UX/UI Controller Component

Summary

Through construction and operation of effective smart e-government foundation system in egovernment, the service qualityUX layerof the e-government provides UI/UX Controller Components, JavaScript Module App Framework, HTML5 and CSS3 JavaScript Module App Framework service. The open source adopts JQuery Mobile that provides html5, CSS3 andJavascript. It uses the function of UI layers by customizing open source. The contents are as shown below. For flexible response to the UI/UX Controller Component Mobile Web User Environment (UX/UI), it provides the touch-optimized and required UI controller component. HTML5 is the markup language that can be used at the configuration of mobile web page and provides the mobile specialized tag and device API. CSS3 provides the function of showing suitable components depending on the mobile device and browser. In addition, it provides the javascriptandJsonstructure guaranteeing the efficiency of JavaScript Module App Framework UX/UI controller component.

Description

UX processing layer provides Button, Panel, Internal/Externel Link, Process Dialog/Bar, Menu, Date/Time Picker, Check, Radio, Label/Text, TABS, Form, Grid, List View ICon, Selector and Collapsible Block for configuring the screen with the layer that takes charge of a mobile environment screen. It also provides 16 specialized components in the mobile screen.

Declaration of Mobile Page

The jQuery Mobile should be declared as a doctype of HTML5 and can be used by importing CSS and JS(jQuery, jQueryMobile) used at the jQueryMobile.

The jQuery Mobile usesthe jQuery Core.

Mobile Page Header

Imports the mobile execution environment to the Header's declared part of the Page.

```
<!DOCTYPE html>
<html>
<head>
<title>eGovFrame</title>
<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-
scalable=no">
<link rel="stylesheet" href="/css/egovframework/mbl/cmm/jquery.mobile-1.0b3.min.css"/>
<link rel="stylesheet" href="/css/egovframework/mbl/cmm/EgovMobile.css" />
<scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></script>
<scriptsrc="js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></script>
<scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></script>
</scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></script>
</scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></script>
</scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></script>
</scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></script>
</scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></script>
</scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"</scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"</scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"></scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.js"</scriptsrc="/js/egovframework/mbl/cmm/jquery-1.6.2.min.j
```

Mobile Page Body

The page structure of the jQuery Mobile is expressed using div and the structure is separated using 'data-*' property of html5.

```
<div data-role="page">
<div data-role="header">
</div>
<div data-role="content">
</div>
```

Mobile Page Link

The jQuery Mobile is managed with one page as <div data-role="page"> unit, and if there is several <div data-role="page"> in one HTML, recognize div pages at the top as the first page. Movement between these internal pages can be performed using #pageName in the link property. The jQuery Mobile intercepts the link of anchor tag when moving to the external pages, call relevant URL to Ajax, and get <div data-role="page"> area of page called, and add the relevant contents to the DOM of HTML page called.

- Since it does not get CSS and JS of the page called to Ajax, the called Page should contain JS and CSS of the page called.
- Use data-ajax="false" if you don't want the ajax communication at the time of movement to external page.

Component		Available Function				
Button	Description	Provide the component used for command execution, option selection and opening of other dialog				
	Form	Round type (radius: 1em), Square type (radius: 0em)				
	Layout	vertical group, horizontal group				
	Color	Black, blue, gray, white, yellow, red, green				
	Height	normal(39px), small (28px)				
	Area	Fit to Screen, Fit to Text				
Panel	Description	Element that forms the page with Header/footer				
	Pattern	Provide Grid FormPattern				
	Color	Black, gray, light gray, white, yellow, red, green				
Internal / External Link	Description	Provide standardLinkFunction and Link type using Ajax by default				
	Link	Page internal link, domain internal link, external link, e-mail link, phone link, error page link				
Label / Text	Description	Provide the guide that can designate Color, Layout, Size,Font				
	Color	Green, Red, Blue				
	Layout	Left, Middle, Right				
	Size	15px, 25px, 30px				
	Font	helvetica, verdana, tahoma				
Tabs	Description	Used in Header and footer and provide the function to move between documents with tab button				
	Form	round tab(radius: 0.250em), normal tab(radius: 0em)				
	Layout	1, 1/2, 1/3, 1/4, 1/5, 1/2 Multiple Line tab				
	Color	Black, Blue, Gray, White, Yellow, Red, Green				
Form	Description	Provide HTML Form Element by optimizing it to mobile environment				
	Element	Text inputs, Search inputs, Sliders, Switches, Radio buttons, Check boxes, Selectors				
	Color	Black, Blue, Gray, White, Yellow, Red, Green				
Menu	Description	Provide menu configuration function using Dialog, Grid, List, Collapsible component				
	Effect	slide, slideup, slidedown, pop, fade, flip				
	Form	Dialog, Grid, List, Collapsible				
	Color	Black, Blue, Gray, White, Yellow, Red, Green				

