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Mobile Learning Apps: special reference to West Bengal Board of Secondary and Higher Secondary Council Examination

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Abstract: Mobile technology is highly demanded communicative media in the modern education system. The paper deals with mobile learning application especially on West Bengal Board of Secondary Education and Higher Secondary Council Education examination. It analyses Madhyamik Friend, Madhyamik preparation and suggestion, WebExam - Madhyamik and HS Suggestions by the android application. The present studies also cover available androids apps, and feature of those apps and try to find the best apps for the users.

Keywords: Android Application, Mobile Learning, Tech-education

I. INTRODUCTION

Education system growing fast, in the tech-education system students are more driven towards using a mobile phone with smart application for their every purposes of the education. A student always try to get access to any information from anywhere. Now learning is focus and completely shifted to eLearning based on e-platform. Mobile phones and its various feature-oriented applications, students can learn at their pace and take their time at understanding things, as everything is just a single click away. For this purpose, we try to find out detailed information about various Mobile Learning Apps related to Madhyamik Examination which conducted by West Bengal Board Secondary Education and Higher Secondary Examination by West Bengal Higher Secondary Council of Education.

II. OBJECTIVES

A. Main objectives of This Study are to

- 1) To find out existing mobile learning apps for WBBSE and WBCHSE.
- 2) To find out what types of features have existing on those mobile learning apps.
- 3) To find out what type of services are to be provided by them.

III. REVIEW OF LITERATURE

Macaluso and Hughes (2016) examined the impact of mobile applications or apps on student learning in an introduction to psychology course. They measured student learning based on the change in performance from pretest to posttest separately on labeling and multiple-choice items and then from a composite score. Ozan, Yamamoto and Demiry (2015) studied mobile learning applications are examined within the context like Supportive (Supplementary) Applications, Focused Applications, Indepth (deep) Applications and mobile learning platform. Bidin and Ziden (2013) highlighted in their paper the following aims like it provides a historical overview of mobile learning concept and evolution. They also discuss the mobile learning adoption and application in the education industry. Hsu and Ching (2013) research explored how educators with limited programming experiences learned to design mobile apps through peer support and instructor guidance. Educators were positive about the sense of community in this online course. Marwan, Madar and Fuad (2013) present the introduction of mobile learning technology among students at the Kolej Poly-Tech MARA (KPTM) especially by using a mobile phone. The results of the study, students are willing to use the mobile technology in learning process and they have a positive perception and awareness to mobile technologies and will use the elements in mobile technology in learning process to improve their performance and interest in learning. Mehdi-pour and Zerehkafi (2013) describe the current state of mobile learning, benefits, challenges, and it's barriers to support teaching and learning. Four key areas will be addressed in this paper like analysis of Mobile Learning, Differentiating E-Learning from Mobile Learning, Value and Benefits of Mobile Learning and Challenges and Barriers of Mobile Learning. Walker (2011) describes work-in-progress research

that examines the development of an Android “App” for a topic in a first year Statistics paper. The Android platform was chosen as Android devices are the top-selling mobile devices, outselling Apple iPods/iPhones/iPads. The paper briefly examines the literature relating to student engagement and the use of mobile devices in teaching, before describing the process of developing the app.

IV. METHODOLOGY

Our study considered only android based mobile learning application which is related to West Bengal Board Madhyamik and Higher Secondary Council of Examination. In this study we have collected all related information from Google Play Store. Here we does not cover Madhyamik English Quiz WBBSE learning application app because this app dealing English subject of West Bengal Board of Secondary Education only.

V. DATA ANALYSIS

A. Types of Apps Available

- 1) *Madhyamik Friend*: Madhyamik Examination is the first board examination of West Bengal Board of Secondary Education. This app is made according to the syllabus of West Bengal Board of Secondary Education (WBBSE). Students will get 1400 free question and answers to give exam and test your ability. This app effort is to reach all students and help them better by giving easy access to app reading. Instant exam and get score. It has also share madhyamik suggestion, question and answer, online reading, both offline and online examtest etc.



Image – 1: Home page of Madhyamik Friend Apps

B. Madhyamik Preparation and Suggestion

The application is for madhyamik students of WBBSE Board. The app is very helpful to 10 class students. Here students get lots of questions, answers, and model question paper every day. Here you can also get suggestion for madhyamik examination 2018. It has also given daily study materials, new suggestion and last minutes suggestion etc.



