Improving the Wiki-UI using

jQuery

What is jQuery?

jQuery is very compact and well written JavaScript code that increases the productivity of the developer by enabling them to achieve critical UI functionality by writing very less amount of code and can be used with JSP, Servlets, ASP, PHP, CGI, etc.

The jQuery library provides many easy-to-use functions and methods to make rich applications.

It can be loaded from CDN's (Content Distribution Network), since the JavaScripts are generally already loaded sometime in the browser's cache, so the browser loads the Page **Faster**.

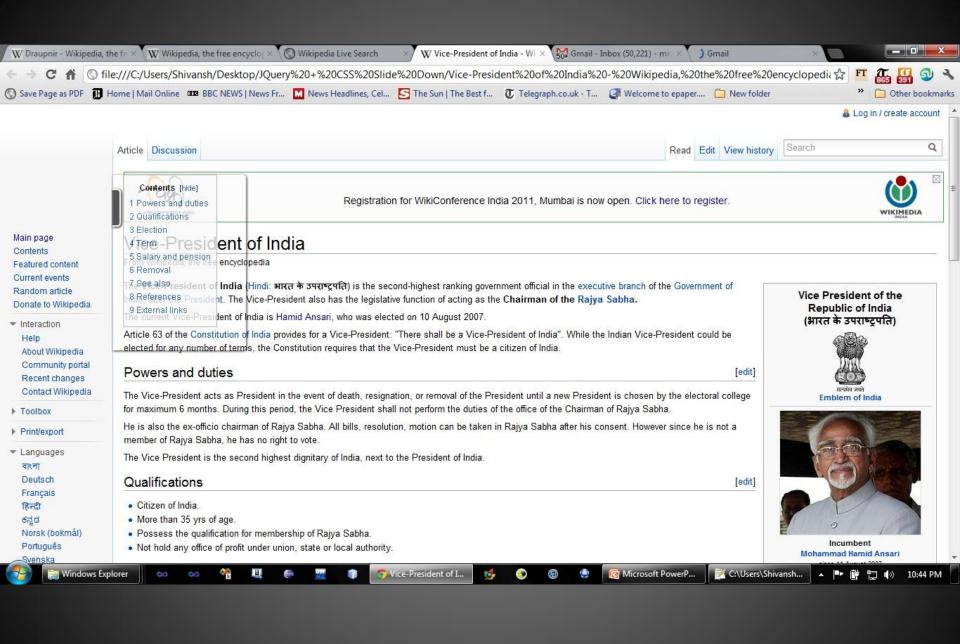
Advantages

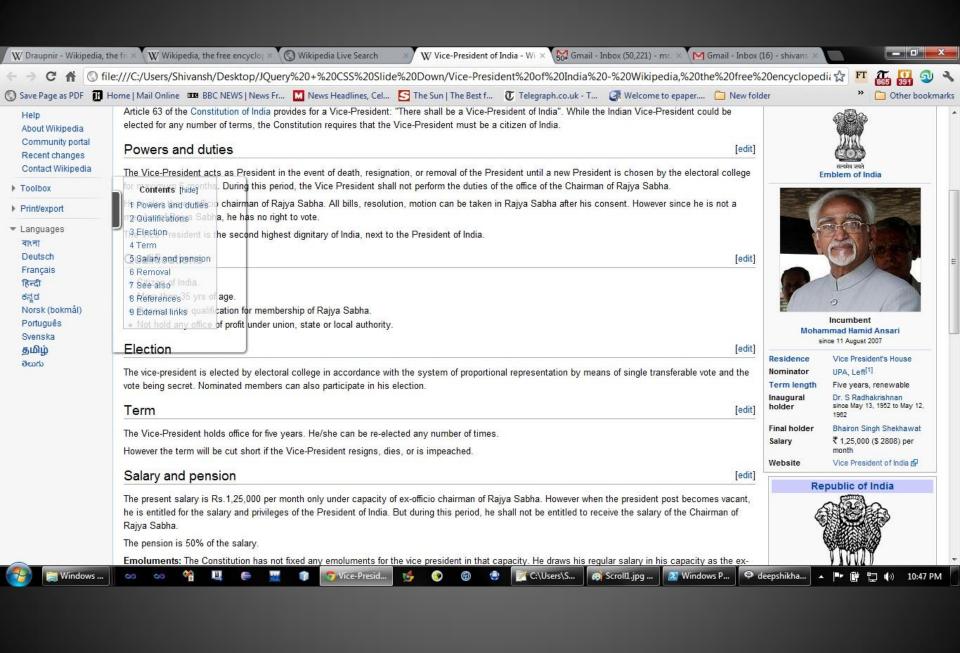
- Appealing to use, more Interactive for Users.
- Large Library, upon the Developer how to use.
- Creates Effects and Animations, Usability.
- Strong Open Source Community.
- AJAX support.
- Supports all versions of CSS.

