

Webjet Group

Case Study

Complex Responsive widgets for
Webjet products

Nearshore-Onsite-Offshore delivery model



webjet.com.au



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About us

Zenith-ComC is an integral part of ComCrowd Global. We partner with reputed Travel & leisure companies to create Custom technologies and outsource their Business Processes. Our nearshore & offshore locations allow us to be cost efficient and deliver relevant solutions to Airlines, Hotels, OTAs, Tour operators, Car rentals, Food & restaurants, cruises and Leisure travel operators.

As a Travel technology solution provider, we offer a range of services that include Consulting & Product development, Custom Application development, Business Process Outsourcing, Back office support, Maintenance and Integration services. Zenith has worked with several leaders in Travel & Hospitality industry in deploying and supporting B2B and B2C Online Hotel Reservation Systems, E-business solutions, Internet booking engine and Online service adapters that interface with external operators and providers. We have been in the forefront assisting Accommodation service providers in GDS & operator integration and building enterprise travel portals. Zenith is one of the few companies having demonstrated knowledge and experience on all new standards being adopted by the industry like OTA, Travel 2.0 compliance, GDS and non-GDS integrations and other evolving technologies.



Travel Segment	IT Services	
<ul style="list-style-type: none"> - Online Travel - Hotel - Car Rental - Tour Operators - Cruise - Consolidators - Leisure/Corporate - Travel Houses 	<ul style="list-style-type: none"> - Travel Portal Development - Point of Sale (Standalone, online, integrated) - Online reservation system - Search engine optimization - Integration with GDS API's - Mid office functionality - Back office application 	<ul style="list-style-type: none"> - Bespoke development - Migration / Reengineering - Web enabling of legacy app - Maintenance / Enhancements - Support services - Integration support - Offshore Development Center

Overview

Webjet Group is a leading Online Travel company that provides B2B and B2C services to its customers. Its online travel tools and technologies have the ability to **compare, combine and book the best domestic/international flight deals, hotel accommodations, holiday package deals, travel insurance and Car hire services.**

We have executed several projects for the Webjet Group and they include a diverse set of activities. Some key ones include

1. IT Consulting- Enterprise Travel Management System
2. Expedia Integration Service
3. Sunhotels Multi supplier API, XML Integration projects
4. Complex Responsive Widgets development for flights and Hotels

Write to us on management@comcrowd.com and we'll be happy to share more case studies.



Scope of Work- Complex Responsive Widgets

Webjet intended to custom create responsive, light weight widgets for hotels and flights that can be seamlessly plugged into various brands of B2C sites owned by Webjet.

Webjet Brands



JacTravel

WebBeds
Europe

WebBeds
Asia

WebBeds
AMEA

 **sunhotels.**

lots of **hotels** 



totalstay

FIT RUUMS
Always stronger together

Project- Complex Responsive Widget development

The project was to create responsive, light weight widgets for hotels and flights that can be seamlessly plugged into various brands of B2C sites owned by Webjet.

Their existing widgets were built in an Iframe and our team was tasked to build enhanced functionality widgets. The new function was not just to accommodate existing old features but have the capability to accommodate new features that were to be built during development. These features were prioritized and specified by Webjet team in advance.

The project scope included:

- Creation of Responsive Widget for Hotels & Flights
- Widget that can be seamlessly integrated with any of Webjet's websites with minimal change
- Widget had to be independent of the JS and CSS of the website it is plugged in.
- Widget using jQuery and Bootstrap for responsiveness; the version of jQuery and Bootstrap files using the widgets should not conflict with the versions used by the client website. These needed to be tested in all possible scenarios
- Widget should not alter the look and feel of their client websites.
- Widget should work in two different colour schemes and specified colour codes given by Webjet.
- Widget should make use of the API's built by Webjet for auto complete and for flight class recommendation.
- The URLs and any other parameters used by the widget should be configurable.

Our approach and key aspects

Our team conducted an Technical indept analysis with Webjet to understand technical intricacies of the widget implementation. During discussions, we demonstrated to Webjet similar functionalities that we had implemented for other clients. Our demos included past experience & code analysis of various widget options that could be plugged into any website with minimal code insertion.

Our team along with Webjet technical overcame many challenges including:

- Cross domain issue: This issue was addressed by not using any Ajax calls in the widget.
- JavaScript and CSS conflicts: This issue was addressed by creating a different namespace for the JS and CSS files used by the widget.

Both our teams tested the POC's by consuming in various websites and ensured it worked in all possible scenarios.

Implementation

The widgets implementations were:

- Built in line with the POC and testing scenarios conducted.
- The look & feel of the widget were also based on the mockup screens initially planned by the Webjet team.
- The widgets acted as an independent solution, consumed with minimal code insertion.
- The widget made use of Webjet's existing functionalities for city auto complete, flight class selection and Search results.
- The widget functionalities were implemented in a phased manner, accomplished in sprints.
- All functionalities were prioritized and implemented based on Webjet team needs and specification.
 - Proof of Concept
 - Establish technology platform
 - consider XSS restrictions
 - Team analysis of scope & future plans
 - Test scenarios where widget needs to be populated (e.g deal, origin, destination, dates, search, forms etc)
 - Validation abstractions (business rules to be implemented client-side and server side, and how will be supported & maintained)
 - Hotel flight smart search
 - normal, hover, active, focused CSS states
 - Analysing results from server integrations
 - Date pickers: mouse/finger-only (no keyboard support), single calendar with start & end date tabs, without jump to month
 - Analyzing rules (e.g reject check out date earlier than check in date)
 - Hotel room occupants widget- room min/max limit, occupant details, single, adults, children, multi room, validations, selections, - 5+/4+/3+ star ratings,
 - **Various Sprints included;** Search Responsive builds, Packages, Flights (Passenger selector Widgets, Flight selector widgets, Multi-stopovers etc),

