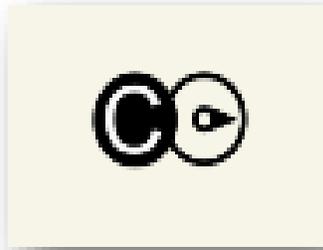


CASE STUDY: THE CHANGE COMPASS



Technical Specifications

Programming: C#, Angular 6

Reporting Tool: Power BI client service

Database: MS SQL Server

Database Connectivity: Established through Web API

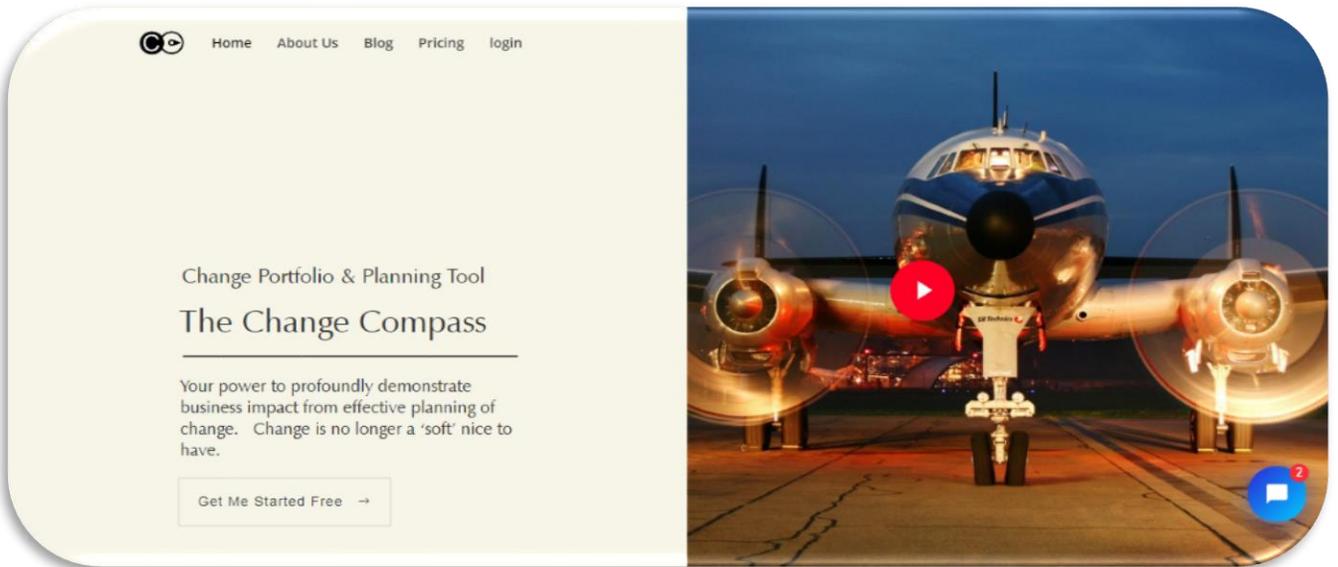
Design: HTML5, Bootstrap3, CSS3, jQuery

Hosting: AWS cloud environment

Background:

The Change Compass was built after analyzing how business stakeholders have matured, they manage change through understanding the data and tweaking their approaches over time. So, this application provides services to different organizations undergoing significant change.

This SaaS application facilitates a way of capturing and visualizing change impact to make better decisions and also improves the experience of employees as well as customers during change.

