Gumtree Adressbook – Development Guide

Introduction

The purpose of this application is to read structured data in provided AddressBook file and anwser following questions:

- 1. How many males are in the address book?
- 2. Who is the oldest person in the address book?
- 3. How many days older is Bill than Paul?

Structure

- build.gradle gradle configuration for building application
- src all source code
- doc all available documentations
- data structured (real and test) data read by application

Preparation

To build application gradle must be present beforehand. To build source type in command line:

>gradle build

Usage

To launch application use following command and follow instructions on screen:

>gradle run

Testing

To run available tests type in command line:

>gradle test

There are 2 types of testing classes:

- access for reading data from data files
- controller for anwsering required questions

Tests report can be found in directory build/reports/tests/index.html

Configuration

All configuration files are located in src/main/resources and src/test/resources.

- access.properties defines mapping between entity name and file name
- config.properties specifies date format and path to data files
- strings.properties stored text shown to user that could be localized
- log4j2.xml default configuration file for log4j 2 library

Libraries

Besides Gradle for dependency management and Java pacakges, following external libraries were used:

- Joda-time for parsing, formating and doing date related operations
- Google Guava mainly for operations related matching data in collections
- Log4j 2 provides error logging capability