



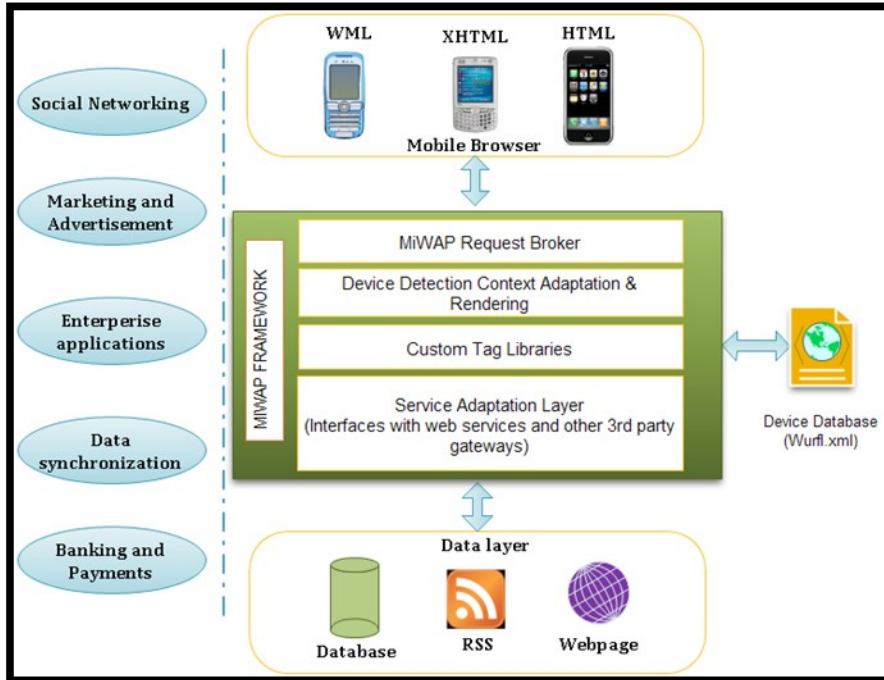
Air2Web's WAP framework

Mobile devices have become a ubiquitous communication platform today. Whether it is for information access, commercial transactions, entertainment or exploring social networks, today's users expect their mobile applications to be flexible, reliable, fast and secure.

The mobile device market varies widely in terms of the types of web experience available on each handset. Websites that were not created for mobile will always display a less rich experience on mobile, no matter how efficient the device is. Only by upgrading the user experience to match the device, such as by adapting the web site to provide a custom built experience on the phone of choice, will the value of the web site be realized on a handset.

Our mobile enablement services specifically allow you to ingest, catalog, store and deliver content to various mobile handsets. Our mobile web portal enablement framework, MiWAP®, helps us to serve companies by providing an accelerated path to the introduction of mobile channel, be it transaction oriented, social networking, media and entertainment or collaboration. Our mobile enablement service is a modular Java based framework and grows along with your portal, thus ensuring a consistent experience on the majority of mobile handsets.

REQUEST/RESPONSE HANDLER



Air2Web's WAP framework

This is a servlet that controls all the request and responses in the application and decides which action to be performed. Having a single controller also helps while having multiple submit buttons in a single form. The servlet decides the action to be performed.



Air2Web's WAP framework

DEVICE DETECTION:

Based on the request received by the request/response handler, device detection is done with the help of a device repository, such as WURFL. The detection will give us the characteristics of the device such as screen width, screen height, etc.

CONTEXT ADAPTATION

The context adaptation engine will transform the content to the mobile device's characteristics, as obtained using device detection. For example, some devices may support only .png files. In that case, this engine will convert all the images that are not supported, such as .jpeg and .bmp, to .png type.

RENDERING

The layout engine supports multiple layouts of the same page(s) for different devices, locales, etc. For example, if the device screen height is very small, then the layout engine can exclude any headers, which prevents the need for a user to navigate down to view the content. Predefined CSS templates, based on the most frequently used device form factors, are included with the layout engine.

CUSTOM TAG LIBRARIES

The framework harvests the power of tag libraries, which allow the creation of mobile specific markup on the fly. The libraries provide support for all structural tasks such as iteration and conditionals, tags for manipulating XML documents, internationalization tags, and SQL tags.

ADVANTAGES OF USING MIWAP©

- Specific and rich experience of content tailored to the device
- Integrates with open source WURFL , Manufacturers, and Paid databases for phone specifications and configurations
- Fetches data from different data sources with ease
- Easy integration with the third party services such as payment gateways
- Customized to the role, context, actions, location
- Environment that simplifies integration and deployment for developers