Image -2: Home page of Madhyamik preparation and suggestion Apps

C. WebExam

This WebExam Suggestion App is very much helpful for Indian Students, who will sit for West Bengal Board Madhyamik and Higher Secondary Examination on this application, all subjects' suggestion are available. These suggestions prepared by expert teachers. All the important questions for Madhyamik and Higher Secondary Exam, mentioned on this WebExam Suggestion App. WebExam is a trusted website from last five years and the website published Madhyamik and Higher Secondary Suggestion every year to help students. Now the website also available as Android App. Get all Madhyamik and HS Suggestion form this app. This new Android app is, easy to use and lightweight. All the features on this app are basic and anybody can easily use this WebExam Suggestion App. WebExam Support Team always beside students, to solve problems.



Image – 3: Home page of WebExam Apps

D. Chhaya

The official Chhaya App is designed to help you study, practice and test your preparation anytime anywhere. With more than 3 thousand solved problems, 7 thousand multiple choice questions (with hints), relevant videos and more.

The App is free of cost for students' benefits only. No content of the App should be copied, re-published, re-uploaded, re-used or kept under any paid service, neither typographically, nor electronically.



Image – 4: Home page of Chhaya Apps

E. Primary information

In the following table – 1 we have given the primary information regarding the above said apps.

Apps Information	Madhyamik Friend	Madhyamik preparation and suggestion	WebExam	Chhaya
Release Date	02-11-2017	07-12-2017	24-10-2017	09-02-2018
Installs	10,000 – 50,000 as on 02.01.2018	10,000 – 50,000 as on 12.02.2018	10,000 -50,000 as on 25.02.2018	50,000 – 100,000
Current Version	4.0	1.0	5.0	1.0.4
Requires android	4.0.3	4.0	4.4	4.2
Reviews Rating	4.6	4.5	4.3	4.3
Content Rating	3+	3+	3+	3+
Permission	Free	Free	Free	Free
Offered By	Wisdom Games India	Solution for all	WebExam	Chhaya Prakashani Pvt Ltd
Developer	Email wisdomgamesindia@gmail.com Privacy Policy Nadia District , West Bengal India	Email studytechnical81@gmail.com	Email support@webexam.in	Email capl.kolkata@gmail.com

Table - 1: Basic Information of the Apps

F. Features Information

Each app develops own infrastructural way. Here we gave in the following table – 2 about the features of the apps.

Apps Features	Madhyamik Friend	Madhyamik preparation and suggestion	WebExam Madhyamik & HS	Chhaya
Suggestions	√	√	√	
Solutions@Fingertips - Detailed solutions of Short Answer Type (SA)/ Long Answer Type (LA)/ harder problems of Physics, Chemistry, Mathematics and Biology that are directly connected to the books	√ (Short question/ Long question)	√ (Short question/ Long question)	√ (Short question/ Long question)	√
Assessments – An intelligent self-preparation tool that determines the weak points of your understanding over different chapters/units. Also prepares you with specific sets of applicable questions on several topics.	√			√
Online Tests – Test your preparation over different chapters/units or full syllabus with MCQ tests following various examination.	√			√
Track the Entrance – Get a detailed chapter and unit based Trend Analysis built on last two years' exams.				√
Concepts – Watch fitting videos from all around the world. These video lessons are based on various important topics of the syllabus, that will give you a clearer idea in such a way that you may fall in love with learning	√			√
Exam Alert – Get notifications about upcoming exam dates and form fill-up	√	√ (Daily Feed – Short & Long Question		√

		Update)		
Performance Report& Completed Tests – Your very own progress report from the tests conducted by the app	√			√
Notifications: Get the latest APP updates from here	√			√
Samadhan@Prashna-saathi: Classwise from V to X) Summative (1st, 2nd & 3rd Summatives) solutions are now at your fingertips. Just click the right option and get model answers to all the questions of English, Mathematics and Science/ EVS. Best scoring answers to each and every question are at your android based smart phone and that too fully free				√

Table – 2: Features Information

G. Findings

All the Mobile Learning Apps dealing with suggestions, question papers, model question, instant exam, and exam alert. But Chhaya learning apps is different from others because it has lots of features such as detailed solutions of Short Answer Type (SA)/ Long Answer Type (LA)/ harder problems of Physics, Chemistry, Mathematics and Biology that are directly connected to the books by Chhaya Prakasani Pvt. Ltd, also has Assignments, Samadhan@Prashna-saathi.

VI. CONCLUSION

In the smart application era, the mobile learning application more enrich to the students. Above said apps more attractive by online reading, online test, online alert, audio, video etc. From the above studies we found that several apps are available for the students to encourage their studies. But madhyamik friend and chhaya learning apps are some different from others because their features prove their own popularity.

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