WELCOME TO Q3!!

BUT FIRST...
LET'S REFLECT ON Q2

What are you the most proud of?

Q2 REFLECTION CONTINUED

» Take a minute to think about all you learned

» Are you still unclear about anything?

» Have any questions?

» Is there anything you'd like to practice?

NOW...

LET'S GET READY FOR Q3!

JANUARY 2018

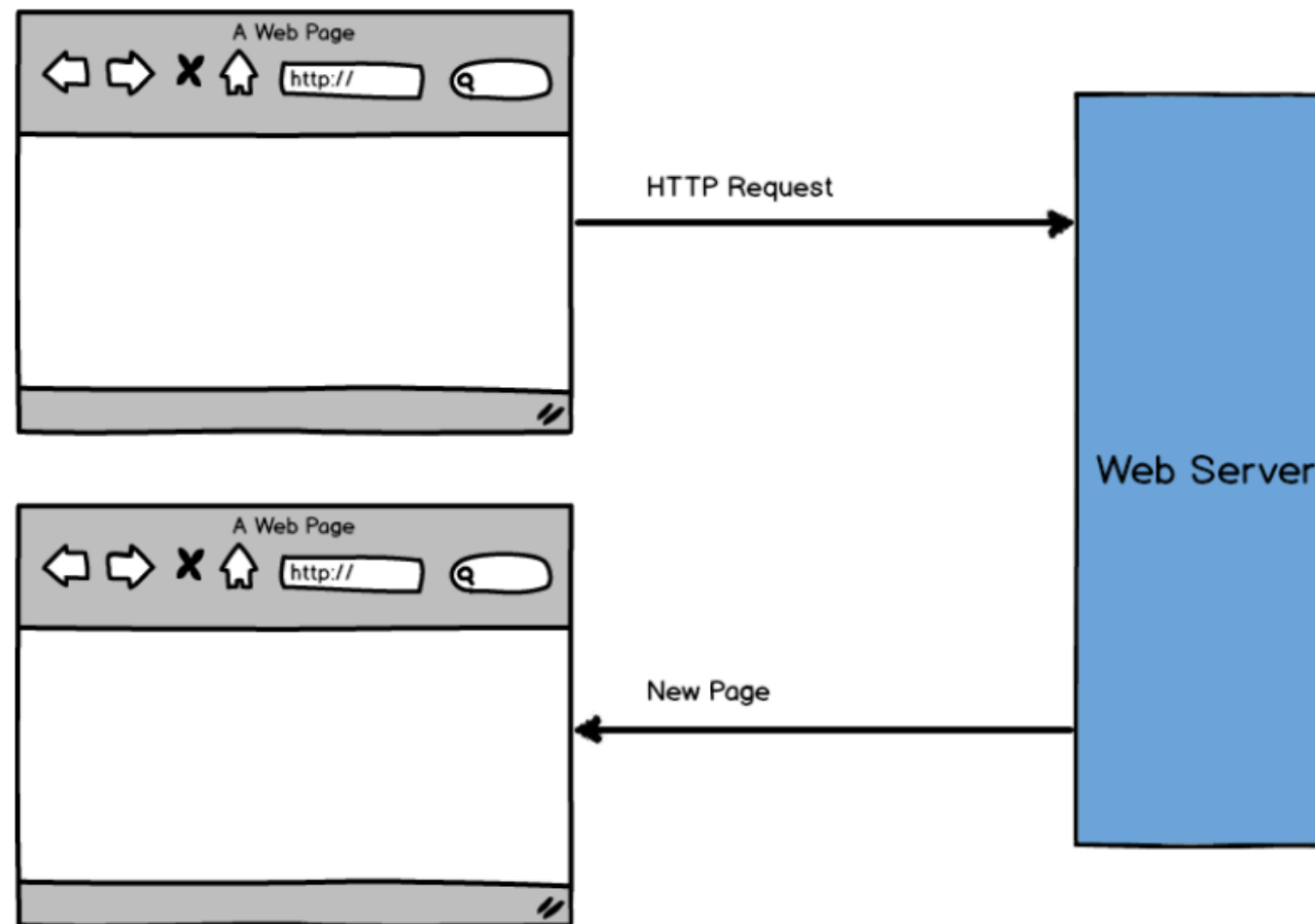| SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 No School	2 Intro to Q3/ Wrap-up Q2	3 OOP Intro to React	4 React Components	5	6
7	8 React w/ APIs	9	10 React Router	11	12	13
14	Martin Luther King, Jr. Day No School	16 React Testing	17 Redux (optional)	18 React Testing	19	20
21	22 <=='	23 Unfamiliar	24 Environments	25 Week	26 ==>'	27
28	29 Project Week	30 Project Week	31 Project Week	1 Project Week	2 Q3 Projects	

WHAT'S NEW THIS QUARTER!

