Students smart platform using android web scraping

M.Balamurugan[1], S.Bharani[2], M.Naveen[2], L.Nandhakumar[2]

[1]Head of the Department, Department of Computer Science and Engineering, The Kavery Engineering College, Mecheri Salem-636453.

[2]BE computer Science and Engineering, The Kavery Engineering College, Mecheri Salem-636453.

ABSTRACT

An education system in India has become so advanced in last decade due to development of the technology. In this paper we presented by educational data's for school and college students. In this app linked a educational all type of media files and documents. Directly connected to under the app for online News articles, e-government service applications and Job carriers &online course .mobile learning is next generation of e-learning that leads attractive way of knowledge delivery teaching and learing process. With development of this android application the student proffered to use mobile devices technogly supported by educational tool. Android is a software platform and operating system for mobile device.

The mobile application development was done by combining native mobile technology and web technology using Web View API. First similarity estimation between news messages is performed using semantic similarity metric based on Word Net. Availability of client programs on mobile devices that mobile devices by using Web Services.

Keywords: *Technogly Supported By Educational Tool, Web View API.*

INTRODUCTION

Nowadays, mobile device have become a way of life for students and public. Learning Management System (LMS) enables rich interaction between the lecturer and the student by providing useful features such as send/return assignment mechanism, peers discussion platform, immediate feedback on the online quizzes, and timeless access to the learning materials. Assignment on server broadcast it is easily accessible to student. One of the main issues in mobile application development is that mobile platform is highly fragmented and it is expensive to support multiple platforms with multiple version and variants4.WebView API enables developer to reap the benefit of web application in native mobile programming because not only allows applications to display web content, but it also enables applications to interact with the web content itself8.The algorithm has two main stages. At first stage, we preprocess news data by configuring similarity matrix. We use ontology to estimate similarity .between news sentences based on sense and context. At the second stage, we perform clustering and find out how news could be clustered [1].

Smart phones are based on operating system like IOS and android. it is open source and free ware. Android is a modern mobile platform that is designed to be truly open source. Android applications can use advanced level of hardware and software, as well as local and server data, exposed through the platform to bring innovation and value to consumers. Open source platform needs strong and rigorous security architecture to provide security. Android architecture is designed with keep ease of development ability for developers [2].

Security controls have designed to minimize the load on developers. Developers have to simply work on versatile security controls. Computers are now replaced by compact smart phones fit into

---

Author for correspondence:

Department of Computer Science and Engineering, The Kavery Engineering College, Mecheri Salem-636453

89

Balamurugan M et al., Inter. J. Int. Adv. & Res. In Engg. Comp., Vol.–08(01) 2020 [88-92]

the packet carried out anywhere. Mobile learning is next generation of e-learning that leads attractive way of knowledge delivery teaching and learning process. In this app linked a educational all type of media files and documents. Directly connected to under the app for online News articles, e-government service applications and Job carriers &online course [3].

RELATED WORKS

The available technological options for developing multi-platform mobile applications are web-based apps and hybrid apps. Hybrid apps, though also relying on standardized web technologies, are bundled within a native app "container", which serves as a bridge to access device hardware and functions Public, students, article, carrier using the app [4]. There are several hybrid multi-platform mobile application that have been developed. These frameworks let a developer use one programming language to build a mobile application that support multiple different platforms at once. There is also some web framework such as Query Mobile and Sencha Touch that enables a web developer to create a mobile website with a similar design as mobile platform's native interface [5].

System model

From the performance perspective, a hybrid mobile application using framework such as Phone gap had been known to be fast and giving smooth user interaction comparable with a native application. In comparison, website applications give slower performance due to the fact that a Web app has to be loaded via the Internet. This phenomenon can be limited by keeping an offline copy of the page [6-10].

PROPOSED SYSTEM

The source multiple places at once so you can from your own options. The two or more application are together. An official public or private job and specific requirements are direct web scraping. This collection of application are maintained [11, 13].

