This project is built all programmatically without storyboard.

How to run:

Unzip the MyDemo.zip folder build in Xcode and run on simulator.

Design:

The main view of the web browser is the a viewcontroller which contains three parts from top to bottom:

1. The Tabcontainer which contains all the tabs.

- The tabcontainer is the delegate for all the tab views response for tab view switch and tab view close.
- There is a scrollview can let the user navigate all the tabs
- When switch to a different tab the tab color will change to show the user it is selected.
- Each tab is a tab view which is an uiview, has a gesture recagnizer let the user switch to different tabs, and has a x button let user close the tab.
- Each tab has its own WKWebView, which will be added as a subview to the webcontainer when needed. There is a add button on the left of the tabcontainer which can let user add new tabs.

2. The address view which contains the backward, forward, refresh, urltextfield, and bookmark menu button the address view is shared by all the tabs.

- The back and forward button let user navigate the history list. And if cannot go back/forward the button is enabled.
- The refresh button will refresh the page.
- The urltextfiled is responsible for displaying the current url of the page.
- The bookmark menu includes show and add bookmarks.

3. The container view which is a UIView and the parent view of the tabview's WebView when switch to certain tab. when the user switch to different tabs, the app will add/remove the switched WKWebView to the webcontainer view.

Advanced Feature Design:

The advance feature is supporting the bookmark feature.

- Used userdefault to store the bookmarks as a custom object list. Users can also delete the bookmark.

- User can touch the bookmark menu button to navigate bookmark menu including add and show.
- In the add bookmark view there is a table view contains a cell which including two textfields user can in put the bookmark title and bookmark url in them.
- In the show view there is a collection view to show all the bookmarks, and user can navigate to the certain bookmark url by touch on the collection cell.
- Every collection cell has a xmark, if user touch the xmark they can delete the bookmark.