» Fewer Lessons

» More Time for Career Services

» Self Learning - GRIT

» Single Page Applications
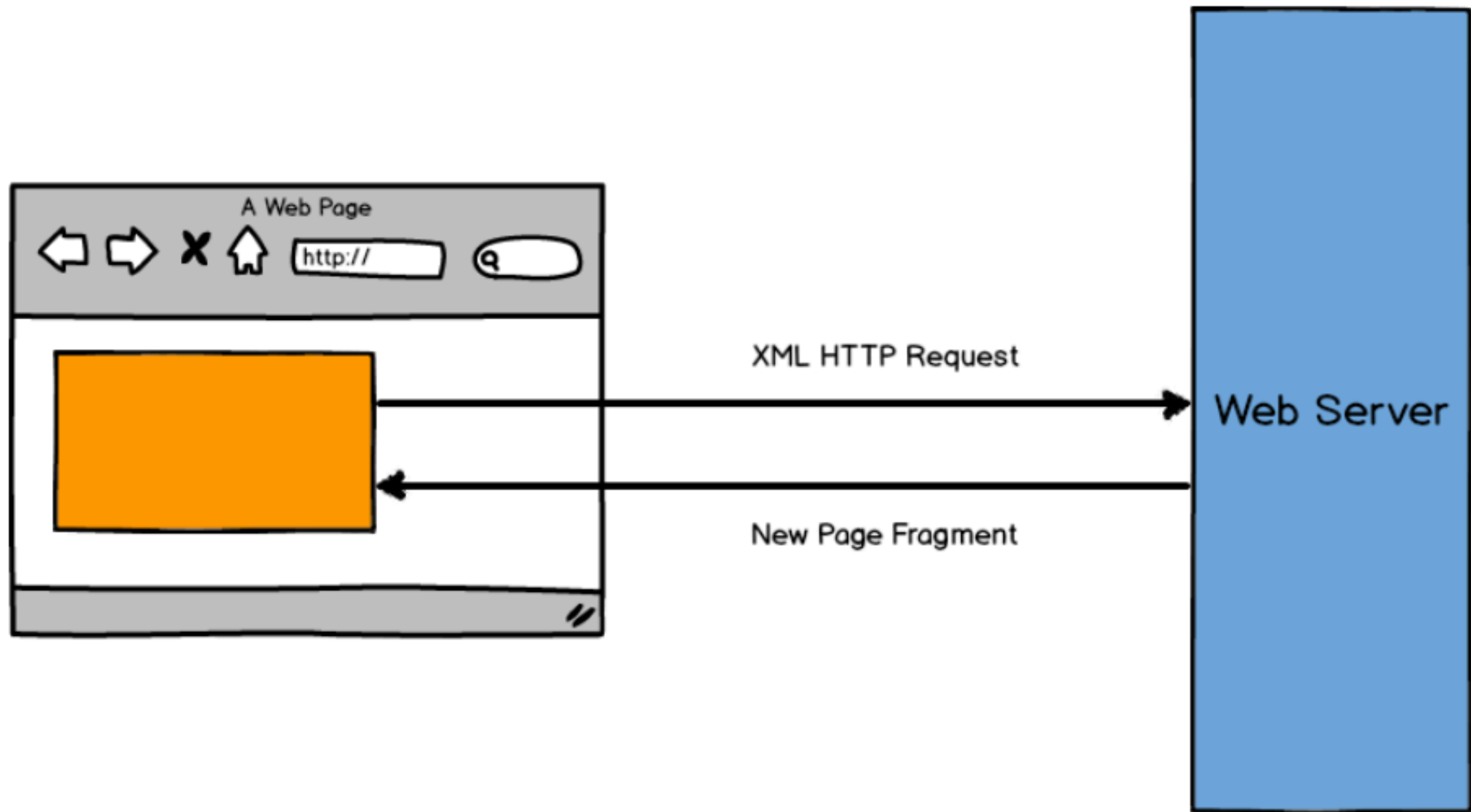
SINGLE PAGE APPLICATIONS