Advantages

1. Better accessibility of public services.
2. More transparency and accountability.
3. These application provide the latest information about the world..
4. Easy for the students to search the appropriate study materials

Description

Mobile applications are becoming a preferred delivery method for the government sector and contributing to more convenient and timely services to citizens. This mobile applications used for the government services and online application registrations (mG-App). The findings of this research have provided theoretical contributions to

LITERATURE SURVEY

Mobile applications in government services (mg App) from user's perspectives

Author : Sujeet KumarSharmaa,ali al badi,
Year : 2018

90

Balamurugan M et al., Inter. J. Int. Adv. & Res. In Engg. Comp., Vol.–08(01) 2020 [88-92]

the existing research on mG-App and practical implications to decision-makers involved in the development and implementation of mG-App.

Recruitment and job search application

Author : Firas Layth Khaleel
Year : 2016

Description

Web based online applications become the most useful tools to access the information about job applicants and job applications are accessible at the press of a button. The progress of Internet and World Wide Web technology brings the traditional recruitment process to web based recruitment. A recruitment and job search application system allow candidates to search for jobs anywhere anytime, helping people to find suitable work relevant to their needs. This study focused on how to recruit the job seeker through the internet, where it is expensive for job seekers to find jobs in the traditional way. It is also the problem for the employers to find suitable candidates regardless of gender, location, or nationality.

METHODOLOGY

The mobile application development approach used in this study is a combination of native mobile programming (in this case Android) and mobile web programming without using any predefined hybrid mobile framework such as Phone Gap. We use the native mobile programming to create a container for rendering the web page which contain the main business logic using a component called Web View. The native mobile programming is also useful to access many native functionality such as push notification which is a platform-specific technology and to store required data on the client side.

Web view

Web View is an application programming interface (API) which allow native application to process URL or HTML files and, as a result, render a web page within the application itself without switching into the default internet browser. Web View is a basic component for internet browser application and by using Web View, the native application will behave just like basic internet browser. Usually a Web View is coupled with the platform's default web engine, therefore an update for the web engine will affect the Web View's capability and any application that utilize the Web View API.
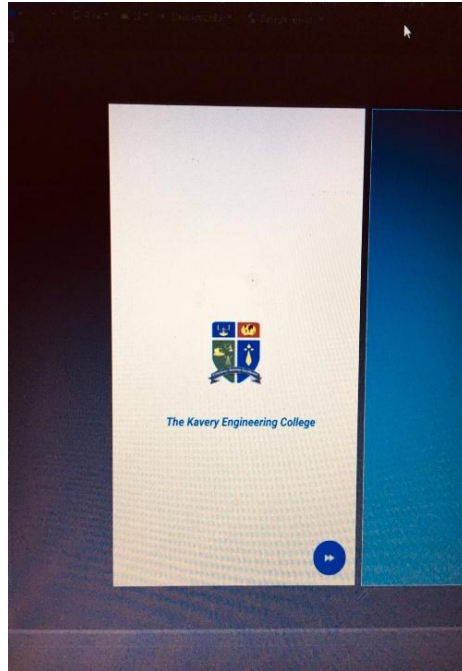
Mobile web

Mobile web is essentially an ordinary web application which is designed with a responsive user interface. A responsive user interface means that it can handle various small window resolutions and resize the application design accordingly.
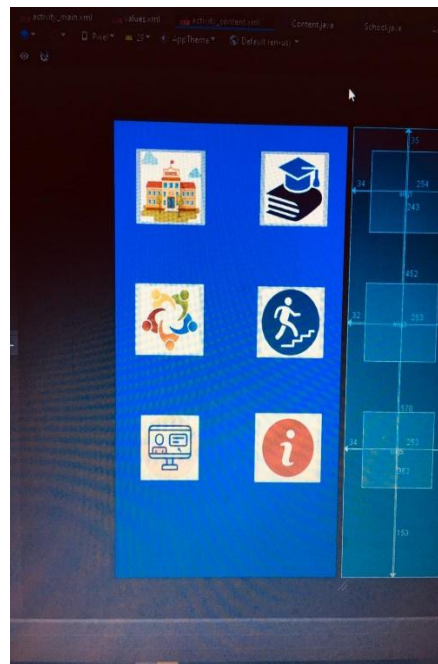
RESULT AND DISCUSSION
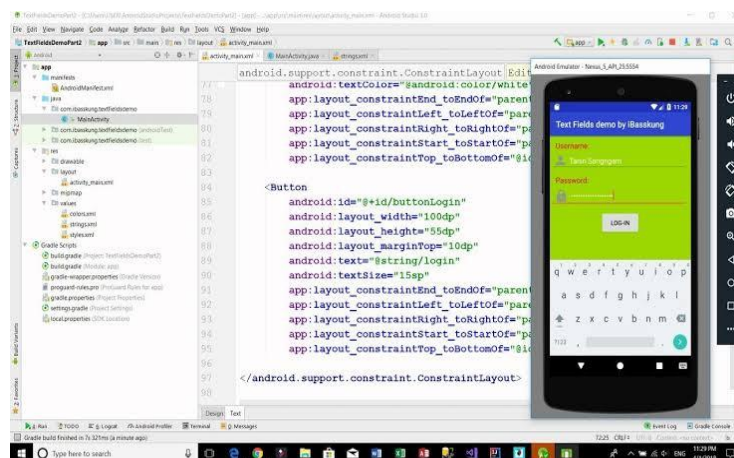
Android

