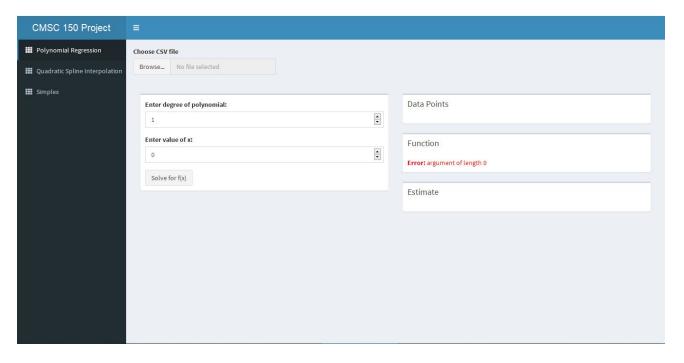
# **CMSC 150 Project Manual**

Stephanie Legaspi 2015-00649 CMSC 150 B-5L

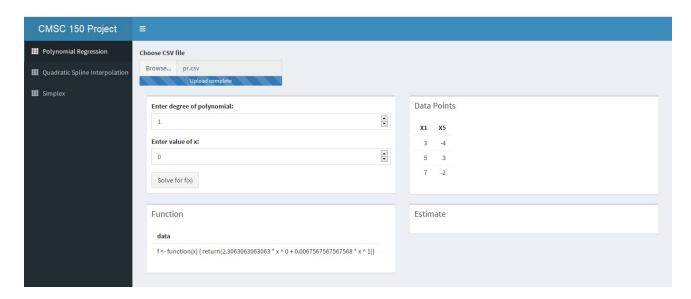
## 1. Polynomial Regression

#### **Initial User Interface**



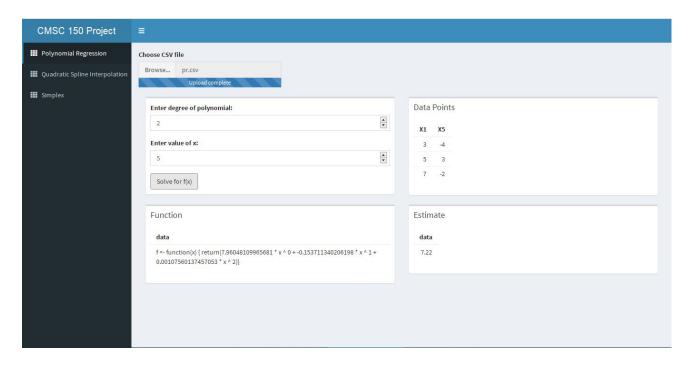
#### Upload a CSV file

You can upload a CSV file by clicking the "Browse" button and choosing a file with CSV format.



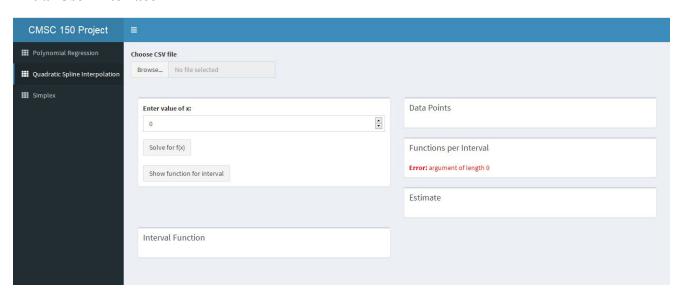
## Compute for f(x)

In order to compute for f(x), you must first enter a value of x on the "Enter value of x: " field and click the "Solve for f(x)" button. You can also modify the degree of the polynomial by entering a degree on The field "Enter degree of polynomial".



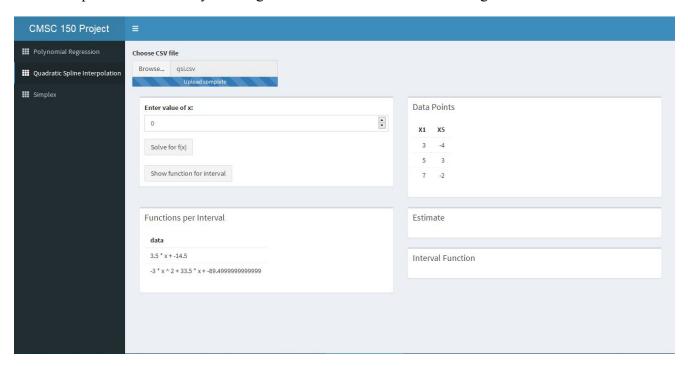
## 2. Quadratic Spline Interpolation

#### **Initial User Interface**



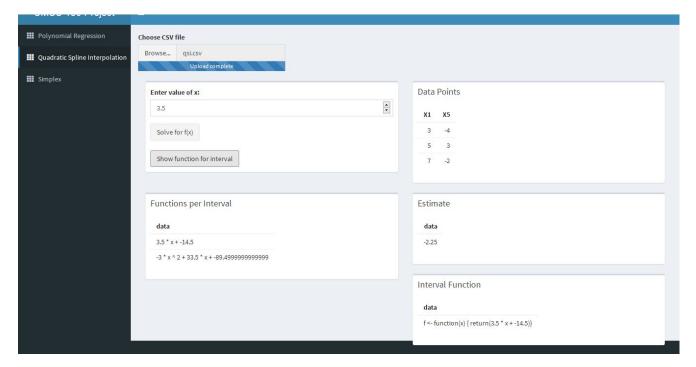
## Upload a CSV file

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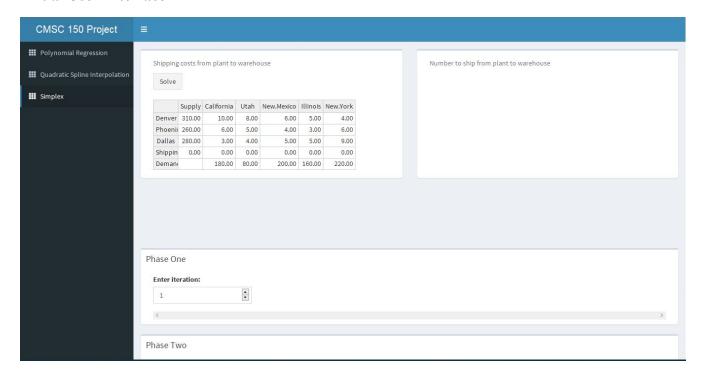
#### Show f(x) for the interval and Compute for f(x)

Enter a value of x on the "Enter value of x:" field. Click the "Solve for f(x)" to compute for f(x) and click the "Show function for interval" button to show f(x) for the given interval.



## 3. Simplex Method (Minimization)

#### **Initial User Interface**



#### **Perform Simplex Method**

In order to perform simplex method on the given input on the table, click the "Solve" button and then the resulting values will appear on the table on the right.



#### **Show Tableau for a Specific Iteration**

The simplex method for minimization has two phases. You can view specific iteration per phase by entering a value on the "Enter Iteration" field.

