

**Report**  
**2<sup>nd</sup> National Seminar and Workshop on**  
**Advances in Open Source Mobile Technologies**  
**SABAR-AOSMT-2014**  
**April 24-25, 2014**



**Department of Computer Engineering and Information Technology, Sabar Institute of Technology for Girls, Gujarat** in association with Gujarat Technological University, Special Interest Group – Wireless Networks, Division IV & Ahmedabad Chapter Computer Society of India, Gujarat Electronics and Software Industry Association (GESIA) and Associated Chambers of Commerce and Industry of India (ASSOCHAM) Regional Office, Ahmedabad organized the **2<sup>nd</sup> National Seminar and Workshop on Advances in Open Source Mobile Technologies (SABAR-AOSMT-2014)** supported by GTU Open Source

Technology Club and GTU Mobile Wireless Technology Club (MWTC) and technically collaborated by Xduce Technologies and ORACLE Workforce Development Program. Open source Technologies and Computing Applications have Contributed unprecedented applications from commercial to industrial and Entertainment requirements in this computing era. Open Sources Technologies have boosted various apps and devices like Joomla!, Wordpress, Zend, Facebook, iPhone etc. and millions of mobile devices in more than 190 countries around the world.

**Day 1 : Inaugural Session**



The Chief Guest of Inaugural Session **Mr. K R Gururaja Rao**, Chairman and Managing Director, Gujarat Informatics Limited, Gujarat inaugurated the Second National Seminar by lighting the lamps along with other dignitaries present on the occasion. Speaking as Chief Guest he congratulated organizers for selecting such relevant topic for deliberation in the national Seminar. He also released the Book titled “**Advances in Open Source Mobile Technologies**” which includes 26 accepted papers submitted by different authors. Mr. Rao also quoted that success means “I can do” and deterministic success means “I will do”.



**Dr Neeta Shah**, Director – e-Governance, Gujarat Informatics Limited, Gujarat speaking as Guest of Honour of the session discussed in deep about the Mobile Technology Advancements during last two decades. Dr. Shah also shared her own experiences on the front end and back ends technological usage and the problems connected there with. She has also discussed about “BYOD- Bring Your Own Device”. Dr. Shah asked the participants to actively involve themselves in the Research in everchanging of technology.



**Prof Bipin V Mehta**, Vice President, Computer Society of India and speaking as of Guest-of-Honour of Session, talked about implications about professional Societies and explained the activities and role of Computer Society of India. He also talked about increasing the number of such activities for students and also proposed a CSI student branch at Sabar Institute of Technology for Girls.



**Mr. Pankaj Shah**, President of Gujarat Electronic and Software Industry Association (GESIA) has discussed on women empowerment and focused on the role of Industries to be played in Engineering Education. **Mr. Sandeep Vasant**, Hon. Secretary CSI Ahmedabad Chapter asked the participants to indulge themselves in Research domains in areas on open source mobile technologies.



**Shri Manish Patel**, Managing Trustee, Sabar Institute of Technology for Girls welcomed the guests and gave the opening remarks for the Second National Seminar. **Mr. Amit Joshi**, Organising Secretary expressed his heartfelt thanks to the dignitaries and all the participants for actively participating in the Second National Seminar and talked about key areas to be discussed during workshop. **Mr. Vinod Thummar**, Convener proposed the Vote of Thanks. The session was conducted by a IT 4<sup>th</sup> Sem Student **Shivani Trivedi**.



The Two Day Seminar focused on various key areas in Open Source Mobile Technologies. About 200 participants from Rajasthan, Madhya Pradesh and Gujarat participated in the workshop. Many viewers from different places in India viewed live webcast on the Seminar on the website [conference.sabareducation.org](http://conference.sabareducation.org).

## Day 1: Technical Session 1

**Invited Speaker : Mr. Hiranmay Mahanta, Director GTU Innovation Council, GTU**



Mr. Hiranmay Mahanta, threw light on various questions regarding technology and innovation in that technology and brightened our mind with his shared knowledge. He expressed Innovation as “Innovation is something that is applied to market or society to meet new upcoming demands of the people or existing market” He also shared that Innovation effects and affects not only the people but also the GDP of the country would be raised along leading to growth and development of the country worldwide.

