YCompany – eClaims

DAR Document



Nagarro Software Pvt. Ltd.

<Author Name>

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# Introduction

DAR document is used to provide a comparision between different tools and libraries which can possibly be used to design solutions for a given problem.

## Objective and scope of document

This document provides a comparision between different technologies, tools or frameworks that were evaluated while designing the solution for eClaims system.This document will only cover the tools that were relevant in the designing and development of this project.

# Requirements at a Glance

YCompany being a key player in its business area has been facing challenges with the manual claims processing. Due to the manual process for claims processing, the customer claim settlement time is large and claims are sent out as cheque. This has resulted in customer dissatisfaction and YCompany loosing customer confidence. Currently claims adjuster must submit manual assessment from field to back office, the back office then validates the assessment against the claims submitted, which is both cost inefficient and time consuming. As the claims data is not collected electronically YCompany has no way of running analytics on the data.

The primary goal of the eClaims portal is to provide a web-based solution which will serve as a single platform for Customers, Surveyor, Adjustor, Case Manager and company’s internal users. Using this application, Customer can register themselves, their policies, service their policies, make Online Payment and can change the billing cycle of the policy. Using the appliction, Surveyor can sbmit their assessment online and Adjustor can view claim, supporting documents and assessment report online. Same system can be used by Case Managers to view the comlete details and make adjustments to the claim.

Using the application, 3rd party service providers like Vehicle Repair Workshop should be able to upload the work order and udate its progress periodically. Customers should get the notifications about the current status of their vehicle. Internal users like Case Managers and Regional Manager should be able to generate reports based on their permissions.

System should enforce all stringent security measures to restrict unauthorized access. And should also provide identity management system through role- based user management.

# Available Web Technologies

## ASP.NET Web Forms

ASP.NET Web Forms is a part of the ASP.NET web application framework and is included with Visual Studio. It provides a simple event driven model for rapid application development. Web forms can be rendered in modern browsers using HTML and related Web-oriented languages.

The ASP.NET Web Forms page framework automatically handles the task of maintaining the state of your page and its controls, and it provides you with explicit ways to maintain the state of application-specific information.

This is the standard UI design and implementation technology for .NET Web applications. An ASP.NET Web Forms application needs only to be installed on the Web server, with no components required on the client desktop.

### Features of ASP.NET Web Forms

* Asp.Net Web Form follow a traditional event driven development model.
* Asp.Net Web Form has Master Pages for consistent look and feels.
* In Asp.Net Web Form, Web Forms(ASPX) i.e. views are tightly coupled to Code behind(ASPX.CS) i.e. logic.
* Asp.Net Web Form has state management (like as view state, session) techniques
* Asp.Net Web Form follows Web Forms Syntax
* Asp.Net Web Form is not Open Source.

### Pricing for ASP.NET Web Forms

ASP.NET Web Forms can be used free of cost, but it is not Open Source.

## ASP.NET MVC

This technology allows you to use ASP.NET to build applications based on the Model-View-Controller (MVC) pattern. The ASP .NET Model-View-Controller (MVC) is an architectural pattern that separates an application into three main logical components: the model, the view, and the controller. ASP.NET MVC supports test-driven development and clear separation of concerns between UI processing and UI rendering. This approach helps to avoid mixing presentation information with logic code.

### Features of ASP.NET MVC

* Asp.Net MVC is a lightweight and follow MVC (Model, View, Controller) pattern-based development model.
* Asp.Net MVC has html helpers.
* Asp.Net MVC has no automatic state management techniques.
* Asp.Net MVC has route-based URLs means URLs are divided into controllers and actions and moreover it is based on controller not on physical file.
* Asp.Net MVC follow customizable syntax (Razor as default)
* In Asp.Net MVC, Views and logic are kept separately.
* Asp.Net MVC has Layouts for consistent look and feels.
* Asp.Net Web Form has User Controls for code re-usability.
* Asp.Net MVC has Partial Views for code re-usability.

### Pricing for ASP.NET MVC

ASP.NET MVC can be used free of cost.

## ASP.NET Core MVC

ASP.NET Core is a new open-source and cross-platform framework software to construct present cloud supported internet linked applications by post freelance projects like web apps, IoT apps, and mobile backends. ASP.NET Core apps can run on.NET Core or on the full.NET Framework. It was designed to give a target based development framework for apps that are installed to the cloud or run on-premises. It has modular components with minimal overhead, so you keep the elasticity whilst building your solutions. You can enlarge and activate your ASP.NET Core apps cross-platform on Windows, Mac and Linux ASP.NET Core which is an open source at GitHub.3.  ASP.NET Core has a number of constructional changes that will outcome in a much smaller and effective framework. ASP.NET Core is no longer grounded like System.Web.dll. It is built on a set of granular and well built NuGet packages. This lets you target your app to comprise just the NuGet packages you need. The uses of a lighter app surface area comprise solid security, condensed servicing, better presentation, and low costs in a customer model.

### Features of ASP.NET MVC

* Cross-platform & container support
* Built-in support for dependency injection
* High performance
* Fully cloud ready setup for publishing
* Unified MVC & Web API frameworks

### Pricing for ASP.NET Core MVC

### ASP.NET Core MVC can be used free of cost and is open source.

# Comparison Analysis of Web Technologies

The idea of comparison matrix is to evalaute the selected web technology on the basis of different features it provides. The quantitative assessment on the scale of 0 (not provided) to 5 (complies 100%) for existence of mentioned features and functionalities can be found below:

## Point Matrix for Web Technologies

|  |  |
| --- | --- |
| Feature | Points |
| Free of cost | +1 |
| Open source | +2 |
| Cross-platform | +2 |
| Built-in support for dependency injection | +1 |
| Could-ready setup | +1 |
| MVC pattern-based development | +1 |
|  |  |

## Comparison of Web Technologies

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | ASP.NET Web Forms | ASP.NET MVC | ASP.NET Core MVC |
| Free of cost | **** | **** | **** |
| Open source | **** | **** | **** |
| Cross platform | **** | **** | **** |
| Built-in support for dependency injection | **** | **** | **** |
| Cloud-ready setup | **** | **** | **** |
| MVC pattern-based development | **** | **** | **** |
|  | **** | **** | **** |

# Recommendation

<Your recommendation>

# Assumptions

<Assumption made during this analysis>



# Risks

<Detail out any risks involved>

# Appendix

## References

1. https://msdn.microsoft.com/en-in/library/ee658088.aspx
2. https://www.c-sharpcorner.com/interview-question/difference-between-asp-net-webform-and-asp-net-mvc