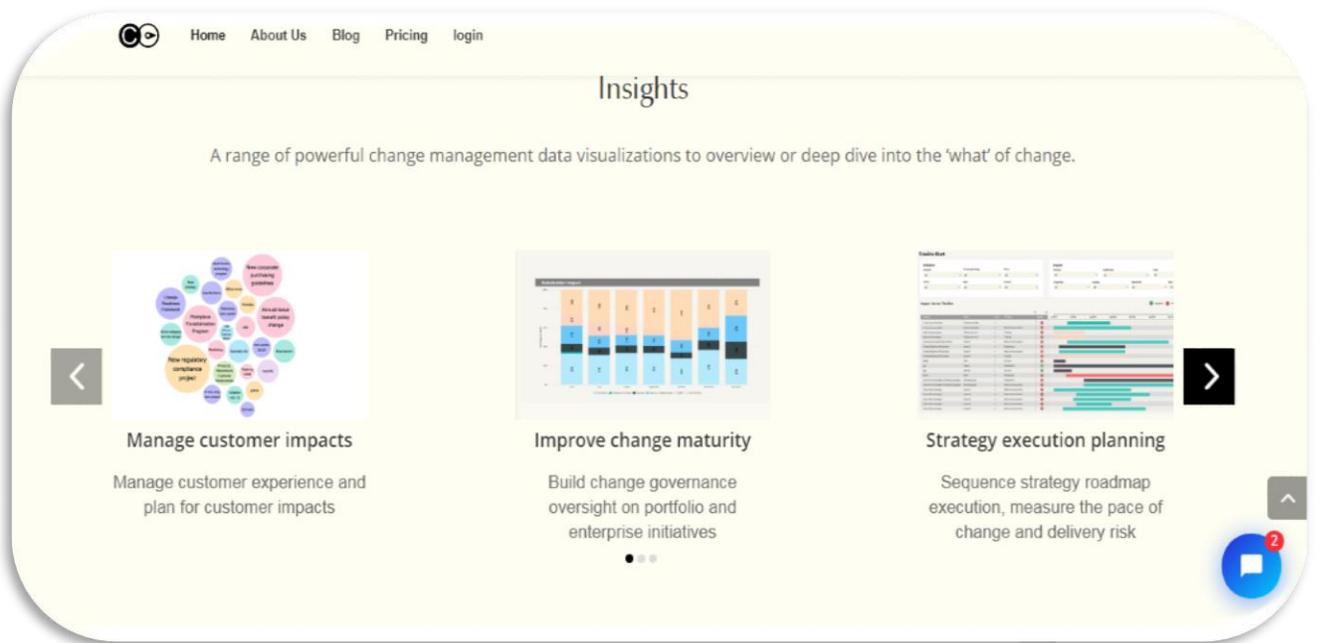


The Problem and Challenges:

The Client came to Ariel Software Solutions with a project on which there were a number of developers were already working and were unable to deliver the desired results.

The client wanted to make his Power BI reports dynamic which was actually a challenging tasks for our team because Power BI doesn't support the "Export" functionality on the embedded reports:

Though Power BI supports the "Export" option but this feature is not directly supported in the embedded reports due to iFrame's CORS policy.



Solution:

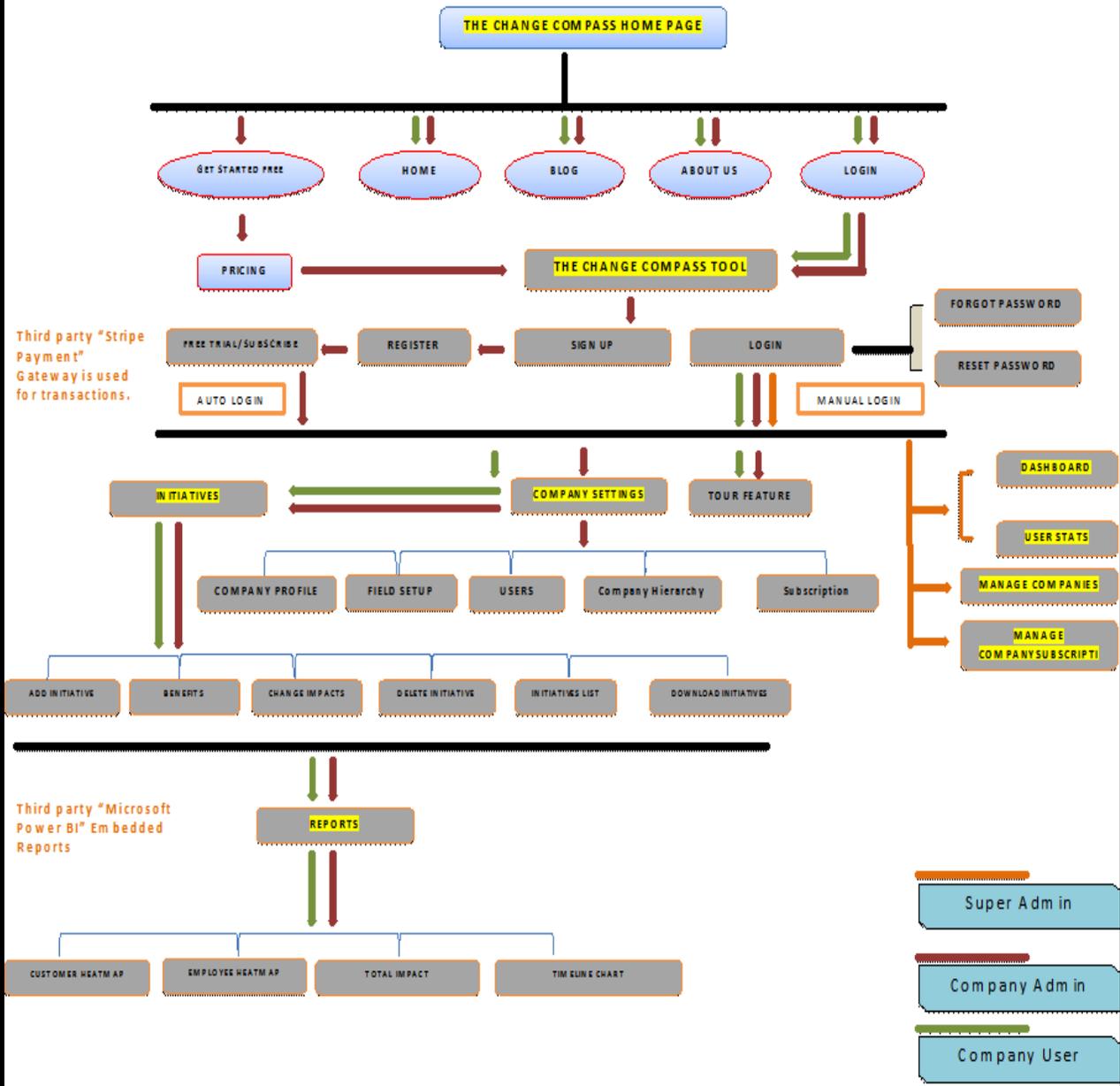
- To achieve this, we did customization in Angular 6 and Web API layer.
- On web API side, we created custom functions to do Power BI one step authentication and getting the auth tokens and the other required data to get the currently logged in user authorized.
- On front-end side, we have consumed the Power BI's service to take the screenshot of the entire report page and then generating the PDF file for the same.

