

Project Twitter Clone

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INTRODUCTION:

The document outlines a project for the React. The project is to create Twitter Clone. This document contains the work flow of the system and gives guidelines of how to build the functionality gradually in each of the course modules of the react.

1.1 SETUP CHECK LIST FOR PROJECT

Minimum System Requirements

- Intel Pentium 90 or higher
- Microsoft windows 2010 or above
- Memory: 8GB or RAM
- Internet Explorer 10 or higher
- Visual Studio

2. PROBLEM STATEMENT

2.1 OBJECTIVE

Twitter has become a very popular microblog website and had attracted millions of users up to 2009. It is generally considered as a social networking website but gradually also used as a media for people or companies to spread out news or marketing information. One reason for considering Twitter as a media that broadcasts information instead of a social network is that on Twitter the friendship between two users are asymmetric [1] and according to [1] only 22.1% of the relationships are reciprocal. This is very different from the online message services such as MSN or Google Chat. However, different from the traditional media like TV or newspapers, a user can easily propagate an information she saw from other users to her followers by retweet, which is an automatic way of duplicating others' posts on the reader's Twitter board. The retweet function is critical for making the information available to a large number of users. However, in the online environment, we know sometimes people see but not really read the content.

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2.2 TECHNOLOGIES USED

What Does Web Mean?

The Web is the common name for the World Wide Web, a subset of the Internet consisting of the pages that can be accessed by a Web browser. Many people assume that the Web is the same as the Internet, and use these terms interchangeably. However, the term Internet actually refers to the global network of servers that makes the information sharing that happens over the Web possible. So, although the Web does make up a large portion of the Internet, but they are not one and same. Twitter is easy to use as either broadcaster or a receiver. You join with a free account and Twitter name. Then you send broadcasts (tweets) daily, hourly, or as frequently as you like. Go to the What's Happening box next to your profile image, type 280 or fewer characters, and click Tweet. People who follow you, and potentially others who don't, will see your tweet.

TWITTER:

Twitter is easy to use as either broadcaster or a receiver. You join with a free account and Twitter name. Then you send broadcasts (tweets) daily, hourly, or as frequently as you like. Go to the **What's Happening** box next to your profile image, type 280 or fewer characters, and click **Tweet**. People who follow you, and potentially others who don't, will see your tweet.

HTML

HTML (Hyper Text Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. Other technologies besides HTML are generally used to describe a web page's appearance/presentation (CSS) or functionality/behavior (JavaScript).

"Hypertext" refers to links that connect web pages to one another, either within a single website or between websites. Links are a fundamental aspect of the Web. By uploading content to the Internet and linking it to pages created by other people, you become an active participant in the World Wide Web.

CSS

CSS (Cascading Style Sheets) is a declarative language that controls how web pages look in the browser. The browser applies CSS style declarations to selected elements to display them properly. A style declaration contains the properties and their values, which determine how a webpage looks. CSS is one of the three core Web technologies, along with HTML and JavaScript. CSS usually styles HTML elements, but can be also used with other markup languages like SVG or XML. A CSS rule is a set of properties associated with a selector. Here is an example that makes every HTML paragraph yellow against a black background:

Bootstrap

Bootstrap is a free, open source HTML, CSS, and JavaScript framework for quickly building responsive websites.

Initially, Bootstrap was called Twitter Blueprint and was developed by a team working at Twitter. It supports responsive design and features predefined design templates that you can use out of the box, or customize for your needs with your code. You don't need to worry about compatibility with other browsers either, as Bootstrap is compatible with all modern browsers and newer versions of Internet Explorer.

JS

JavaScript (JS) is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it, such as Node.js, Apache CouchDB and Adobe Acrobat. JavaScript is a prototype-based, multi-paradigm, single-threaded, dynamic language, supporting object-oriented, imperative, and declarative (e.g. functional programming) styles.

Reactjs

ReactJS is JavaScript library used for building reusable UI components. According to React official documentation, following is the definition –

React is a library for building composable user interfaces. It encourages the creation of reusable UI components, which present data that changes over time. Lots of people use React as the V in MVC. React abstracts away the DOM from you, offering a simpler programming model and better performance. React can also render on the server using Node, and it can power native apps using React Native. React implements one-way reactive data flow, which reduces the boilerplate and is easier to reason about than traditional data binding.

Description:

Twitter is social media, but it's more than instant messaging. Twitter is about discovering interesting people around the world. It can also be about building a following of people who are interested in you and your work or hobbies and then providing those followers with some knowledge value every day.