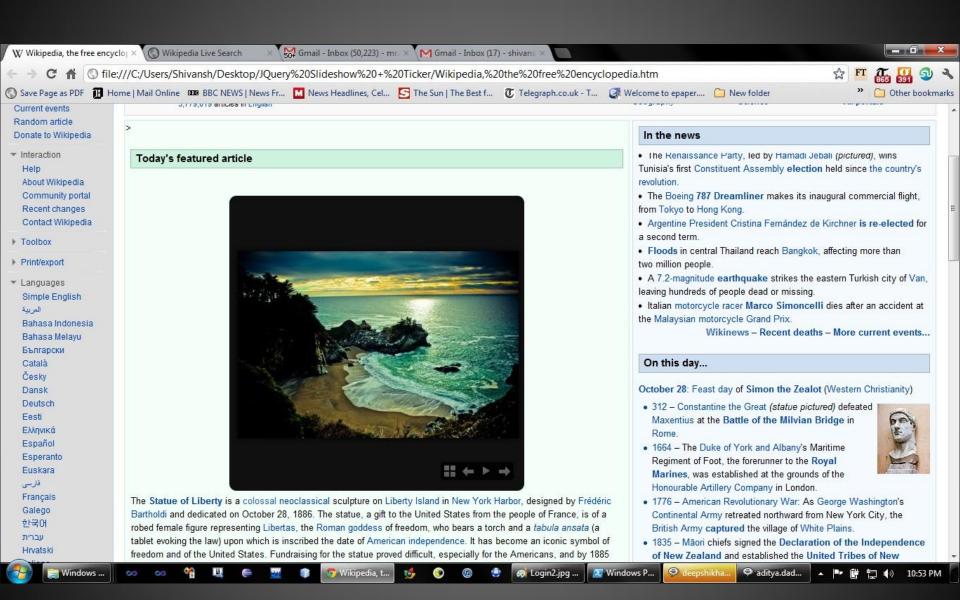
Uses of jQuery in Wiki

- Registering or User Login Slide in on every Wiki page.
 (like Twitter)
- Slide show of pictures for the "Featured Article", "In the News" & "On this Day" Section on Wiki Main Page.
- Ticker for "In the News" Section.
- Static Table of Contents sliding down, with Content loaded as & when User selects for it.

JQuery will be implemented along with AJAX & CSS.