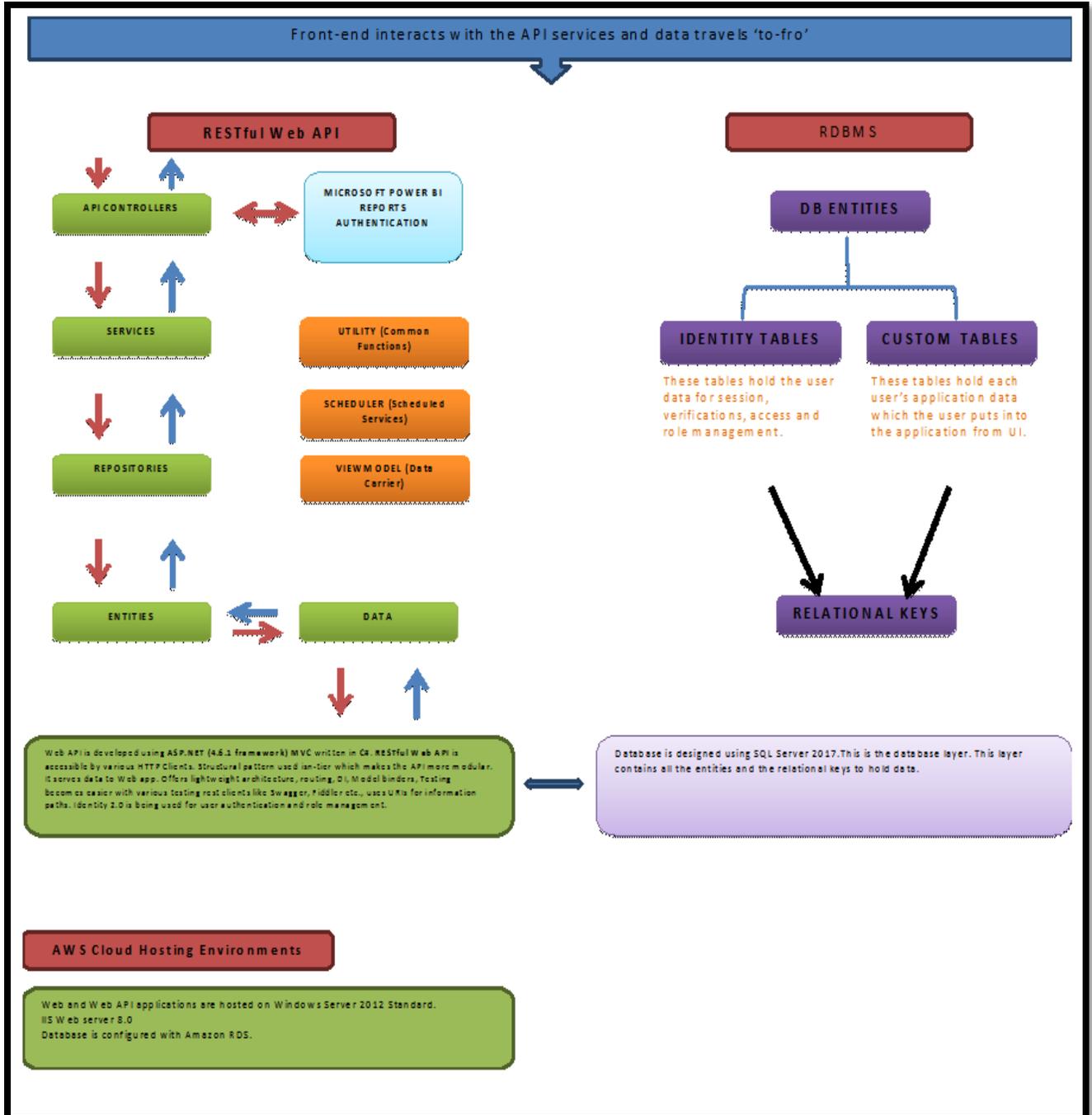
Functional & Technical Infrastructure Diagram

The Change Compass (2.0)

Web UI

UI (web tool) is written in ECM Ascript5 and developed in Angular7.2.11, which is robust, far superior in terms of performance and provides the outstanding user interface. Supports dynamic loading-unloading of DOM, Routing, DI, Testing frameworks, more Modular in terms of architecture and dependencies between each component. Third party libraries (Material, Bootstrap) has been consumed to make elements and other functionalities.





Results:

The final end product was a SAAS application that was delivered within aggressive deadline and specific budget. It help users to make better decisions along with improving the overall experience of employees as well as customers during the change.