

COMP6442 Personal Organizer Test Plan

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1. Implemented System Requirement

Basic

- The organiser is able to store a list of contacts with names and phone numbers.
- After exiting and re-running the organiser the contact information can persist.
- The user must be able to: view the contact list, add new contacts, edit existing contacts, and remove a contact from the list.

Extension

- Include extra attributes for personal information: email addresses, home addresses, birthdays
- Have a to-do list.
- Add calendar information.
- Enable the application to store images of the people in the address book.
- Enable the user to perform searching through their address book.
- Enable the application to initiate an email to a person in the address book.

2. Test Plan & Result

2.1 JUnit Test

- Test Class: **Contact**
- Test File: **ContactTest.java**
- Methods:
 - testload(): test two branches which the .json file already exists, or create new .json file.
 - testsave(): test if the json object is saved in the right .json file
 - testadd(): test if a single person is added into the .json file correctly
 - testdelete(): test if a record can be deleted by its key(name)
 - testupdateNameList(): test if the right number of recorded can be decoded from the json object
- *Result: all test cases passed*

2.2 Integration Test

Verifies that the components of the system work together correctly.

2.2.1 Human generated test cases:

Manually test if the

- Add, delete, edit modules can work together correctly to manage the contact list. *Result: passed*
- Changes performed on contact list can be viewed in real time. Result: partially passed. *When a contact information is edited, user have to click on the list to get updated view*
- Save a contact list to a .json file and load from .json file. *Result: passed*
- Email can be initialised and sent correctly to contact. *Result: passed*
- Photo of a contact can be uploaded and showed correctly. *Result: passed*

2.2.2 Automate generated test cases:

Test file: **PersonalOrganiserTest.java**

generates 100 random entries of personal information and save it into a .json file. And let the PersonalOrganiser load and test add/ delete/ edit these files. *Result: passed*

2.3 System Test

Checks that the entire system works within the environment that it will be placed in.

Because the Personal Organiser is developed basically in my laptop, the system test will include test if the system can run and perform successfully in the lab computers: Eclipse Luna Release(4.0.0) Ubuntu 14.04 LTS. *Result: passed*