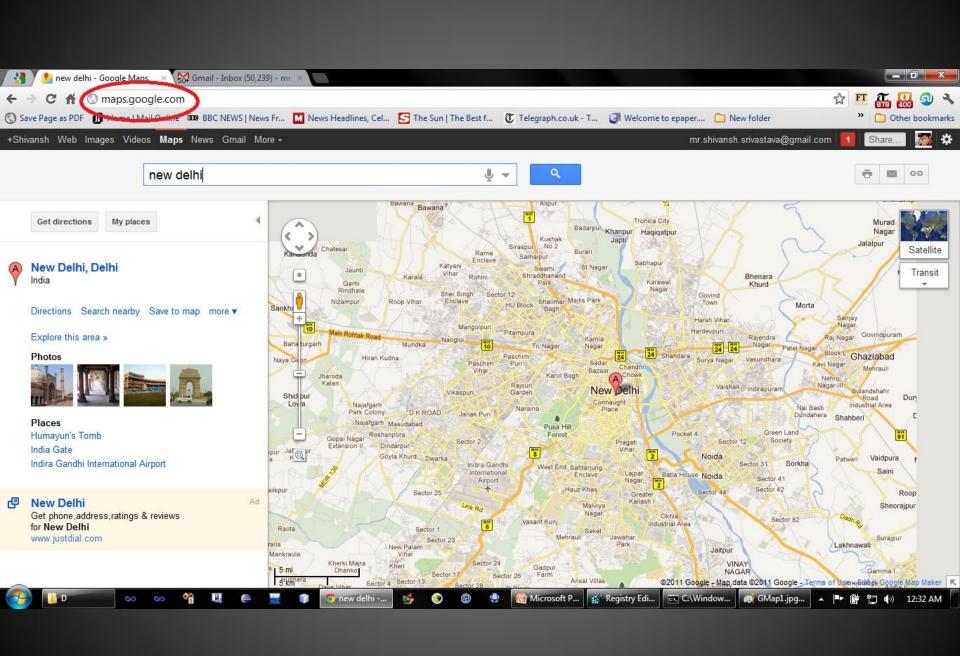
Improving the Wiki-UI using

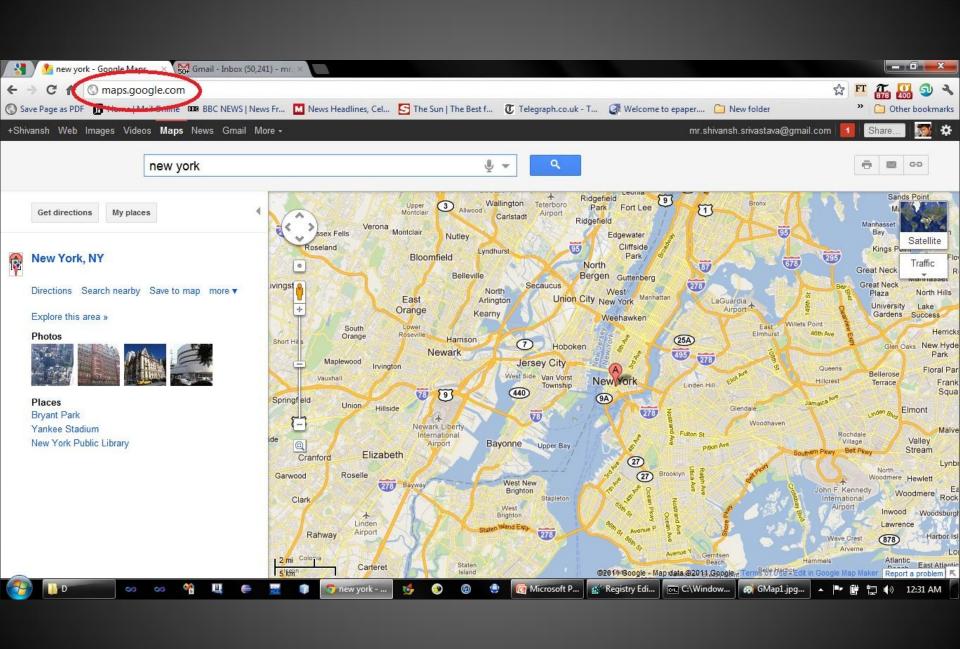
AJAX

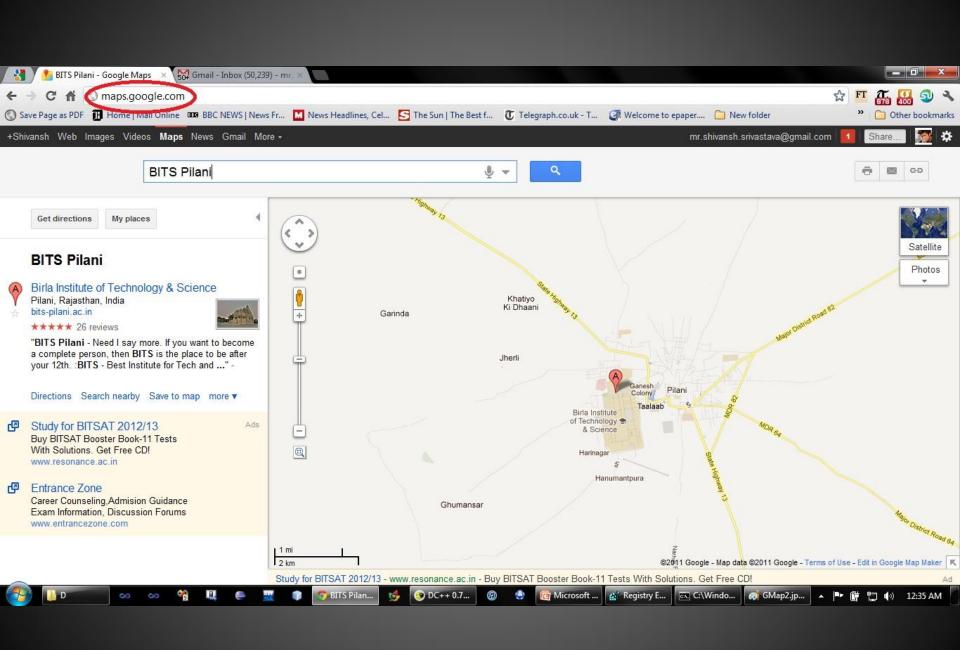
What is AJAX?

