[Functional Overview 2](#_Toc481139869)

[Technical Overview 2](#_Toc481139870)

[Google Sheet Account Details 2](#_Toc481139871)

[ftp Details 2](#_Toc481139872)

[Appsetting details 3](#_Toc481139873)

[Code walk through 3](#_Toc481139874)

[Utility Classes 3](#_Toc481139875)

[Routes 3](#_Toc481139876)

[Controllers 3](#_Toc481139877)

[Application Access gateway 3](#_Toc481139878)

[Spreadsheet Credentials 3](#_Toc481139879)

[Comments 4](#_Toc481139880)

## Functional Overview

We need to store the feedback from the Shift Managers. The questions for the survey should be picked up dynamically from the Google spreadsheet. The sample of the same is attached for reference. All Scores given by the Shift Managers will be placed in the Google spreadsheet along with the total score based on weightage and response from the Shift Managers. A glimpse of the spreadsheet should be enough to decipher details of the data in the sheet. Appropriate comments have been injected in the sheet where ever necessary.

* The area(cells) marked in Red should be static and should not be edited.
* The new questions should be inserted before the score column, shifting the column to the right.
* All “**Answer Range”** must be in numeric exception being columns “**C2”** and “**D2**”. The lower range and the higher range must be separated by a “**-**“.
* The “**score weightage”** can be any number starting from 1.
* **“Mandatory”** fields can be marked with “**\***”.
* **“Support Summary”** row can be marked by a “**\***” to force the user to enter comments, if he makes a selection for the item and the selection is greater than 0.
* “**Summary Question**” is the question text that appears in the summary table after submission. Mostly to save space so that user is able to take a screenshot for future reference.
* After the Summary Questions begins the data submitted by the user. The first column being the date time of the submission.
* Towards the right is the Score Column that stores the total score for the record submitted.
* Soon after the Score column is the concatenated comments given by the user. They are separated by “!~”
* The last column is the formula column which is only for manual verification and corrections only. This might need appropriate editing/ correction if the questions are added or deleted.

## Technical Overview

The Application is written in MVC C# using attribute routing. It uses Obscure url tokeep away from bots and unwanted intruders. For the sake of simplicity, it does not use any authentication. Any hit to the application pool the request gets diverted to a known url in the appsettings, if it is not among the hardcoded ones. Each of the can be found above the Controllers and Action Methods.

## Google Sheet Account Details

Credentials: macys.prod\Gang@987

Document Name: ShiftPerformance

## ftp Details

url: waws-prod-pn1-001.ftp.azurewebsites.windows.net

User: MACYSShiftPerfApp\perf

Password: Adm!n@123

## Appsetting details

ApplicationName: It is the name given to the application in the Google API.

SpreadSheetId: is the unique Id of the sheet where the I/O would occur.

QuestionSheetName: The name is explainatory.

ResponseSheetName: The name is explainatory.

ResponseSheetRowsCapacity: Current Rows present in the sheet.

SheetColumnsCapacity: Current max columns in the Sheet.

RedirectUrl: the url to redirect to if a request cannot be identified or entertained.

SecretKey

## Code walk through

### Utility Classes

The only Utility Class in the Utils folder is the GoogleAppService Class. It abstracts the inner details of Google API Calls. We can simple create an instance of it to make API calls.

### Routes

Though it is visible in the RouteConfig.cs, there is no default route configured to support obscure urls.

### Controllers

ShiftPerformance: This is where the App’s entry point is and is used to generate the Form dynamically from the Google spreadsheet.

Home : used to show the Summary results and redirects to the ShiftPerformance controller.

### Application Access gateway

Since we are using Obscure url it is worth mentioning the entry point of the app.

“~/3c1LFhG1218YnktzdTc1LFhG12K2eD\_kAvyR8YnWIAzdlE/LFhG11LFhG18YnktzdTc1LFhG12K2eD\_kAvyRWIAzdlEBVZ”

### Spreadsheet Credentials

They are generated through the below url by logging into the account. Just need to follow instructions in the Google Docs.

“https://developers.google.com/sheets/api/quickstart/dotnet”

Everything is encrypted and kept safe in the file. Do not share the generated file. It can be misused. It is currently sitting in the creds folder in the root of the application.

### Comments

Comments have been added to aid understanding wherever appropriate.