

Web Engineering Assignment 2

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1. a. HTTP-based communication between client and server is synchronous because it cannot respond to new request if it is processing any other request. When a server gets a request then it starts processing it until it fulfill the request. Most of the server use thread to handle multiple request at a time. But modern server side technology like node.js are using asynchronous server communication model using event loop.

1. b. HypertextTransferProtocal is stateless protocol. It doesn't store any information about the request. Each request is treated as new request by the server.

2. External JavaScript file can be included using script tag with its src attribute value to the location of the JavaScript file.

a)

```
<script src="location/of/external/javascript"></script>
```

b)

JavaScript code can be embeded inside <head> or<body> Tag. It is recommended to put JavaScript tag and JavaScript includes tag at the bottom of the <body> tag.

3.1 The difference between classic web application and Ajax web application is how the server handles the incoming request. In classic web application for every request server generates new page and server to the client. And In client all the page will be refreshed to show the new information.The process of this request and response in classic web application is synchronous. Where as in Ajax based application the client (browser) sends the ajax request using asynchronous method and server sends back only the data requested by client in the form of XML or JSON. And the browser shows the new information to the user without refreshing the browser. In ajax based web application user feels like they are using native application instead of web application.

3.2 One of the most important and well used ajax website is google map. When ever map is dragged or zoomed, the browser sends ajax request to the server and map get updated without refreshing the page.

4. Class Diagram of Store Pub