System Design

. The participants need to develop the basic functionality of twitter , Twitter SMS is a social networking service that is available to registered users and can be accessed through web interface or mobile-device application software. This application creates a great display experience for readers

With SMS, users are able to interact with other users through posts known as "tweets". Posts can include images, videos, or short messages that are limited to 280 characters. A social media interface allows users to like and comment on follower's posts.

Implementing Tools for the Project

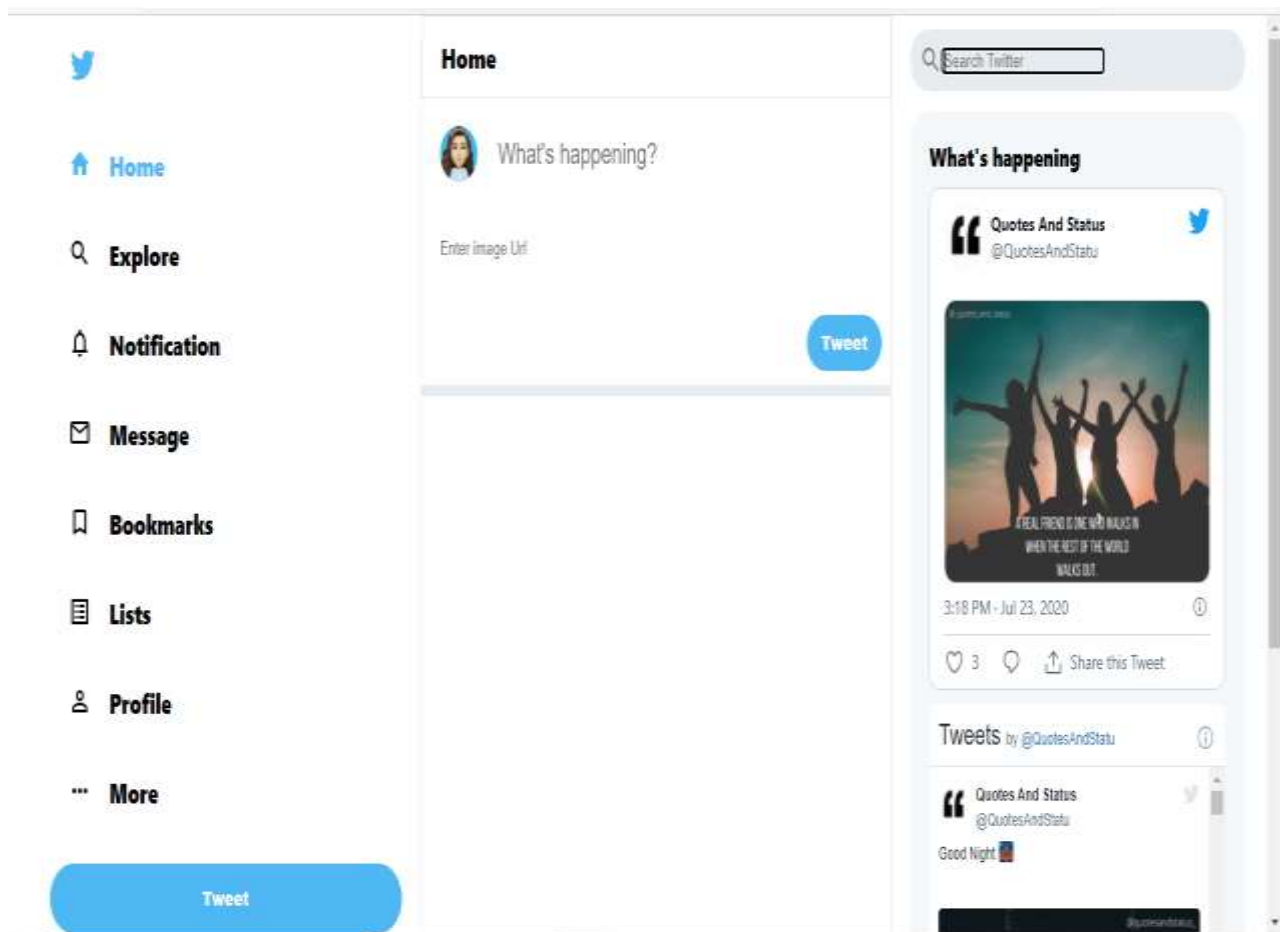
- HTML
- CSS
- JavaScript
- React
- Firebase

3. IMPLEMENTATION IN REACT:

SUMMARY OF THE FUNCTIONALITY TO BE BUILT:

- tweet Likes

- retweet
- Replies
- Profile page
- Comment on tweet



CONCLUSION :

Here, we have implemented basic Functionality of Twitter clone.