AJAX allows web pages to be updated asynchronously by exchanging small amounts of data with the server behind the scenes. AJAX updates parts of a web page, without reloading the whole page.

AJAX allows displaying web pages with interactive, efficient and quick interfaces, the benefits behind AJAX have pushed several web developers to program websites by implementing AJAX, web giants like Google, effectively utilize AJAX in their web applications like Gmail and Google Maps.







Understanding AJAX

AJAX is not a single technology, but it is a combination of many technologies. These technologies are supported by most Web Browsers.

JavaScript:

JavaScript is used to make a request to the web server. Once the response is returned by the web server, more JavaScript can be used to update the current page. DHTML and CSS is used to show the output to the user. JavaScript (jQuery) is used very heavily to provide the dynamic behavior to the application.

Asynchronous Call to the Server:

Most of the Ajax application used the XMLHttpRequest object to send the request to the web server. These calls are Asynchronous and there is no need to wait for the response to come back. User can do the normal work without any problem.

• XML:

XML may be used to receive the data returned from the web server. JavaScript can be used to process the XML data returned from the web server easily.



Advantages

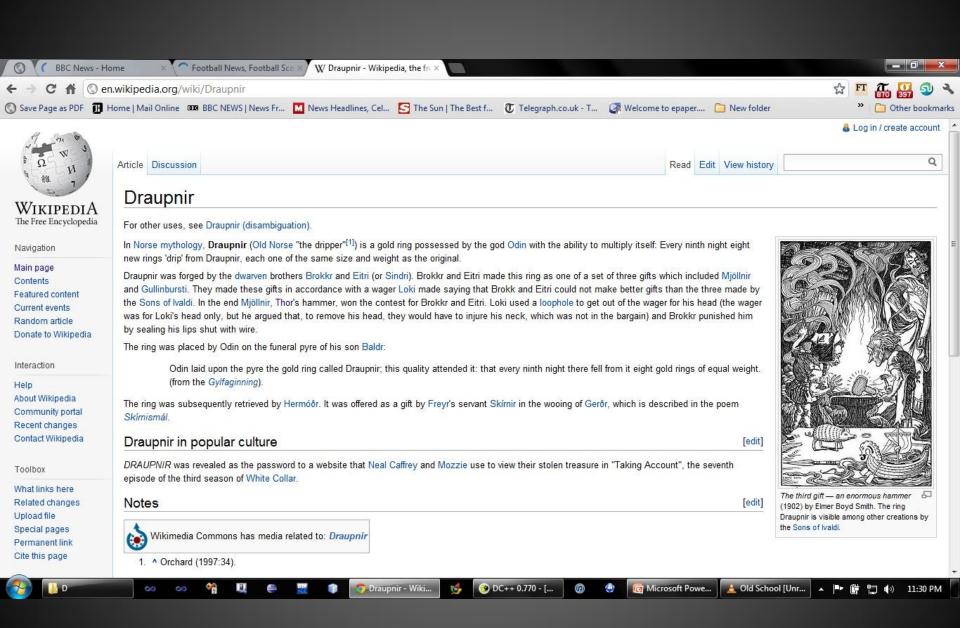
- AJAX can be used to develop web applications that can update the page data continuously without refreshing the whole page
- The whole Web page would be compact.
- One wont have to scroll through large paragraphs.
- Bandwidth Usage
- **Traffic** to and from the server is **reduced**.
- Form Validation.
- User Simplicity.
- Speed.

