Jquery Basics - Introduction

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We will cover with the following concepts

1) Brief History of Jquery

2) Why Jquery was needed?

3) Use cases of Jquery

4) Great facts about Jquery

Jquery was created in 2006

- It is cross platform javascript library that is used to create the dynamism in the web.
- The sole purpose with which it was created was to simplify use of Javascript on Frontend i.e. on Client side.

- Its motto is "Write less, Do More"

- It is still being updated. last update was in Jan of 2018

- Jquery is basically an abstraction of Client Side Javascript

Before Jquery, writing Javascript on frontend was painful

```javascript
// Create table.
var table = document.createElement('table');
document.getElementById("data-list").appendChild(table);
// Add the header row.
var header = table.createTHead();
var row = header.insertRow(-1);
for (var i = 0; i < columnCount; i++) {
    var headerCell = document.createElement('th');
    headerCell.innerText = columnHeadings[i].toUpperCase();
    row.appendChild(headerCell);
}

// Create table body.
var tBody = document.createElement('tbody');
table.appendChild(tBody);

// Add the data rows to the table body.
for (var i = 0; i < rowCount; i++) { // each row
  row = tBody.insertRow(-1);
  for (var j = 0; j < columnCount; j++) { // each column
    var cell = row.insertCell(-1);
    cell.setAttribute('data-label', columnHeadings[j].toUpperCase());
    var obj = data[i];
    cell.innerText = obj[columnHeadings[j]];
  }
}
```

```javascript
var table = $('<table>').appendTo('#data-list');
// Add the header row.
var header = $('<thead />').appendTo(table);
for (var i = 0; i < columnCount; i++) {
    $('<th />', { text: columnHeadings[i].toUpperCase() }).appendTo(header);
}
// Create table body.
var tBody = $('<tbody />').appendTo(table);
// Add the data rows to the table body.
for (var i = 0; i < rowCount; i++) { // each row
  var row = $('<tr />').appendTo(tBody);
  for (var j = 0; j < columnCount; j++) { // each column
      var obj = data[i];
    $('<td />', {
        text: obj[columnHeadings[j]]
    }).attr('data-label', columnHeadings[j].toUpperCase()).appendTo(row);
  }
}
```

Jquery can help you with a lot of stuff

Jquery comes in handy with -

- Finding things on HTML documents and then changing their content.

- Defining event listeners for various elements of your webpage and then reacting according to a particular action

- Communicate with backend applications and then update the page's content accordingly.

- Create striking visual effects and better UX by combining listeners, animations and stuff.

Specializes in manipulating web pages, animations, Ajax calls and handling events

Jquery should be used when -

- Creating simple web pages with striking visual effects and awesome UX

- Creating simple web application with simple data manipulation required.

- Create animations in web pages - simple or complex.

- Create custom libraries/components/plugins of your own which can be used by any websites.

Jquery facts that no one tells you

- It is easy to use and learn and almost all the functionalities of modern Javascript frameworks can be replicated in Jquery

- There are thousands of Jquery plugins already present and stable which you can directly use in your application. They are often lightweight and hence don't affect the speed of your website.

- It's much SEO friendly in comparison to modern Javascript frameworks.

- Its compatible with all the browsers

- Lot of resources to help you, if you are struck.

Next Steps -

1) Creating your Jquery "hello world" program