Zoom Challenge - Agenda

Goals:

1. Set up environment for BlackBerry 10 WebWorks development.
2. Learn how to port existing HTML5 applications to BlackBerry 10
3. Learn how to package, sign and deploy applications using the WebWorks SDK
4. Set up github, and learn the basics on how to collaborate and contribute to open source projects
5. Add a feature and style the ported application

Workflow:

We will be porting the vanillaJS Todo app from <https://github.com/addyosmani/todomvc/tree/gh-pages/vanilla-examples/vanillajs>

Section 1: Installing a Web Server for debugging, packaging and signing apps

Installing a web server makes it possible to make use of Ripple GUI for packaging, debugging and signing apps.

1. Download and install XAMPP <http://www.apachefriends.org/en/xampp.html>
2. Typically the server hosts a folder located at C:\XAMPP\htdocs, keep this as your project folder, because it makes things much easier.
3. When XAMPP is running, all your projects can be accessed via the browser using http://localhost/projectname
4. This is where you will clone the repo to (next step), so you can access it at http://localhost/ ZOOM-Challenge-Todos
5. Using Google Chrome, install the Ripple emulator: <https://developer.blackberry.com/html5/downloads/fetch/ripple_ui.crx>

Section 2: Basic porting

Here you will learn basic porting, packaging and testing of mobile HTML5 apps:

1. I’ve created a new repo at <https://github.com/anzorb/ZOOM-Challenge-Todos>
2. Fork and Clone the repo to your machines into the htdocs folder created above
3. Download the source code from the repo above, copy into local repo, and make sure it runs in the browser – figure out if you need to move some files so that dependencies are met.
4. Create a config.xml file (sample here: <http://developer.blackberry.com/html5/documentation/code_sample_creating_a_bb_widget_config_document_834683_11.html>)
5. Package, sign and deploy the app using Ripple
6. Add and commit your changes, and perform a Pull Request to me, so I can merge them in.

Section 3: Styling the app for mobile

The sample code above is targeting desktop apps, so we need to style the Todos app so it fits nicely on mobile.

1. In order to stop the application from zooming and set up the viewport, following the steps here:

<http://supportforums.blackberry.com/t5/Web-and-WebWorks-Development/How-to-set-up-the-viewport-for-a-BlackBerry-WebWorks-application/ta-p/1943807>

1. Style the application so it fits nicely on the BlackBerry 10 Screen
2. Add and commit your changes, and perform a Pull Request, so I can merge them in.

Section 4: Adding BlackBerry 10 features.

Let’s add the ability to share a Todo item with friends using invoke.card

1. Insert onWebWorksReady into app.js to ensure BlackBerry APIs are ready for consumption.
2. Go over the API here:

<https://developer.blackberry.com/html5/apis/blackberry.invoke.card.html>

1. Add the necessary feature to config.xml (<feature id="blackberry.invoke.card" />).
2. Add a share function to app.js, refer to the sample at shareTextMockingSelection.
3. Add the button on each Todo item, which invokes the share function and passes the Todo’s contents as a string.
4. Package, deploy, test.
5. Add and commit your changes, and perform a Pull Request, so I can merge them in.