# MICHIGAN STATE UNIVERSITY Project Plan In-Content Preferences for Firefox

#### The Capstone Experience

#### Team Mozilla

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...to Professionals

#### **Project Overview**

- Move preferences from pop-up window to tab within the Firefox browser
- Get rid of easy to lose window in favor of tabbed style used in other browsers
- Create intuitive, easy to understand UI that will fill a larger area
- Enable users to more easily experiment with Preferences by removing modal blocking



## **Functional Specifications**

- Retain all functionality of current preferences page while using a new User Interface
- Implement search functionality for users to easily locate the preferences they are looking for
- Provide identical in-content Preferences experience across all devices

## **Design Specifications**

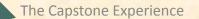
- Must create a UI that can be used by users of varying skill/knowledge of computers and web browsers
- Users want different things from preferences
  - Accessibility vision, dexterity, hearing
  - Privacy control what information sites can track
  - Customization muscle memory/habits

#### Screen Mockup: Current Preferences

O	otions				-			×
			页		90		0	÷
	General	Tabs	Content	Applications	Privacy	Security	Sync	Advanced
	Startup							
	When Fire	efox <u>s</u> tarts:	Show my	home page		-		
	D	on't <u>l</u> oad ta	abs until sele	ected				
	Home <u>P</u> a	ge: http:	//www.face	book.com/hom	e.php?ref=l	hp		
			Use	Current Pages	Use <u>B</u> ookmark		Restore to Default	
	Download	ls						
	Show	the Down	loads windo	w when downlo	ading a file			
	Show the <u>D</u> ownloads window when downloading a file           Close it when all downloads are finished							
	Save f	files to	Downloa	ıds			В	rowse
			where to sav					
	Add-ons							
	Change options for your add-ons <u>Manage Add-ons</u>						dd-ons	
						L		
				_				
					OK	Canc	el	<u>H</u> elp

#### Screen Mockup: Windows

Firefox •	rences × 💦 Mozilla Firefox Start Page × 🖗 Planet Mozilla 🛛 × 🐢 Planet Mozilla	
		earch preferences
	Firefox General Tabs Content Applications Privacy Security Advanced	
	Add-ons	



#### Screen Mockup: Windows

Firefox  Preferences		
Image: A state of the	s Advanced Network Exceptions Search prefe	erences p
	Offline Data The following websites are not allowed to store data for offline use:	
	Site  Status	
		ł
	Remove Site Remove All Sites	
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#### Screen Mockup: Mac



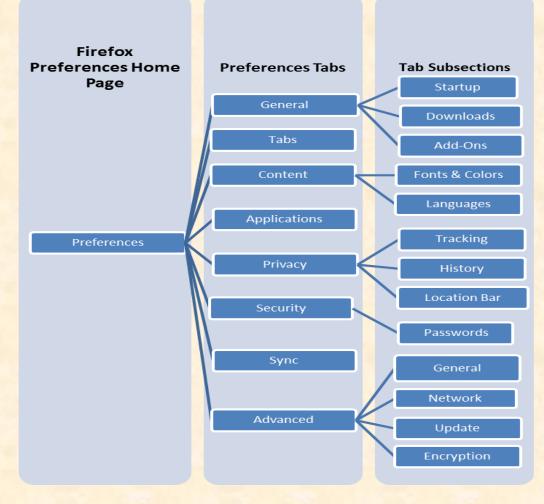
### Screen Mockup: Mac

A D Prefe	erences 🛛 🚷 Mozilla Firefox Start Page 🖗 🛛 Planet Mozilla	- +	1
Preferer	Advanced Network Exceptions	Q Search pr	eferences
	Connection		
	Configure how Minefied connects to the internet	Settings	
	Offline Storage		
	Use up to 50 MB of space for the cache	Clear Now	
	Tell me when a website asks to store data for offline use The following websites have stored data for offline use:	Exceptions	
	apirocks.com mrgan.com everytimezone.com	0 b 0 b 30	
	www.mrgan.com	0 b A	

# **Technical Specifications**

- Implement using XHTML, XUL, CSS, and JavaScript
- Use XHTML as much as possible embedded in an XUL page
- Utilize Mercurial to manage source code and efficiently create patches
- Entire page must be contained in one XUL file to enable quick search

# **Preferences Page Architecture**



The Capstone Experience

#### System Components

- Hardware Platforms
  - Any device capable of downloading and installing Mozilla Firefox browser
- Software Platforms / Technologies
  - Mercurial
  - Bugzilla
  - Mozilla Firefox

#### Testing

- Automated testing using Mochitest
- Tests are JavaScript snippets that can test the functionality of pages while running
- Using existing automated tests as well as create specific tests for our page

#### Risks

- Lack of knowledge of Mozilla's development tools and practices, including automated testing with Mochitest
- Design decisions must be confirmed with the User Experience team before implementation
- Inexperience using Mercurial as a repository to create patches
- Lack of knowledge in XUL and JavaScript