He also quated examples like, TATA/Mahindra started 100 years back and now have come up with 30000 people as employees with total turnover of 1.4 billion dollars exclusive of tax . On the other hand an IT field application developer, a group of

55 people, who made an mobile application for better communication, i.e. WhatsApp, around 3 years ago, has sold it to other company (facebook) in 9 billion dollars. He also shared that facebook itself is a single known company that is responsible for US GDP which makes it equal to 68 countries GDP value.

**Invited Speaker : Mr. Darshan Panchal, Sr. Oracle Consultant, Xduce Technologies, Ahmedabad**



**Mr. Darshan Panchal** shared us with detailed knowledge on the features of Oracle 11g and also relevance with the previous version of Oracle (10g) features and their comparisons. He expressed features of 11g which includes Oracle Relational Database Management System which provides with better operating system , development tools , applications etc., Automatic Memory Management, Database information is shared by Oracle process, Program Global Area (PGA), Security issues and 11g provides options to make password case-sensitive by `SEC_CASE_SENSETIVE_LOGON=BOOLEAN` command.

It also includes High availability solution, made for stand-alone database, Install and configure oracle grid infrastructure, Components- instances, listener, services, disk groups etc., Automatically start the offline component, Transparent Tablespace Encryption, Data Compression for all applications, Deferred Statistics Publishing, Invisible Index, Data Recovery Advisor, Oracle Enterprise Manager and many more features against natural database.



## Day 1 - Technical Session 2

**Invited Speaker: Mr. Mahendra Sharma, Director and CTO, Niche Tech Solutions Pvt. Ltd.**



He described about why is Andriod getting more popular as compared to ios and ... with a rapid phase difference? He suggested it is so because of It is affordable in terms of price and maintenance, Limited hardware requirements, It is considered to be home of many required applications, Compatible nature, As it assists writing of programs easily, increased with number of programmers in industry, Industry job trend is more in the field of Andriod. He quoted an example, let us consider an app “Google Analytics Integration” on Andriod store . This application is useful in finding the person’s information who had interfered with the proper working of your device along with which device it has used to do so.

**Invited Speaker: Ms. Avani Makwara, Project Manager, InfoStretch, Ahmedabad.**



“Work with TIME, work with TREND”. Nowadays everything is getting dependent on the technology. The more smaller the device, the better is its usage and success. She shared the use of mobile in retail business : Pay bill by phone, QR CODE usage, E-commerce, Electrovibration, Speech to speech translation, Increased internet connectivity. She also suggested some tips including Using your body as input surface, Control your smartphone using your mind, Augmented reality and devices like Glasses, health trackers, watches, gears etc. She also shared that A significant portion of your smartphone is being connected with any one of the above mentioned device - Cars with mobile, Tablets for educational world, Google glass and e-readers.

## Day 1 – Presentation Sessions 1 & 2

**Session Chairs : Dr. Harshal Arolkar, Immd. Past Chairman, CSI Ahmedabad Chapter  
Dr. Chirag Thakkar, GEC, Bhavnagar, Gujarat**

In the paper presentation Session papers were presented on various themes including Open Source, Mobile Technologies, Wireless Networks and Manets.



## Day 2 : Technical Session 3

**Invited Speaker : Dr. H. B. Patel, Principal In charge, SPCE, Visnagar**



He discussed about three types of cloud based on development model : Public, Private, Hybrid and Community cloud. He also shared Services, characteristics and open issues for cloud including computing performance, reliability, economic goals (whether to buy a resource or rent it), compliance , and information security. He also discussed about Security concerns : Security data at client side by cryptography (provides encryption and integration) and remote auditing, Trusted third party (TTP), Non-trusted third party (Non-TTP) : Examples are venus, cloudzone, EPP and cloudseal, challenges and their Motivation.

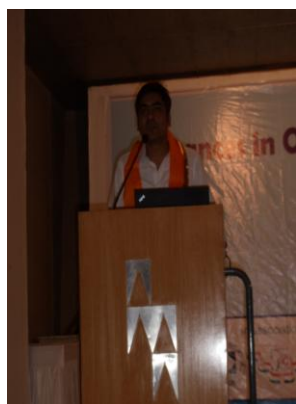
**Invited Speaker : Mr. Nitin Bawsay, Executive VP, Priya Soft Web Solutions, Ahmedabad**



He discussed about What is open source? - Software - A piece of Art or creation, Copyright - Protection of work, Copyleft – Permissions, Source code usage. He also explain how Responsive designs are made on the basis of User's experience and flexibility. Further he shared the mobile applications made for enterprise or consumer are of HTML or native or else the combination of both ,that is hybrid. He also explained that HTML has partial capability executed on multiple platforms where as Native has high capability being executed on single platform and Enterprise usually opt for hybrid technologies where as consumer go for either native or hybrid.

