

Elaboration Iteration-1 Report

Chandni Desai, Deepti Bhatia, Nehaben Kapadiya

July 16, 2020

1 Introduction

Elaboration Iteration 1 include development cycle of open data project using Road Maintenance data. During this phase, we are developing working skeleton of system which is called proof of concept. Our goal for this phase is to write high quality working program which meets several functionality of project and UML design will show feasibility of project technically.

Based on plan provided for inception phase, we provided requirement before and based on requirement we design a piece of code which will include CSV data file process and provide report based on user's search provided among specific options

2 Phase Plan

The plan for Elaboration Iteration 1 is to create a functionality for the user to use the open data set from City of Windsor's web portal as per requirement in a CSV format. Then he can use the data as per his requirements. For example, the prototype created by us uses road maintenance data from City of Windsor's website. The user then has an option to select if he wants to understand how the road maintenance request was received from the city resident. There are 3 options-Phone, Web Intake E-mail. The user now has an option to get numbers for how many requests were received in total, out of which how many were web, phone or e-mail request.

In this iteration, we were able to make use of the static data which first needs to be downloaded from city's website. In the next elaboration iteration 2, we plan to work on making this data dynamic which means, that the data will not be downloaded before using it in the source code.

3 Team Collaboration :

1. Code Repository

<https://github.com/UniversityNDC/Project3220>

- Create repository for 3 java files, OpenDataCSVReader.java, Tester.java OpenDataCSVReaderTest.java as well as also add CSV files and UML design
- It has all methods to read CSV data files and provide data according to choices such as well as also has method to read data by cell.
- Tester class includes instances of OpenDataCSVReader as well as main method to test methods of OpenDataCSVReader class
- Repository also includes UML Class diagram to provide brief idea regarding the design of code.

2. Version Control

<https://github.com/UniversityNDC/Project3220/commits/master>

- version control allow all team member to keep track of work and help you explore each and every changes made by team members
- In our project we have master branch created with one sub branch
- all team member can change file and push them on github
- open and merge pull request

3. Bug Reporting Tool

<https://github.com/UniversityNDC/Project3220/issues>

We have used GitHub's Bug tracking Reporting tool. Here, we have been able to create new issues label them as bugs, hence giving them highest priority for completion. Few bugs were listed are now closed worked upon.

4. Project Management/Task Tracking for the Team

<https://github.com/UniversityNDC/Project3220/projects>

We have created Open Data Project which has a kanban with 3 task columns to enable efficient task assignment tracking for the team and provides a glimpse of progress of the project. Following are the columns of the kanban:

1. In progress Tasks
2. Done Tasks
 - create program to process CSV file including read and print data
 - create methods for read cell from file and provide output according to user requirements
 - Unit Testing
 - UML Diagram creation
 - Project creation on GitHub
 - link program with GitHub
 - Summary report creation
 - Documentation
3. Elaboration Iteration 2 To Do List
 - Create chart using JavaScript
 - Update data dynamically
 - Use API to update data

5. Testing Strategy

<https://github.com/UniversityNDC/Project3220/blob/master/OpenDataCSVReaderTest.java>

J Unit Testing has been used for testing of this program on Eclipse IDE. The class OpenDataCSVReader has 4 methods which have been tested unit wise using 2 different CSV files as input files. All the unit tests are clear for the code. These can be viewed in J Unit test class OpenDataCSVReaderTest.java.

6. Documentation repository

<https://github.com/UniversityNDC/Project3220/tree/master/docs>

GitHub provides a platform for document repository to manage documents digitally and in a secure way . We have created a folder named "docs" to store all reports and files related to the project.

4 UML Diagram

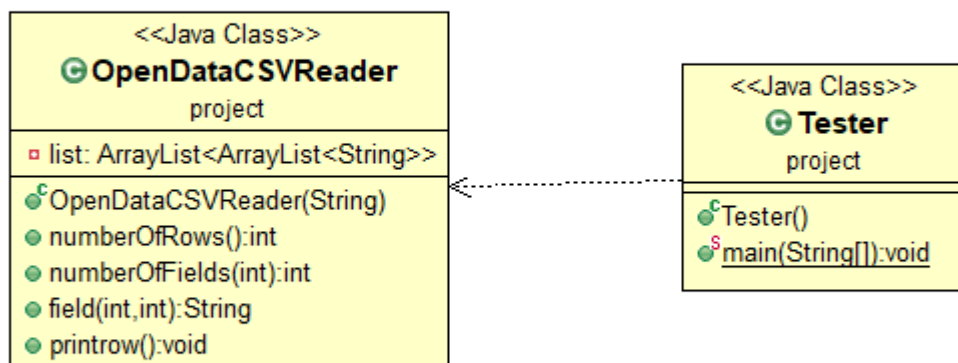


Figure 1: Class Diagram-Elaboration Iteration 1