News House - A Sublime Horizontal Portal

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*Abstract:-*Ensuring web services for smart phones is the recent important topic, this initiated because of the multiple uses of smart phone, today's modern day user uses it for mobile banking, email, searching location and data. Smart phones are sophisticated in terms of processing speed, memory, an embedded camera, sensors and same time parallel state of art in wireless network and software web technologies. This project will guide our work in the current generation platform technologies and standards such as Android OS and REST for News Portal.

It is an accomplished news portal displaying multiple news from across the nation in a collaborating manner at a single location. It focuses in bringing more ease for gathering news about any topic from across the nation. Each newspaper and news channel displays the news on their websites. So an individual needs to visit multiple websites if the individual requires knowledge about any particular news in any language the user wants. So this portal focuses in bringing multiple news of multiple languages grouped together under one platform by providing web services. Multiple types of news right from breaking news to sports news are roofed over here. Knowledge about daily horoscope along with updated stock prices is gained in this single portal.

Mobile equipments (Smart phones, PDA, Tablets), Mobile web services and wireless communications, by the year 2020 will play a major role in all conditions of our lives. It is used to develop access to meaningful and required data and content through mobile web services. Most of the issues of mobile web services can be resolved by concentrating on the dispersed nature and remote disposition of mobile applications. One of the most likely way to develop viable web services for mobile devices is to add more intelligence to the web services.

Keywords—*Android, SOAP, REST, WAMP, XAMPP, PHP, JSON*

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I.   INTRODUCTION

Now a days there are multiple applications in the android market. Each application seems to accomplish our particular need. Right from online shopping to education, the android market has everything that we need. But the user needs to download multiple applications, each application relating to a particular need that needs to be accomplished. This indeed turns out to be extremely dull at the user end as the user has to manage multiple applications to get each of his requirement completed. So would not it be great if we had a multi-purpose application that would serve a great purpose by coalescence of multiple features together in a single application? This will lead to the end user downloading a single application and using its multi-featured purpose in order to get his several needs accomplished.

Our application will be useful to the people who are involved in reading newspapers in different languages. It will have multiple features right from multi-linguistic newspapers to job portal. People can accomplish their multiple interests by just using a single application.

Each newspaper and news channel displays the news on their website. So an individual has to visit various websites if the user requires knowledge about any current news in any language the user wants. So this portal focuses on bringing all the news of multiple languages grouped together under one banner by providing web services. Variety of news ranging from breaking news to cricket news are covered in this portal. Information regarding daily horoscope as well as latest stock price is also shown in this portal.

II.   HOW DO THEY WORK?

Figure 1: Block Diagram

Figure 1 displays an android application which will work on web based services. Extremely changing and informative, it will be fun for the end user. The use of animations and pictures in a digital machine will ensure that the user is hooked onto the news portal for longer amount of time. Mobile web service provisioning allows programmers to utilise, learn, publish and perform web services in wireless ecosystem using established protocols and without disrupting basic purpose of smart phone. Mobile web service supplies can be distinguished based on architecture as SOA (Service Oriented Architecture) or SOAP based Mobile web service provisioning and ROA (Resource Oriented Architecture) or REST based Mobile web service provisioning.

SOAP is structured for a particular network environment where modern servers are brought into use, but REST is substitute to

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SOAP for the fixed network environment and mobile network environment and resource controlled devices. Representational State Transfer (REST) is also called Resource Oriented Architecture (ROA), it is an approach of software architecture that depends on the fact that any resource (such as Web services) can be recognized by their URLs.

REST is basically used for publishing interactive documents but now it is becoming a common scheme for intellection of Web services on secure network as well as a mobile network. REST supports a different viewpoint than SOAP by focusing on data rather than focusing on operations and to provide resource friendly substitute to SOAP. REST oriented web services are strongly jointed with the HTTP protocol but in some way or the other we bargain their flexibility and motility . REST-ful Web services obtained more attention from the Web association because of its easiness and scalability. Large Web service providers such as Google, Amazon, Yahoo preferred the REST-ful Web services approach in their provided Web services. REST-ful Web services make use of rare URIs for recognition of resources. These resources are approached and changed using a set of standard methods like GET, POST, PUT and DELETE.

