UX Re-engineering-Sample Case Studies

At Aspire we offer various UX re-engineering services ranging from HTML5 Migration, Information Re-architecture, Single Page Application and User Interface design to our ISV customers. Aspire follows an approach called Producteering™ to build/enhance products better, faster and innovate continuously. This approach has a set of principles and practices, driven by the right people and supported by the right platforms. Thus, through strategic innovation and other key elements of Producteering™, the essentials of usability re-engineering are implemented into the software products based on the requirements.

Case 1: Re-engineering a tangled UI to a Single Page Application using AngularJS

**Customer**
A broadest range of technology solutions provider for the global news media industry, including content management, digital advertising, circulation, and audience relationship management.

**Challenges**
As their existing product was built in Delphi, they were facing challenges like poor user experience, difficulty in stacking the UI and services individually as the UI structure and core services are combined.

**Our Solution**
They partnered with Aspire Systems to re-engineer their UI framework to a Single Page Framework that is responsive and robust providing rich user experience. We recommended MVC UI framework (AngularJS) as it covers the UI and consumption of API. Thin server architecture was developed as the logic is handled by customer and server becomes pure data API or web service. Also we enabled dynamic data loading from server side API working with RESTful services. This allows extension of HTML and use of custom directives.

**Benefits**
Our solution resulted in a clear distinction between UI and core services providing way for the growth of UI separately and also enabled the evolution of Single Page Application (SPA).

Case 2: REST services using a client side MVC framework to improve user experience and performance

**Customer**
A leading global provider of language proficiency assessment solutions for education, business and government sector.

**Challenges**
They had a set of products, which all aims at a single goal but the functionalities are diversified. Hence they partnered with Aspire Systems to build a platform which comprises of all the functionalities and also to avoid many of the manual work that are being executed in present.

**Our Solution**
We analysed and deployed REST services using a client side MVC framework. As the data is consumed using REST services, the whole control flow has to be controlled in the UI, for which a MVC framework plays a vital role in maintenance. Again all the UI interaction with the backend happens through JSON from the services. This is where the AngularJS plays an important role. This provides two-way data-binding and makes it very easy to render the views based on the JSON response. Any changes made in the view are reflected on the model and vice versa. Thus reducing the server calls to a large extent.

**Benefits**
REST service is opted considering the need for scalability and to support various platforms in future. Also a light weight architecture, where the data is being transported between the client and server is less, eventually increases the performance and usability.

Case 3: Responsive web design to support various device resolution

**Customer**
A leading content management system provider for media companies. Their product brings print and digital publishing together, allowing newspapers and media companies to produce and share news content in a streamlined and collaborative environment.

**Challenges**
They had difficulties in managing the existing usability design as it is not responsive and compatible to work across various devices and thus they were unable to meet deliverables on the agreed timelines.

**Our Solution**
Aspire helped them to design and develop an enhanced UI using Angular JavaScript Framework. We implemented responsive design and provided role base access and security to all pages and modules. The cross content type search enables the user to generate one search across multiple content types. Now the product works across various device resolution.

**Benefits**
Now our customer can easily publish stories and content to different websites and devices in appropriate resolution. And the usage of open source framework to build this application made this as a cost effective solution to our customer.