# YQGDataPortal

Presented by Nandini Patel and Het Patel An Agile Approach to Software Development

### Table of Contents

Project objective

Understanding the problem

Inception

Elaboration I

Elaboration II

YQGDataPortal:

Approach

Sequence Diagram

Live Demonstration

Project timeline

# Project objective

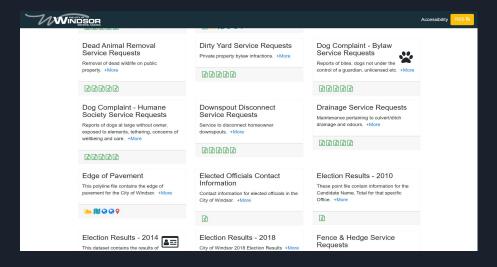
- Assist City of Windsor to develop the next open data portal
- Data accessible dynamically
- Interactive implementation of datasets

### Understanding the problem

Ol Users must download datasets to view it >Inconvenient

O2 Visuals are not provided for most datasets >Non-user friendly

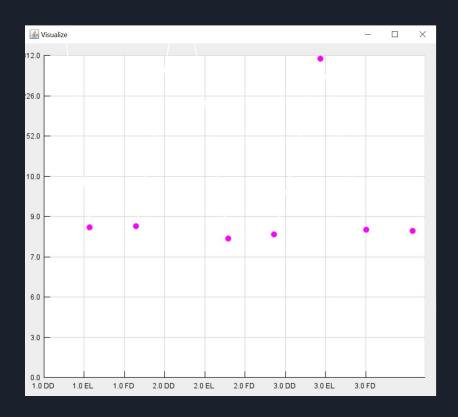
O3 Not categorized >Unorganized



# Inception

Use Case (#1) Name	Filtering search by themes
Scope	Open Data Management Tool
Primary Actor	User
Interests	The search engine will provide the user to search datasets according to their choice
Use case (#2) name	Visualize a dataset
Scope	Open Data Management Tool
Primary actor	User
Interests	The graphs or maps of the dataset will be displayed for each data
Use Case (#3) Name	Accessing APIs of a dataset
Scope	Open Data Management Tool
Primary actor	Developer
Interests	The API will get the request from the developer for the data and the API will send a response data in return

### Elaboration I



Designed a Java Swing application which takes a dataset and creates a graph

#### **Problems:**

- Only works for two fields
- Bad design
- Not suitable for every dataset

### Elaboration II

• Supports loose coupling

The application is compatible on a larger scale (more datasets)

MVC model

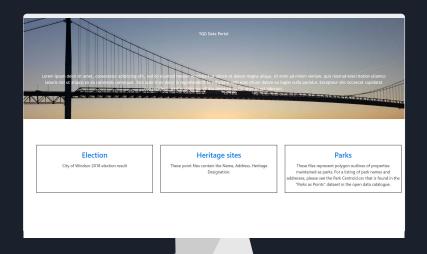
Used as an architectural design pattern

Analyse

Checked whether the requirements are met

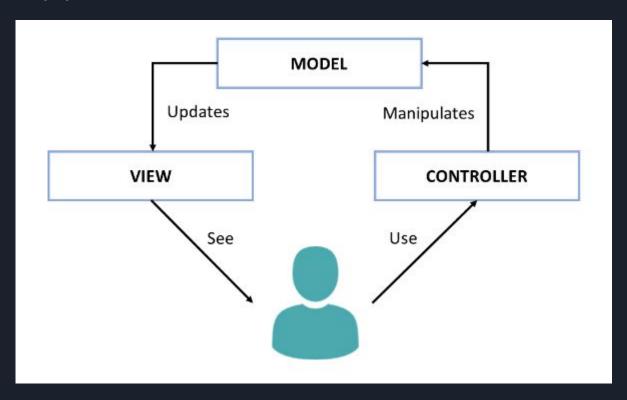
### YQGDataPortal

A new approach to open data

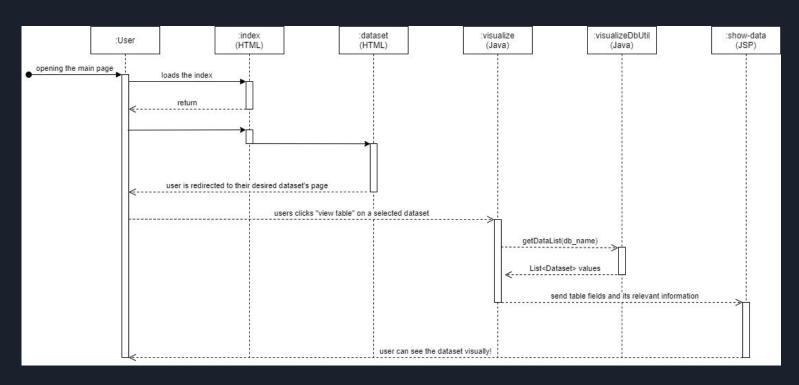


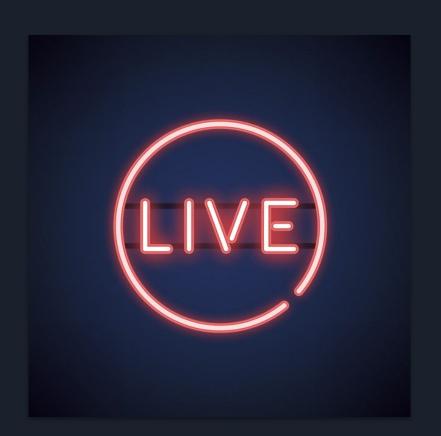


# Approach

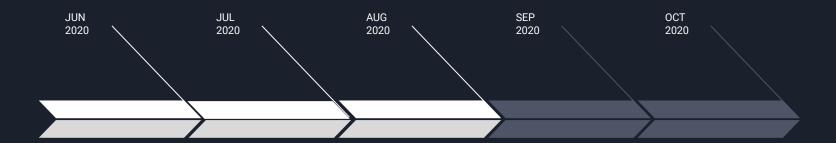


# Sequence Diagram





### Project timeline



#### **Inception Phase**

Identified vision, business case, use cases, artifacts, major risks

#### Elaboration I

Created Swing (Java) application to create a graph for a given dataset

#### Elaboration II

An MVC modelled website that displays the given dataset from a database

#### Elaboration III

Datasets are filtered into different categories and refactoring will be done

#### Construction

Implementation of easier elements and preparing for deployment

# Thank you!

#### Contact us for feedback

- Het Patel: patel1ik@uwindsor.ca
- Nandini Patel: <u>patel23l@uwindsor.ca</u>