A BIT OF HISTORY

1. Static Web Pages and Hyperlinks

Traditional Full-Page Postback Operation

VARIOUS APPLICATION DEVELOPMENT MODELS WERE BORN

» Dynamically generated pages

» Action based on MVC

» MVC based on components

» MVC enriched with AJAX

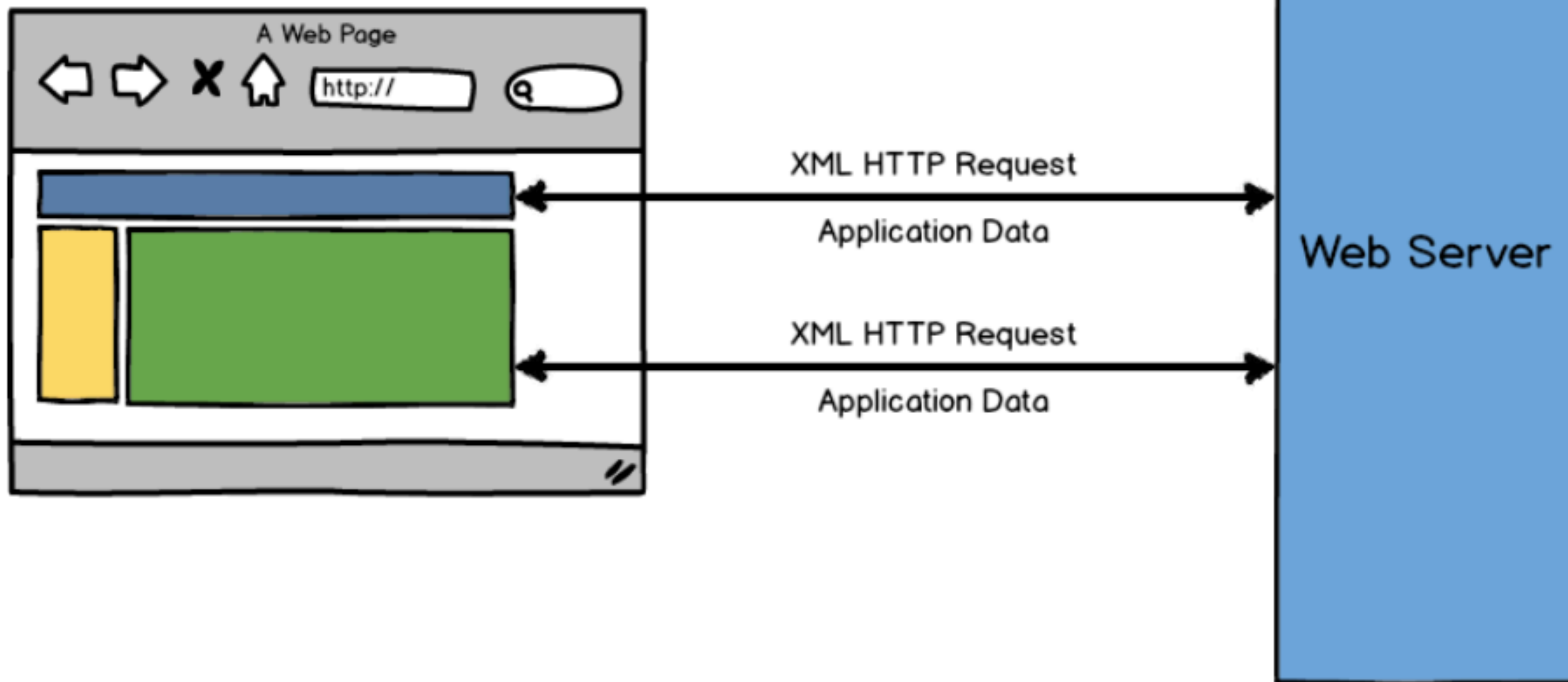AJAX XMLHttpRequest Partial Rendering

WHERE WE STAND TODAY

» Server-templating model

CONS

» Bad user experience – Continuous page re-rendering has a negative impact on the user experience because network latency cannot be hidden from the user.

» Poor performance – Unnecessary re-transmission of data over the wire occurs because the page completely reloads on each user interaction.

» Lack of offline support – A web application 'is alive' as long as there is a server connectivity. If the server connectivity drops, the web

THUSLY, THE RISE OF SINGLE PAGE APPLICATIONS

In a single-page application, all of the code needed is included in a single-page load. This includes all of the CSS, HTML, and JavaScript. The page does not reload, and it requires dynamic interaction with the Web server.

Single Page Application Elements within a Page

FRONT END FRAMEWORKS HELP TO BUILD SPAS.

ADVANTAGES

1. Efficiency

1. Safety

1. Cost

MOST POPULAR FRAMEWORKS IN 2017 (IN ORDER OF POPULARITY)

» ReactJs

» Angular

» Vue (sort of)

» Others...Ember, Meteor, Backbone

RESOURCES:

+CodeSchool: Single Page Applications
+Intro to Single Page Applications
+SPA vs MPA
+Server-Side Rendering vs. Client-Side Rendering