## Day 2 : Technical Session 4

**Invited Speaker: Mr. Jitesh Bhatia, Vodafone, Gujarat**



He shared that in India, only 35% of the Indians have access to the financial services including farmers and migrants. Hence, in order to deliver the facility of money transfer to the people easily without much procedures to be followed, Vodafone have introduced a M-pesa scheme. He also shared that it is useful for both literate as well as illiterate. The scheme do not require consumer to carry a bank account. The transaction would be carried out in Vodafone service centre or else in retailers shop with M-pesa account. M-pesa was influenced from Kenya, where strong rural presenc is being noticed, in he year of 2006. The people had to travel to distant places in order to withdraw the money they have earned. It not only caused the wastage of time but also lead to travel cost dues. He also explained the technical specifications and Characteristics of M-pesa launched by Vodafone and its benefits which includes - B 2 C and Merchant model.





**Invited Speaker : Mr. Utpal Betai, Project Manager, Lets Nurture, Ahmedabad**



Mr. Utpal Betai, project manager in Lets Nurture, Ahmedabad, has talked on “Mobile has become Addict”. He has explained related to mobile health apps. He has given some information about Atlas. Atlas is a fitness tracker that identifies exercises & evaluates forms. Atlas measures the success. At the last of speech, he told “If the plan doesn’t work, change the plan not goal.” He also conveyed his regards to the organizers for inviting him.

**Invited Speaker: Mr. Nitin Padahria, In charge – Project ILDC, IndiaNIC**



He shared that in today’s world, the usage of mobile devices is increasing with large phase. He also shared that - The universities have shifted from migratory books to digital books, Youtube stands 2<sup>nd</sup> in search engine, Internet have 2.5 billion pieces of content which is updated daily, In the field of sale of devices, Softwares like “Summly”, “parse”, “LinkedIn” etc were sold at exciting prices in the industrial market. He stated Mobile as- Faster backbone of network infrastructure, It’s rapid advance in hardware parts, It’s simply a trend or fashion. He also discussed about social media and Mobility in future.

## Day 2: Valedictory Session

In the valedictory Session of the Second National Seminar held on 25.4.2014.



**Mr. Ravi Saxena** (IAS, Retd) and Founder RISE ( Removing Ignorance for Social Empowerment) Foundation speaking as the Chief Guest of the session congratulated the organizers for selecting a very contemporary theme for the workshop. Mr. Saxena also discussed that upcoming mobile technology will be far more user friendly than the current technologies in the market and also the role of e-governance in mobile technologies. He also shared his vision of providing internet facilities to the illiterate rural masses through RISE.



**Prof. R P Soni**, Regional Vice President, Region III, CSI was the Guest of Honour of the session. He shared his views about the open source movement and asked the participants to use open source operating systems to run their laptops. He also discussed the opportunities in the areas of Open Source Mobile technologies.



**Dr. Nilesh Modi** Chairman CSI Ahmedabad Chapter discussed about the upcoming of CSI and its Ahmedabad Chapter and discussed the activities being organized by CSI. **Mr. Amit Joshi**, Organising Secretary presented two days detailed technical session reports and the recommendations of the Workshop. **Dr. Chirag Thakkar**, GEC, Bhavnagar shared his views on the strengthening of Open Source Technology in last many years. **Mr. Mignesh Parekh**, Sr. Consultant Gesia discussed about the role of GESIA and Women Empowerment. Mr. Nisarg Pathak, State Student Coordinator Gujarat asked the participants to participate in more of events of such kind..**Dr. M S Deora**, Welcomed the dignitaries, guests and Participants. **Mr. Amit Joshi**, Organising Secretary proposed the vote of thanks. The session was conducted by **Ms. Zalak Patel**.



The following recommendations have been emerged out after deliberations in the workshop:

1. The Open Soures Technology Users opnion needs to be given adequate weightage in defining the polices for Open Source Technology.
2. In Educational Institutions Open Source Technologies and Laboratories need to be developed.
3. Promotional Activities should be carried out to support open Source Technologies.
4. More and More such activities to be planned to increase the usage of Open Source Mobile Technology.

**Amit Joshi**  
Organising Secretary