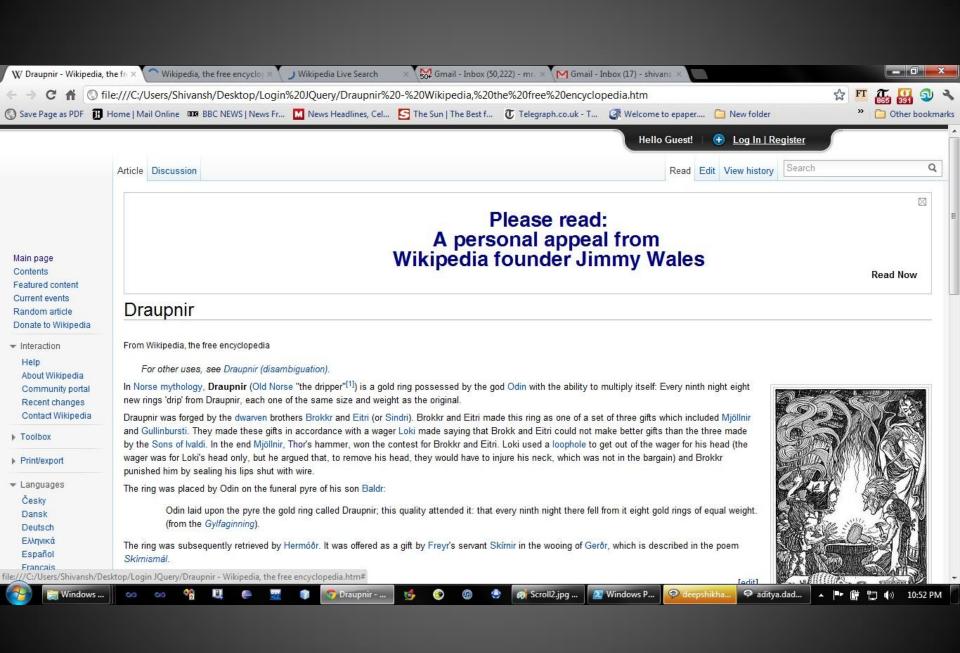
Disadvantages

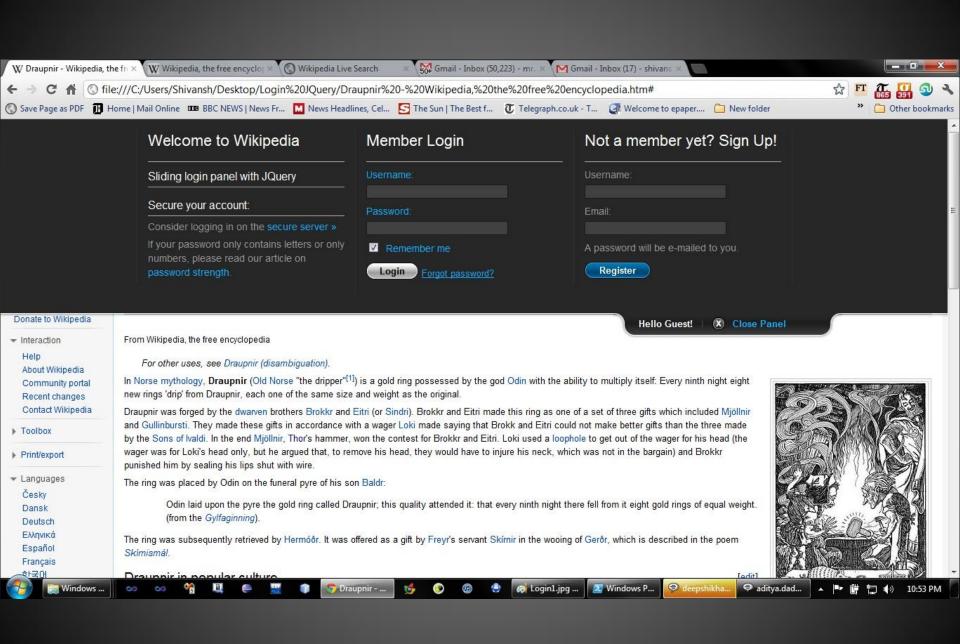
- If you press the back button, you may not be able to return in the previous state.
- Might be **difficult to bookmark** and return to that particular state of the application.