Home page

Education

CONCLUSION

Our approach in mobile application development which combines native mobile programming and mobile web by utilizing Web API has its own upside and downside. On the upside, mobile web technology is truly versatile and correctly rendered across multi-platform as long as it is used for online viewing and this approach still let the developer use any native functionality while at the same time utilizing the mobile web's versatility. This approach does not only let developer to get the best from the world of native mobile programming and the world of mobile

web programming but also simplifying the code base management because all of business logic is gathered in a single code base. When multiple business unit exist in a single mobile application, each business unit can have their own managed business logic code base. Web View approach also let the business logic developer to flexibly update their content without having the need to update the mobile platform's store application. On the downside, the developer still needs to manage multiple code-base of the native side of the application which depends on how many mobile platform they target. For application performance, this research shows that Web View application and Hybrid application is smooth enough compared to the native mobile application, this result is in accordance with other research which states that while web technology stack has not achieved the level of performance that can be attained with native code, it is getting close.

REFERENCES

[1]. Shivam, Ranjana sharma, Apps for All: Education app Integration, 2016.

[2]. Amita Dhale, Madhav Mistry, TusharZore, A Survey on "SMART CONNECT" An Android and based web Application for college management system, 2017.

[3]. Firas Layth Khaleel, Recruitment and Job Search Application, 2018.

[4]. Sujeet KumarSharmaa, Ali al badi, Mobile applications in government services (mG-App) from user's perspectivesctive, 2018.

[5]. H. Heitkötter, S. Hanschke and T. A. Majchrzak, "Comparing Cross-platform Development Approaches for Mobile Applications," in Proceedings of the 8th International Conference on Web Information Systems and Technologies (WEBIST), Porto, Portugal, 2012.

[6]. T. Luo, H. Hao, W. Du, Y. Wang and H. Yin, "Attacks on WebView in the Android System," 27th Annual Computer Security Application Conference, 2011, 343-352.

[7]. A. Charland and B. Leroux, "Mobile application development: web vs. native," Communications of the ACM, 54(5), 2011, 49-53.

[8]. 8. A. Nitze and A. Schmietendorf, "Cross-Platform Mobile Application Development," in User Conference for Software Quality, Test and Innovation, 2013.

[9]. N. Cavus and S. Kanbul, "Designation of Web 2.0 tools expected by the students on technology-based learning environment," Procedia Social and Behavioral Sciences 2, 2010, 5824–5829.

[10]. J. Penga, D. Jianga and X. Zhanga, "Design and implement a knowledge management system to support web-based learning in higher education," Procedia Computer Science, 22, 2013, 95 – 103.

[11]. N. Cavus, "Investigating mobile devices and LMS integration in higher education: Student perspectives," Procedia Computer Science 3, 2011, 1469–1474.

[12]. A. L. Wasserman, "Software Engineering Issues for Mobile Application Development," FoSER '10 Proceedings of the FSE/SDP workshop on Future of software engineering research, 2010, 397-400.

[13]. J. Perchat, M. Desertot and S. Lecomte, "Component Based Framework to Create Mobile Cross-platform Applications," Procedia Computer Science 19, 2013, 1004 – 1011.