

Students Guide: Offline Android Aptitude Application

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ABSTRACT

The students appearing for placements and various other exams like GRE, GMAT, GATE prepare themselves by appearing for mock tests and searching for the study material from different websites. For this they require an internet connection, which is not possible to access everywhere. Today, the smart phones have replaced desktop PC's and laptops in many manners. There are offline android applications available for aptitude tests but there exists none that provides the test for all sections with random set of questions, timer for each test, tutorials, score calculation and maintaining statistics in one single application. This paper provides a comparison of the existing aptitude applications available in Android market along with the idea of developing an application that overcomes the flaws of the existing applications. This application has been developed within the framework of the current study that provides its users with a fast, effective and efficient learning environment, thanks to today's various mobile devices.

Keywords

Android, Aptitude, Test, Mobile Operating System.

1. INTRODUCTION

Today, it is seen that many people that prepare for their exams are studying in buses, in parks or in a cafe with a test book in their hands. The tests prepared via electronic exam systems, now, have been an alternative for those who prepare for their exams by using their personal computers or mobile devices. Connecting such services requires a computer and an internet access. In other words it is necessary that students must be in an environment which provides above mentioned conditions in order to access such electronic exam systems. Mobiles are an integral part of daily life. With time, customers are expecting best and very versatile applications in less time. It is big challenge to develop high performance mobile applications in this competitive market that would meet the expectation of customers. The advancement in mobile technology has improved everyone's life. Nowadays various mobile technologies as well as mobile phones compete in the market. The users use various applications in their day to day life to reduce the burden of work in some way or the other. One of the uses of mobile devices is "mobile learning", which can be defined as "all kinds of learning that do not take place in certain predetermined fixed places".^[1] The student appearing for placements and other engineering related entrance exams, have to prepare themselves in technical as well as non-technical areas. For this they have to accumulate study material from different sources. Also there are many mobile applications available that provide mock tests. But there is no application that provides all the sections under one roof. They also surf around internet for some tests for

practice. But due to some reasons like slow network or no network or many a times the website server may not respond due to server overload, users are refrained from appearing the test. One solution to this is to have an application in mobile for practicing test Offline.

With the number of smartphone users are increasing each day, there is an equal increase in the number of application developers for the same. According to the 2013 survey Android occupies 81.3% of the total market share.

Table 1. Total Android Market Share (2012-2013)^[6]

Global Smartphone Operating System Marketshare %	Q3 '12	Q3 '13
Android	75.0%	81.3%
Apple	15.6%	13.4%
Microsoft	2.1%	4.1%
BlackBerry	4.3%	1.0%
Others	3.0%	0.2%
Total	100.0%	100.0%

Android technology, being available freely for download, along with enhanced data storage (using SQLite framework) occupying less space leading to increasing number of users using android technology. By considering this, Android platform was chosen to develop this application.

2. RELATED WORK

The Pocket Aptitude App is rated in the top 5 aptitude applications in android market developed by Sindu Rajan and designed by Yalini Kumaraguru. Pocket Aptitude is a collection of 1000+ quantitative aptitude questions and word problems frequently asked in competitive examinations and placement papers. It is designed as a preparation tool for job aspirants and those waiting to crack CAT, XAT, MAT, GRE, GMAT, SAT, NTSE and various bank exams. People with an inclination towards mathematics can use this app to sharpen their IQ, test their aptitude skills and enrich their knowledge.^[2] This application has various fine points and flaws like it provides a good user interface but only

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