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FACTORS RESPONSIBLE FOR THE POOR ATTENDANCE OF STUDENTS IN HIGHER EDUCATION WRT UNDERGRADUATE -COMMERCE COLLEGES IN MUMBAI	54 – 60
Dr. Khyati Vora, Dr. Kuldeep Sharma and Dr. Poonam Kakkad	
THE ROLE OF ICT IN HIGHER EDUCATION	61 – 66
Mohammed Zainuddin Khan	
A STUDY ON CORPORATE SOCIAL RESPONSIBILITY AND EXPECTED UPCOMING FUTURE TRENDS IN INDIA	67 – 72
Yash Kaur Saini	
IMPACT OF ICT IN HIGHER EDUCATION	73 – 76
Chetna Panchal	
ROLE OF EDUCATION IN WOMEN EMPOWERMENT	77 – 80
Akanksha S. Bhanji	
BUILDING THE BRIDGE TO BRIDGE THE GAP BETWEEN EDUCATION AND EMPLOYABILITY	81 – 83
Dr. Mitali Gupta	
ADVERTISING HYPE: INFLUENCE IN DISGUISE	84 – 88
Dr. Kajal Chheda	
FRAMEWORK AS A SERVICE – FOR API, APPLICATION LIBRARIES & TESTING APPLICATION FUNCTIONALITIES	89 – 90
Prof. Raveena Shetty, Prof. Himani Shukla and Prof. Mithilesh Chauhan	
A STUDY ON IMPACT OF INTERNSHIP ON REGULAR STUDIES OF UNDERGRADUATE STUDENTS	91 – 98
Goplani Mala, Gupta Akash and Sabhani Jewel	
A STUDY ON USE OF ELECTRONIC RESOURCES BY THE TEACHING FACULTY MEMBERS OF TATA INSTITUTE OF SOCIAL SCIENCES, MUMBAI	99 – 103
Sreelekshmi K S, Dr. Sumi Nijith, Naveena Suresh	
PERSONNEL MANAGEMENT A STUDY OF HRM FUNCTIONS A REVIEW	104 – 106
Prof. Dr. F. N. Mahajan	
ENVIRONMENTAL CLICKTIVISM: SOCIAL WARRIORS VS REAL WARRIORS	107 – 119
Varun Kumar Jain and Vibha Choudhari	
STUDY OF AUTONOMOUS COLLEGES AND ITS IMPACT ON POST GRADUATES STUDENTS OF MUMBAI UNIVERSITY”	120 – 122
Prof. Ravindra S. Netawate	
ACCREDITATION & ITS IMPACT IN ENHANCING INDUSTRY- ACADEMIA INTERFACE IN B-SCHOOLS	123 – 131
Sampurna Mehta and Pooja Tiwari	

**FRAMEWORK AS A SERVICE – FOR API, APPLICATION LIBRARIES & TESTING
APPLICATION FUNCTIONALITIES**

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ABSTRACT

Applications has become ubiquitous & pervasive in today's digital world. With social media platforms like Facebook, WhatsApp, Twitter trending the chartbuster of apps, followed by photo & media sharing platforms like Instagram grossing the eyes of everyone; application development has gained tremendous impetus in last decade. Not only desktop applications but also mobile apps are spear heading the application development league. From Android to iOS, from open source to subscription based licensed; apps of all saga are making a mark in human's daily life today. Albeit, demand for Android is much higher but even iOS & windows based apps are not far behind in this elite league of digital transformation. Businesses has also been fascinated with these trends of mobile computing thereby bringing their business an inch closer to consumer. From banking to finance, shopping to logistics, healthcare to fitness everything, almost "everything" is now within the hands of the masses at their fingertips. With such a huge market, tremendous demand of apps & leveraging customer experience; quick & convenient delivery times is the need of the hour. To proportionate the demand of the masses, application delivery also leveraged the concept of using framework as a service for API connectivity & using cloud based application libraries for faster development of the application code. Although, still in its infancy stage but already started creating an impact in the development arena of applications & its delivery.

Keywords: Framework, API, libraries, application delivery, application development, devops, platform, middleware, android, iOS, mobile apps, windows, open source.

1. INTRODUCTION

In this increasing world of mobile & ubiquitous computing, mobile-based apps are staggering in numbers on the market. There were 500 apps on the first iteration of Apple's App Store in 2008. There were 20 million registered iOS developers catering for the 500 million weekly visitors to the App Store alone. Although equivalent figures for Android are not known exactly but they are above iOS in terms of developer volumes. That's a lot of developer talent; but they are catering to one of the world's biggest consumer bases: app users. There are over five billion mobile users in the world, with global internet penetration standing at 57%. There are over millions of app downloads on a daily basis while app development still sloths at hundreds. Web based applications are also gearing up pace in the league of digitization & enhancing customer experience through omni-channel touch points. With the advent of e-commerce, more & more businesses are turning to digital marketplace, which increases revenue, reduces CaPex (&OpEx) costs & improves customer experiences with efficient customer relationship management. To cater digital transformation needs, businesses are turning tides with application development for web-based market place & mobile based e-commerce applications. Both of this arena needs a distinct & distinguished set of workforce while skeleton structure remaining the same. Moreover, this digital journey is only successful if businesses are able to proportionate demand with supply on a timely & effective manner. These has been possible with the new DevOps model of development but still lacks the speed & convenient of application library, API connectivity & testing results.

PURPOSE STATEMENT:

To find an effective, efficient & rapid way of application development. This paper proposes one such method of quick, convenient & efficient practise of developing apps independent of any platform or form.

OBJECTIVES OF RESEARCH:

- To study existing method of application development.
- To study challenges with application development & delivery.
- To propose a suitable efficient & effective method of quick & convenient application delivery.

2. EXISTING APPLICATION DELIVERY FRAMEWORK & ITS CHALLENGES:

Application delivery currently uses a trivial model with development leading ahead of testing. Application developers write a set of code usually hundreds & thousands of lines with several function calls. These function calls are made to the library created within the application & available internally to that particular application only. These entire process of building a library first, then writing a code & making function calls for application