UX Component

[]			
Processing Dialog / Bar	I JASCEINI INN	Provide Progress Dialog/Bar that can check the progress status between page transition		
	Form	Processing Dialog, Processing Bar		
	Color	Black, Blue, Gray, White, Yellow, Red, Green		
Dialog	Description	Provide Dialog Function that can interact with users		
	Form	Dialog, Action Sheet, Overlay, Alert, Prompt, Confirm		
	Color	Black, Blue, Gray, White, Yellow, Red, Green		
Grid View	Description	Provide the component that can arrange the contents with Grid Form		
	Layout	1/2, 1/3, 1/4, 1/5, Variable Grid View		
Table / List View		Provide the component that can arrange the contents with Table/List Form		
	Form	Read-only list, Link list		
	Function	Nested List, Numbered List, Split Button, List Divider, Count Bubble, Thumbnail, List icon, Content Formatting, Search Filter Bar		
	Color	Black, Blue, Gray, White, Yellow, Red, Green		
Date / Time Picker	Description	Provide Picker that can select the date and time		
	Form	Android Date Picker, Popup Calendar, Android Time Picker		
Check/ Radio	Description	Provide the function that can select the items with Check/Radio Form		
	Layout	vertical group, horizontal group		
	Color	Black, Blue, Gray, White, Yellow, Red, Green		
Icon	Description	Provide the icons that are most frequently used in mobile application		
		arrow-l, arrow-r, arrow-u, arrow-d, delete, plus, minus, check, gear, refresh, forward, back, grid, star, alert, info, search, home, phone, mail		
	Color	Black, Blue, Gray, White, Yellow, Red, Green		
Selector / Switch	Description	Provide the function that can select the item with Selector/Switch Form		
	Effect	pop-up, list		
	Function	Multiple select, Single select		
	Form	Round type(radius: 1em)? Square type(radius: 0em)		
	Area	Fit to Screen, Fit to Text		
	Effect	Apply Shadow, Remove ?Shadow		
	Form	Non-group, Group		
	Color	Black, Blue, Gray, White, Yellow, Red, Green		
Collapsible Block	Description	Provide the control function that can fold and unfold the area of contents		
	Form	normal, Group, Nested		
	Color	Black, Blue, Gray, White, Yellow, Red, Green		

Browser Compatibility Compliance Guideline per UX Component

- 1. Ground Standards: The Ministry of Public Administration and Security Notice "No. 2010-40
- 2. Reason of Revision: specify the matters that the public organization should comply with for improvement of accessibility for supply of mobile e-government service
- 3. Contents of Main Revision
 - $_{\odot}$ Recommend the mobile 'web' type rather than the mobile 'app' type so that people can use various kinds of mobile devices.
 - $_{\odot}$ Technology standard instruction for mobile web type development
 - Provide equal service at 3 types of web browsers at minimum
 - Regulate the mandatory use of standard provided by international standardization organization
- 4. Principle of providing e-government mobile service
 - \circ $\,$ Recommend mobile web type development so that various smart phone users can obtain all benefits
 - \circ Refer to support browser (compatibility) per mobile common component

Support Browser per UX Component (Compatibility)

Test Devices



Test Browsers



Specification of browsersto support the Mobile Standard Framework User Experience (UX)

Ⅰ 지원 플랫폼

컴포넌트	I	Ø	۷	0
지원버젼	4.3 ↑	2.3 ↑	5.0 ↑	11.50 ↑
Button	0	0	0	0
Panel	0	0	0	0
Internal/External Link	0	0	0	0
Label/Text	0	0	0	0
Tabs	0	0	0	0
Form	0	0	0	0
Menu	0	0	0	0
Processing Dialog / Bar	0	0	0	0
Dialog	0	0	0	0
Grid View	0	0	0	0
Table / List View	0	0	0	0
Date / Time Picker	0	0	0	0
Check/ Radio	0	0	0	0
Icon	0	0	0	0
Selector / Switch	0	0	0	0
Collapsible Block	0	0	0	0

Reference

• Guide for the SupportingFunction of the Mobile Execution Environment User Experience(UX)_