**Code Release Iteration 4**

**Summary**

This code release has no added code or functionality but has focused on finishing up test documentation. All the proposed requirements have been met up to this point.

**Requirements:**

Below is a table showing all user stories that have been completed up to date. Each story is followed by a detailed list of tasks that were implemented to complete the story, as well as completion time estimates and actual values. This table also shows the completion percentage of each user story. This table was completed in code iteration 2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| User Story | Development Tasks | Estimate Time to Complete | Actual time to Complete | Percentage Complete |
| As a user I want to see existing comments when the application is run so that I can see the descriptive text in my hosts file. | - Develop methods to get all file lines.  - Parse comments per the defined line structure rules and place in model.  -Create a template in the view’s grid to display comment blocks as text boxes with a label.  -Implement IValueConverter interface to tell the view to use the comment template when IsCommentBlock boolean property is true. | 5 | 6 | 100% |
| As a user I want to see existing IP routing configurations as entries when the application is run so that I can see the current data in my hosts file. | -Parse IP entries per the defined structure rules and place in model.  -Create a template in the view’s grid to display each property as a text box, each with its own label.  -Implement IValueConverter interface to tell the view to use the IpEntry template when IsCommentBlock boolean property is false. | 5 | 6 | 100% |
| As a user I want an IP routing entry to show if it is active so that I know if the entry is in use. | -Add check box in IpEntry template with its checked value set to the active Boolean field.  -Check if an IpEntry is commented out or not to assign the entries active status | 1 | 1 | 100% |
| As a user I want an IP routing entry to show the IP address it is routing to so that I know where I am routing my traffic. | Add text box and label bound to the entries IpAddress value. | 1 | .5 | 100% |
| As a user I want an IP routing entry to show the name of the location it is routing to so that I know what name the IP address forwards to. | Add text box and label bound to the entries RoutesTo value. | 1 | .5 | 100% |
| As a user I want an IP routing entry to show the name that is being overwritten so that I know what routing location is being changed. | Add text box and label bound to the entries DNS value. | 1 | .5 | 100% |
| As a user I want an IP routing entry to show comments so I can see what comments are written to describe the entry. | Add text box and label bound to the entries comment value. | 1 | .5 | 100% |
| As a user I want the ability to create a comment so that I can organize my ideas outside of an entry. | -Add a button bound to an command in the view model.  -In the view model, create a new Comment entry and add it to the observable collection.  -Call OnPropertyChanged to show the new entry in the view. | 2 | 3 | 100% |
| As a user I want the ability to create a new entry so that I can apply that entry to my system. | -Add a button bound to a command in the view model.  -In the view model, create a new IP entry and add it to the observable collection.  -Call OnPropertyChanged to show the new entry in the view. | 2 | 3 | 100% |
| As a user I want the ability to save the application so that I can save my current work. | -Add save button to the view and bind it to a command in the view model.  -In the view model validate the data by implementing INotifyDataErrorInfo.  -Only save if there are no errors.  -Pass the collection of entries to data access layer.  -Iterate through the list of entries and write each entry to a test file using the structure rule defined.  -If successful replace with real file | 8 | 10 | 100% |
| As a system I want to show the user an error message if saving their application wasn't successful so that they can handle the error. | -Return an error in the data access layer method if a catch block is entered.  -First validate the models before saving the application and return an error if it is not valid.  -Implement INotifyDataErrorInfo to show red outline of invalid entry textboxes.  -Use a message box with custom error messages. | 1 | 3 | 100% |
| As a user I want the ability to change an entry's active status to active so that I can reuse an existing entry without having to create a new one. | -Bind the checked property to the models active field. | 1 | .5 | 100% |
| As a user I want the ability to change an entry's active status to inactive so that it won’t be applied to my system without having to delete it. | -Bind the checked property to the models active field. | 1 | 0 | 100% |
| As a user I want the ability to delete entries so that I can get rid of entries that I no longer need. | -Bind a delete button to a command in the view model  -Add the button to the last column of each grid entry  -In the remove method of the view model delete the entry from the observable collection. The item is passed in as a parameter from the view.  -Call OnPropertyChanged to update the view. | 1 | 1.5 | 100% |
| As a user I want the ability to delete comments so that I can get rid of comments I no longer need. | -Bind a delete button to a command in the view model  -Add the button to the last column of each grid entry  -In the remove method of the view model delete the entry from the observable collection. The item is passed in as a parameter from the view.  -Call OnPropertyChanged to update the view. | 1 | 1.5 | 100% |
| As a system I want to get an IP for the user if they enter a routing location so that the user doesn’t have to leave the application and fetch that data themselves. | -Add a “lost focus’ event handler for the “RoutesTo” text box.  -Create the method in the MainWindow.cs to handle that event.  -Create helper methods to search for the Ip address.  -Return either an error or valid address.  -Call OnPropertyChanged to update the view. | 2 | 5 | 100% |
| As a user I want to edit existing entries so that I can correct mistakes. | -Bind each entry field to an editable text box.  -Always keep the text box editable. | 2 | .5 | 100% |
| As a user I want to edit existing comments so that I can correct mistakes. | -Bind the text box to the comment field.  -Always keep the text box editable. | 2 | .5 | 100% |
| As a system I want to return an IP when a user enters a valid routing location within 5 seconds so that the user doesn’t waste time waiting. | -Make the lookup method async and return a Task<string>.  -Call the task and set a timeout function on it. | 2 | 4 | 100% |
| As a system I want to return an error message when a user enters an invalid routing location within 5 seconds so that the user doesn’t waste time waiting. | -Make the function an asynchronous task.  -Return an error message if it returns null or times out. | 2 | 2 | 100% |

**Reports**

Requirements Delivered: 0%

Requirements Delivered to Date: 100%

Requirements Taken Out of Scope: 0%

**URL’s**

GIT URL (Code): <https://github.com/Gage-Price-2/HostsPro.git>

Public Portfolio URL : <https://github.com/Gage-Price-2/HostProPortfolio.git>

Screencast URL: <https://go.screenpal.com/watch/cTeDFxnicmP>