REST dependent web service provisioning architecture has a total of two composition: Web Service Requestor which is also called as Client and Web Service Provider which is also called as the Host. Over here, web client precisely sends HTTP request to the host and host explains the request and web servlet generates response, and then response sends back to the client by using the same protocol.

III.   METHODOLOGY

On downloading the application, initially we ask the naive user to sign up with using Facebook or through News Portals Registration system. This gives us the permission to approach users identification. Also once after the user signs up ,we can gather all his /her data on server for anytime access. The users are given few options to select form .The user may add up a few options of his/her choice. This options may include various departments for news like Entertainment, World etc.

The user then is made able to scroll to News and blogs which have options such as "LIKE", "DISLIKE" ,"FAKE", "TRUE". According to his/her feedback, the algorithm will get more and more data using which it can give better proposals to other users.

The application User Interface is developed with the help Android Studio (Development Module which is Provided by GOOGLE). For the backend storage, we have made into use WAMP/XAMPP Server and MySQL. All the characteristics along with News/blogs will be stored in replica database. In order to obtain the News/Articles from server we will use PHP with JSON. Each stored Article and News is induced using content based filtering genetic algorithm. The last step after filtering will be Verified and the final News. Our system will evaluate and analyse lots of articles and human interactions to deliver top of stories that will be of utmost importance.
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IV.   GENETIC ALGORITHM PROCEDURE

1. Choose the starting quantity of articles/blogs.
2. Analyze the quality of each article and blog amongst that population.
3. Continue on this generation until the end that is the time limit.
4. Order the articles based upon its best fit.
5. Analyze the distinct fitness of new articles.
6. Swap least-fit population with the new articles.

V.   ANALYSIS

An in depth analysis and evaluation is made to evaluate all necessities in depth, identify and solve possible problems. The analysis also provides solutions to queries like which tools and technologies should be made into use, what the project schedule can be and how better budget can be allocated.

Figure 2 describes the activity diagram of the given system. Activity diagram is generally a flow chart to describe the flow from one particular activity to other activity. This activity can be represented as an operation.

Figure 3 describes the use case diagram of the given system. Use case diagrams has actors, use cases and the relationship between them. The diagram is used to design the system of an application. Just one use case diagram gathers a particular purpose of a system. The main importance of use case diagram is to gather the dynamic part of a system.
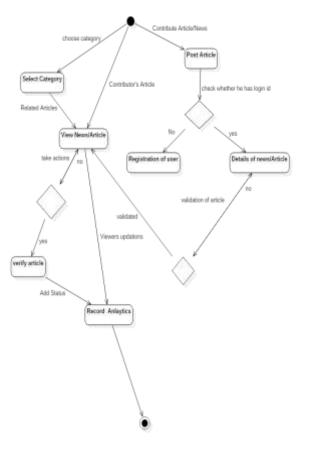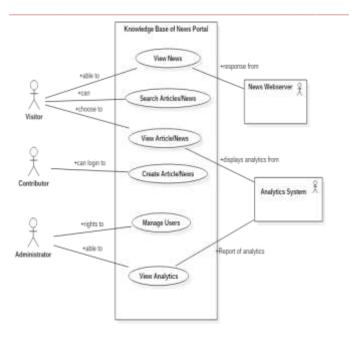

Figure 2: Activity Diagram

Figure 3: Use Case Diagram

The particular information base of the news portal has sections like view news, search news, view articles, create articles, manage users . The visitor is made able to perform three functions; it is able to view the news, it can search the news, it can choose to view the given articles. The contributor can login to the system so as to generate the news articles. The administrator plays a very important role; it has the authority to manage the users and it is also able to view the analytics. There is a news web server that obtains the responses from the news. The analytics system then shows the analytics from the news articles.

VI.   CONCLUSION

In this paper, we make a short review of the current system regarding news portals. We review their existing features. The issues of the existing system are also taken into consideration. We have provided an idea as to how the proposed system will be used.

In future, our work will focus on the in depth study in the field of web service based news portals, with the main focus of terminating the current condition of the field and making further advancement in the field of web service established news portals.

VII.   REFERENCES

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