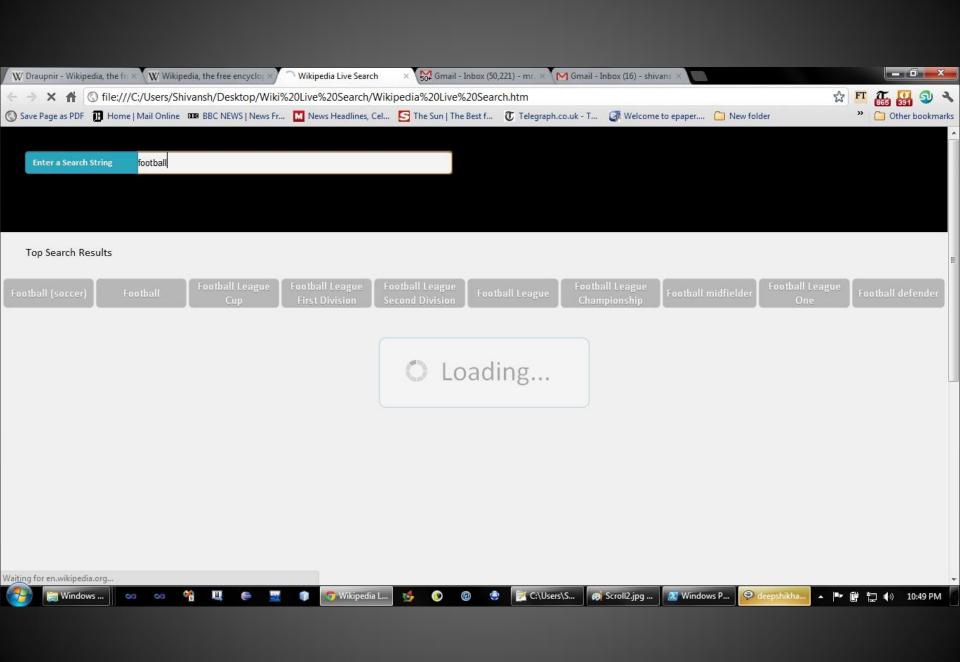
Uses of AJAX in Wiki

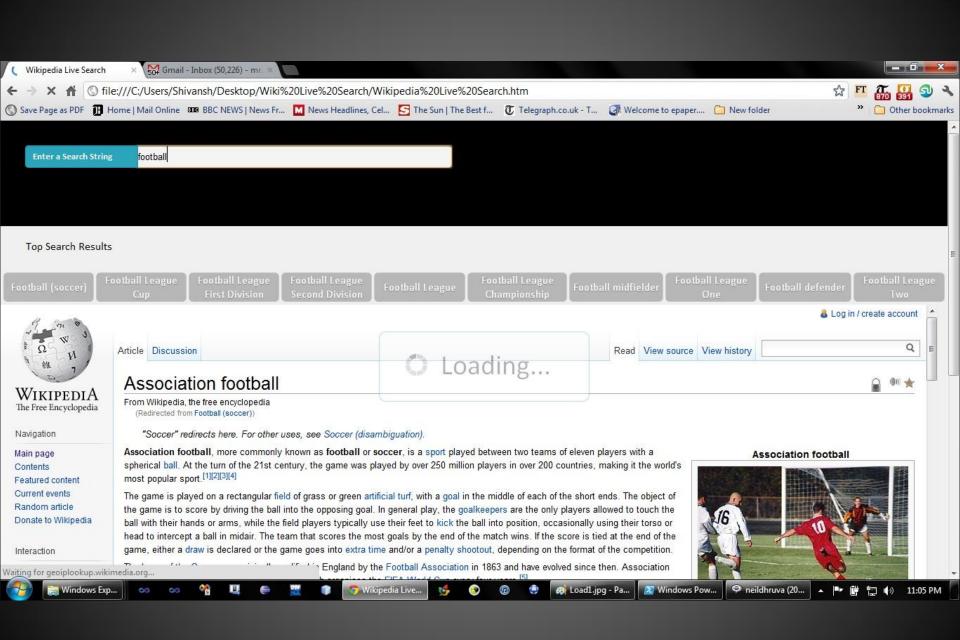
- Registering or User Login & storing the User Data Dynamically.
- Loading Each topic from the Table of Contents as & when User Selects for it. (Especially useful in Pages which are too long)
- Table of Contents sliding down.
- Live Search for Wiki Content.
- Editing the Wiki Content in a pop out Dialog Box Dynamically.











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