

Front End Modernization - Silverlight to Angular Migration

Objective

The travel and hospitality industry is undergoing a major digital transformation by moving away from proprietary web plug-in based delivery mechanisms (such as Silverlight), and replace them with unified open source HTML5/JavaScript based frameworks, as Microsoft has ended its Silverlight development.

Our Europe based customer is a travel aggregator, helping customers simplify their hotel bookings, and their current hotel booking system was developed using Silverlight. Our customer needed to migrate from Silverlight to the latest front-end technology to achieve scalability, improve user experience with faster application performance in a secure environment. After evaluating several different frameworks, Angular was identified to be the best fit for migrating from Silverlight blending with MVVM architecture.

Challenges

- Progressive migration of containers from Silverlight to Angular
- UI testing & tracking TFS Bugs
- Verify API response with the defined structure
- Testing for Internationalization of 5 languages
- Lack of Silverlight technology support

Approach

Rishabh Software's team implemented Agile project management practices to migrate the existing application from Silverlight to Angular open source framework. Modernizing an application can present a different set of challenges depending on the general quality, test coverage, and architecture of the legacy code base.

A few factors can significantly change the scope of modernization depending on the target platform. Rishabh Software's project team consisted of 5 members (3 Developers + 1 UI + 1 QA + Project Manager) to understand the existing XAML architecture, RESTful API contracts and developing custom templates, containers & reusable components using Angular technology.

The team studied the current MVVM patterns, checked the modularity, developed reusable components followed by legacy application testing and reviewing the service code quality, and implement various features delivered by Angular / TypeScript like strict typing, model-driven API calls, lazy loading, and more.

Business Benefits

- Simplified booking process
- Better user experience with a minimalistic navigation structure
- Real-time data availability of currency & room inventory
- Enhanced modularity, security & scalability
- Multi-language support (Internationalization)

Industry Segment

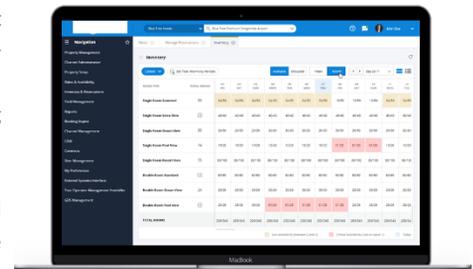
Travel & Hospitality

Customer Profile

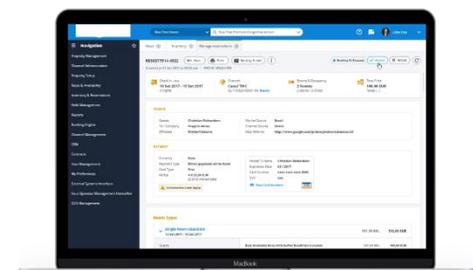
Europe-based travel & hospitality provider

Technology and Tools

- Angular
- KendoUI
- HTML
- SCSS
- Katalon Studio
- Selenium



Room Inventory Dashboard



Reservation Booking Engine

About Rishabh Software

Rishabh Software is a CMMI 3, ISO 9001, ISO 27001, Microsoft Gold Partner & Oracle Gold Partner providing application development services & solutions to mid-sized enterprises globally through our offices in the US, UK and India. We leverage the latest technology stacks in Cloud, Mobile, Business Intelligence and other Enterprise technologies helping clients to get the best value of their IT budget. With our team of 250+ application developers, we have implemented 1000+ successful projects across 24 countries. We work on .NET, Java, PHP, iOS, Android, Oracle, IBM and Open Source technologies.



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