

**A Review : Digital Bulletin & Messaging Framework**<sup>1</sup>pooja Kumari, <sup>2</sup>himanshu Sirohia<sup>1</sup>B.Tech Scholar, <sup>2</sup>Assistant Professor<sup>1,2</sup>Electronics & Communication Engineering Dept.<sup>1,2</sup>Jayoti Vidyapeeth Women's University, Jaipur.**Email:** - [Poojashah4395@gmail.com](mailto:Poojashah4395@gmail.com), [himanshusirohia@gmail.com](mailto:himanshusirohia@gmail.com)**Abstract**

A bulletin board system, or BBS, is a computer system running software that allows users to connect and log into the system using a terminal program. Once logged in, a user can perform functions such as reading news and bulletins, and exchanging messages with other users, either through instant emails, public message boards, or sometimes via direct chatting. Ward Christensen coined the term "bulletin board system" as a reference to the traditional cork-and-pin bulletin board often found in entrances of supermarkets, schools, libraries or other public areas where people can post messages, advertisements, or community news. By "computerizing" this method of communications, the name of the first BBS system was born. Today Bulletin Board & Mailing systems are typically integrated with websites, which dynamically upload and read content from servers, providing a centralized portal for storage & management of both Users & Messaging Data With the availability of smart-phones, tablets, light-weight notebooks, laptops; combined with a workstation which is luxury almost anyone can afford, integrating a digital messaging system with a website which can be accessed via any network connected device greatly expands the idea of accessing information on the go & when required.

**Keywords:** WAMP, Sublime, HTML5, jQuery1.10.1, MySQL, PHP, Bootstrap, Ajax.**1. Introduction**

A web portal is most often one specially-designed Web page at a website which brings information together from diverse sources in a uniform way. Usually, each information source gets its dedicated area on the page for displaying information. In the late 1990s the web portal was a web IT buzzword. After the proliferation of web browsers in the late-1990s many companies tried to build or acquire a portal to attempt to obtain a share of an Internet market. The web portal gained special attention because it was, for many users, the starting point of their web browsing if it was set as their home page. The Digital Bulletin is the section which is meant to be regularly updated by every professor in the department.

**2. Literature Survey**

The Digital Bulletin is the section which is meant to be regularly updated by every professor in the department. Bulletin is a 160 character text post where Professors select a semester and update the students about the current running topics in the classroom like Finished Chapters or Upcoming Tests. A framework is a standardized set of concepts, practices and criteria for dealing with a common type of problem, which can be used as a reference to help us approach and resolve new problems of a similar nature. Broadcast is a powerful announcement tool available to the Head of Department. Broadcast

allows the HOD to speak to various audiences in the department, namely everyone in the department a selected semester of same department and one or more selected students of same semester.

### 3. Software Development Model

Agile development model is also a type of Incremental model. Software is developed in incremental, rapid cycles. This results in small incremental releases with each release building on previous functionality. Each release is thoroughly tested to ensure software quality is maintained. It is used for time critical applications. When new changes are needed to be implemented the agile process is used. The freedom agile gives to change is very important. New changes can be implemented at very little cost because of the frequency of new increments that are produced. There are various methodologies that are collectively known as agile, as they promote the values of the agile manifesto and they are consistent with the given principles. Unlike the waterfall model in agile model very limited planning is required to get started with the project. Agile assumes that the end users' needs are ever changing in a dynamic business and IT world. Changes can be discussed and features can be newly affected or removed based on feedback. This effectively gives the customer the finished system they want or need.

### 4. Software Description

**Front End:** -the purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a mark-up language. JQuery is a cross-platform JavaScript library designed to simplify the client-side scripting of HTML. JQuery also provides capabilities for developers to create plug-ins on top of the JavaScript library. Ajax is a group of interrelated Web development techniques used on the client-side to create asynchronous Web applications. With Ajax, Web applications can send data to, and retrieve data from, a server asynchronously (in the background) without interfering with the display and behavior of the existing page. Data can be retrieved using the XMLHttpRequest object.

**Back End:** -XAMPP is free and open source cross-platform server solution stack package, consisting mainly Apache HTTP Server, MySQL database, and interpreters for scripts written in the PHP and Perl programming language. WAMP is a generic term for when we have Apache, MySQL, and PHP running on a Windows machine. Windows acts as the operating system, Apache handles the http requests sent to and from the clients (web browsers), MySQL holds and organizes data for your website in databases, and PHP acts as the 'glue' that makes it all into a dynamic website adding real programming. Apache will call PHP; PHP will run various programs written in PHP that will spit out HTML.

### 5. System development architecture

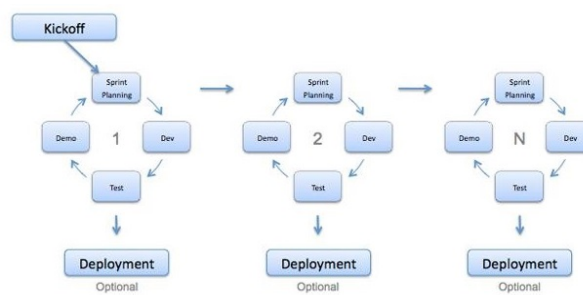


Fig. 1: Software development architecture

## **6. Conclusion**

Thought this once logged in, a user can perform functions such as reading news and bulletins, and exchanging messages with other users, either through instant emails, public message boards, or sometimes via direct chatting. Bulletin Board & Mailing systems are typically integrated with websites, which dynamically upload and read content from servers, providing a centralized portal for storage & management of both Users & Messaging Data. So the digital bulletins are very useful for such type of broadcasting.

## **7. Future Scope**

In today's digital world, as one would expect from a Technical University, the university Portal is an outstanding execution of delivering academic details to the students and making announcement to the University audience. It will be great platform to deliver the message individually and in this we can also add the feedback functionality through which every student can give the feedback online.

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