Rss Reader

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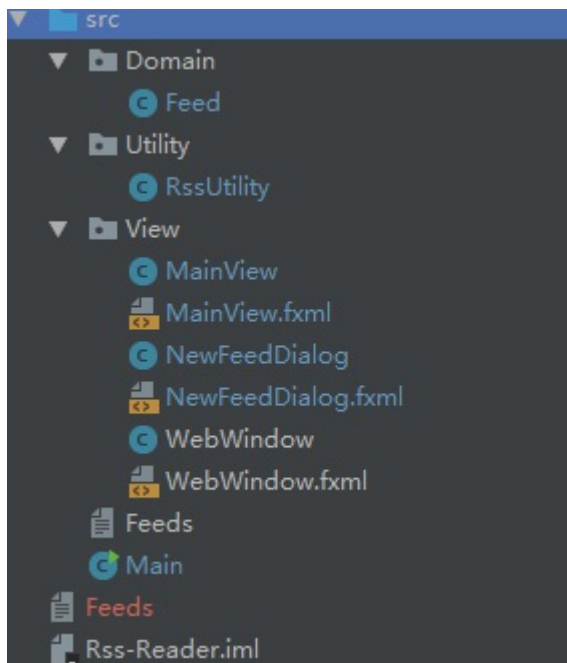@date Nov. 2017

Requirement Analysis

1. GUI
2. Local rss file parsing and display
3. Export rss file
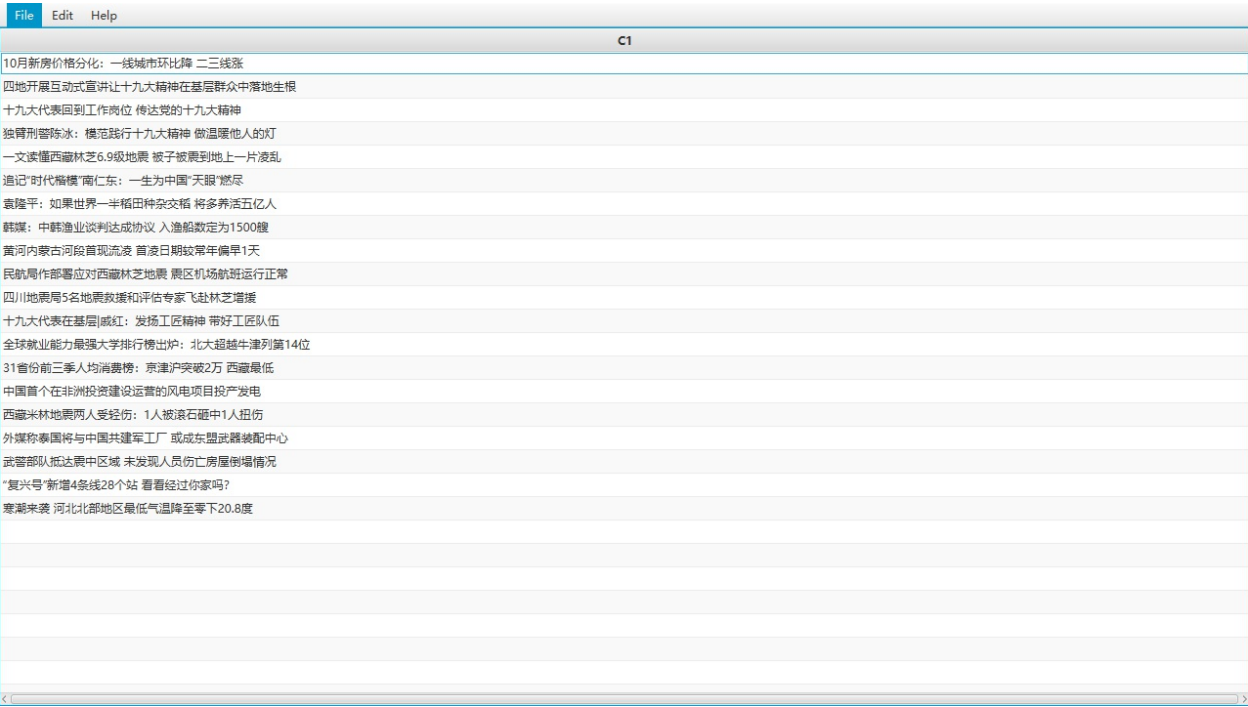4. Deal with the internet content

Class Design

1. Domain.Feed
   - **Encapsulateded business class** used to store the data of feed url and its channel title
2. Utility.RssUtility
   - Utility class with some **static methods** used to deal with the rss feeds
3. View
   - GUI layout and its cotroller which invokes methods declared in *RssUtility*

4. Main
   - The entry point of the app

Developing Plan

1. A simple parser programme

   - input: url
   - output: xml elements

2. Design the GUI

   - channels->items->description->webview

3. Show a single rss feed and its items in the GUI

File	Edit	Help

C1
10月新房价格分化：一线城市环比降 二三线涨
四地开展互动式宣讲让十九大精神在基层群众中落地生根
十九大代表回到工作岗位 传达党的十九大精神
独臂刑警陈冰：模范践行十九大精神 做温暖他人的灯
一文读懂西藏林芝6.9级地震 被子被震到地上一片凌乱
追记"时代楷模"南仁东：一生为中国"天眼"燃尽
袁隆平：如果世界一半稻田种杂交稻 将多养活五亿人
韩媒：中韩渔业谈判达成协议 入渔船数定为1500艘
黄河内蒙古河段首现流凌 首凌日期较常年偏早1天
民航局作部署应对西藏林芝地震 震区机场航班运行正常
四川地震局5名地震救援和评估专家飞赴林芝增援
十九大代表在基层|咸红：发扬工匠精神 带好工匠队伍
全球就业能力最强大学排行榜出炉：北大超越牛津列第14位
31省份前三季人均消费榜：京津沪突破2万 西藏最低
中国首个在非洲投资建设运营的风电项目投产发电
西藏米林地震两人受轻伤：1人被滚石砸中1人扭伤
外媒称泰国将与中国共建军工厂 或成东盟武器装配中心
武警部队抵达震中区域 未发现人员伤亡房屋倒塌情况
"复兴号"新增4条线28个站 看看经过你家吗？
寒潮来袭 河北北部地区最低气温降至零下20.8度

4. Enhance the GUI to show the verbose information of the item

5. Open the item link in a webview in a new

6. Deal with multiple feeds

    i. add internet content

    ii. record feeds locally

    iii. export xml to disk

    iv. import xml from disk

7. (Duplicated) record whether the item is read

8. (Duplicated) subsribe the channel and notify w hen a new item is published

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Acceptance Report

- Most functions are w ell-enough implemented.
  Maybe there are limited bugs existing. But it w ill not bother the usage.

Usage Manual

- It's a really simple Application. Just try the menu items.

Third Party Libraries

JDOM

Reference

RSS 2.0 Specification
studytrails - Java XML – Example JDOM2 Usage
code.makery - JavaFX 8 Tutorial