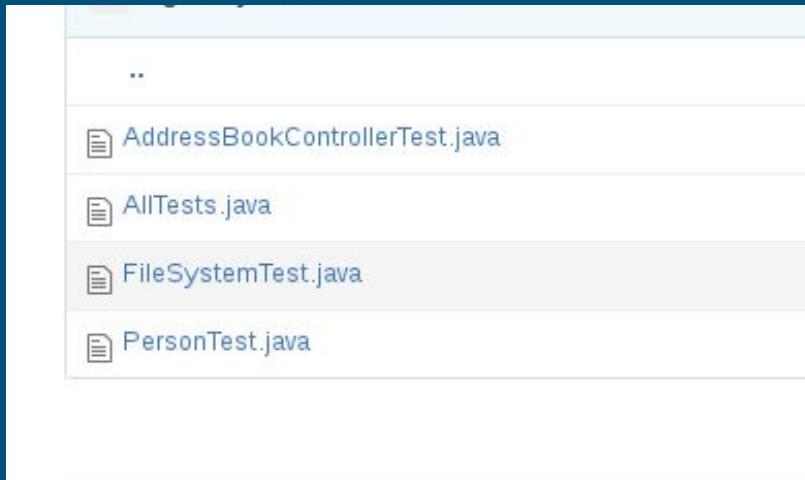
- filterWindow.java
- simpleButtonFileDialog.java
- PersonEdit.java
- AddressBookWindow.java

- AddressBookController.java
- AddressBook.java
- FileSystem.java
- PersonComparator.java
- Person.java



Test Plan

- Each class is tested
- JUnit is used
- ecl Emma
 - coverage



Results of Tests

- All tests pass
- 93% code coverage for non-gui functions

src/main	<div><div></div></div>	93.0 %	759	57	816
src/test	<div><div></div></div>	99.8 %	1,635	3	1,638

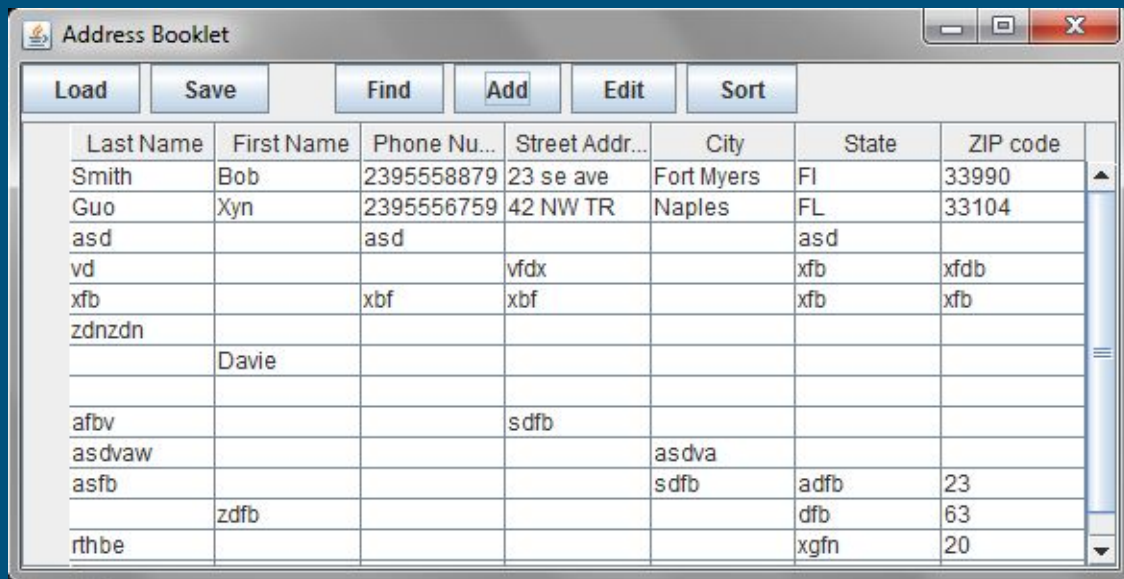
Runs: 33/33 Errors: 0 Failures: 0

unit.AllTests [Runner: JUnit 4] (0.093 s)

- unit.AddressBookControllerTest (0.082 s)
 - InvalidLoadFileTest (0.013 s)
 - testGetDataPoints (0.006 s)
 - testSortZIPDescending (0.009 s)
 - testSortNameLast (0.002 s)
 - testSortNameFirst (0.003 s)
 - testSortZIPAscending (0.002 s)
 - testUpdateAddressBook (0.005 s)
 - testPrintEntries (0.002 s)
 - testSaveAddressBook (0.004 s)
 - saveAddressBook (0.005 s)
 - testDeletePerson (0.002 s)
 - invalidUpdateBookTest (0.002 s)
 - invalidSortTest (0.002 s)
 - testAddPerson (0.001 s)
 - testSortError (0.003 s)
 - testAddPersonExists (0.002 s)
 - testEditPersonCatch (0.001 s)
 - testEditPersonEmpty (0.004 s)
 - testEditPerson (0.002 s)
 - testGetPerson (0.002 s)
 - testCreateAddressBook (0.002 s)
 - InvalidSaveAddressBook (0.001 s)
 - testDeletePersonCatch (0.002 s)
 - testDeletePersonNoValues (0.005 s)
- unit.FileSystemTest (0.008 s)
 - IOExceptionSaveFile (0.001 s)
 - IOExceptionLoadAddressBookTest (0.002 s)
 - readTest (0.002 s)
 - IOExceptionReadTest (0.001 s)
 - loadTest (0.002 s)
- unit.PersonTest (0.003 s)
 - testNumDataPoints (0.001 s)
 - testToString (0.000 s)
 - testNewPerson (0.000 s)
 - testDataPoints (0.002 s)

Conclusion

- More testing for GUI
- Input filtering
- Organization
- GitHub Difficulties
- But it works



The screenshot shows a window titled "Address Booklet" with a standard Windows-style title bar (minimize, maximize, close buttons). Below the title bar is a menu bar with buttons for "Load", "Save", "Find", "Add", "Edit", and "Sort". The main area contains a table with 7 columns: "Last Name", "First Name", "Phone Nu...", "Street Addr...", "City", "State", and "ZIP code". The table has 15 rows of data, some of which are partially filled with placeholder text like "asd", "vdx", "xfb", etc.

Last Name	First Name	Phone Nu...	Street Addr...	City	State	ZIP code
Smith	Bob	2395558879	23 se ave	Fort Myers	FL	33990
Guo	Xyn	2395556759	42 NW TR	Naples	FL	33104
asd		asd			asd	
vd			vfdx		xfb	xfdb
xfb		xbf	xbf		xfb	xfb
zdnzdn						
	Davie					
afbv			sdfb			
asdvaw				asdva		
asfb				sdfb	adfb	23
	zdfb				dfb	63
rthbe					xgfn	20

Questions?
