

EDUCATIONAL APPLICATION DEVELOPMENT

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Imran Khan was born on December 5, 1978 in Khareda in Alwar, Rajasthan. When he was a student, he wanted to be a scientist. He completed graduation in 1999-2001 in Economics and English Literature and Public Administration. Later he did his post-graduation in English (2004) and Economics (2006). In 1999, he became a government school teacher after completing a two-year teaching course. He worked in Baran District for four years, before being transferred to a rural school in Jaton Ka Bas in Alwar District.

Problem behind innovation

In the era of social media, students are using their phones, tablets and computers to play games, watch videos, YouTube, and social media sites. Imran thought that it was possible to use this technology in education. He found that children learn easily by using technology in education. So, he decided to create interactive, engaging and entertaining lessons for students.

With no formal education in computers, he had to learn about computers from books and Google. In 2005 his younger brother, a B.Tech in computer science, left his books at home before moving to a job. Imran Khan used the books to learn how to create websites, fiddling with his computer and browsing through the internet. It was an eye opener – Imran Khan learned about the world of digital information technology. Later, he learnt to design and develop mobile apps based on inspiration from the District Collector Mr. Ashutosh AT Pednekar. Within weeks, he successfully designed his first mobile app in 2011, which was on General Science (Notes and Quizzes) for primary school children. Children's engagement was found to be encouraging and he recorded around 15 lakh installations because of its user-friendly and colourful features.

Innovation details

Imran Khan designs and develops apps voluntarily. His 80 apps mainly cover subjects related to the school curriculum. He has created apps for Primary and Secondary classes and for competitive exams. He has to his credit about 20 million users. According to the analytical reports, his apps are used not only in India, but in 50 countries. Some of his famous apps are Project Dishari, Alwar Shakti, Digital Mewat, General Science, Maternal Care, SSC Exam, Kids General Knowledge, etc. Presently there are over 4, 85,000 users for Dishari app, which was launched in 2017 for the benefit of the college students to help them prepare for competitive exams. The app also features news updates and job alerts. Imran provides a platform for subject wise online tests on a daily basis for competitive examinations. A total of 15 million test attempts have been recorded so far by Dishari users.

Imran Khan also created Digital Mewat, an app to help groups and volunteers at the grassroots level to propagate social reforms like stop the dowry tradition, encourage girl child education and extend educational support to potential students.

His latest creation is Alwar Shakti App for District Administration, Alwar. This app aims to strengthen youth and ensure positive engagement. It provides career guidance, skill development information, current affair updates, positive works and stories, etc. It is also an open forum for the users to discuss and seek responses from the panel of experts of the District Administration on various topics.

Imran Khan's apps can be freely installed. Keeping in mind the background of the beneficiaries i.e. 60-70% of the users being rural based, he has focused on developing apps which are rich in content, workable offline and free of



Imran Khan Mewati receiving honor from Vice President Vainkaya Naidu

complications. The apps are primarily in Hindi language and some in English. Rural students have limited access to resources like libraries or coaching centres, and so their availability has proved to be beneficial to the children in their learning process.

Evaluation

Feedback from users and regular updation of content make the apps up to date. Various users write about their progress in learning.

Result

Narendra Modi, the Prime Minister of India, mentioned Imran Khan during his speech at Wembley Stadium, London, in November 2015. Against a backdrop of news media debates about intolerance in India, Modi said that India is beyond news headlines and is much bigger than what people see on TV, adding, “My India resides in people like Imran Khan from Alwar.” Soon afterwards, Imran Khan was given free Internet service by Bharat Sanchar Nigam Limited. MHRD minister Smriti Irani tweeted that Khan has done a “stupendous job”. He received a call from the Minister of Communications and Information Technology Ravi Shankar Prasad, who congratulated him. Bharatiya Janata Party’s state president Ashok Parnami assured Khan of assistance with apps under development. Rajasthan’s Technical and

Higher Education Minister Kali Charan Saraf rewarded him with INR 11,000. He also offered him the post of project officer in the Department of Science and Technology, but he “politely turned down” the offer.

Imran Khan is a member of the technical advisory of an institute under the Ministry of Electronics and Information Technology, Government of India and member of Alwar based team Project EKTA, which works towards strengthening elementary learning through online education and Alwar Shakti, a campaign for youth. He has been invited several times to enlighten trainee IAS officers on topics related to innovation and education. He joined TEDxRTU as speaker on 17 March 2018 at UIT Auditorium, Kota (Rajasthan).

Current Situation

Imran Khan is of the view that e-learning, digital learning is the future and it is important for the rural areas to have access to digital information and technology infrastructure. It will be a boon for the rural students to access and explore new horizons in educational and learning content with their own interest and at their own pace, without much expense. Information Technology will help in knowledge and skill development. Teachers, professionals from various fraternities and his friends extend their voluntary support for content



Some Educational Apps created by Imran Khan

Primary Apps:

- Kids GK
- Science Questions Answers
- Kings of Maths
- NCERT Science in Hindi
- Science Class 8
- Picture Book
- Kids Conversation
- Hello Maths

Secondary Classes Apps:

- Science in Hindi Class 10
- Social Science Class 10
- NCERT Science 10
- Physics
- Essay Writing
- NCERT Social Science
- Solar System
- NCERT Learn Science
- Human Body System
- Improve GK - 2
- Improve GK - I
- Maths Glossary
- Inspirational Moral Stories

Other Apps:

- Easy Yoga
- Inspirational Quotes
- Gajals of Karim Pathan Anmol
- GK talk
- Gyan Manzari
- चांद अब हरा हो गया ह
- GK Oneline
- नीत 9लोक
- MATERNAL CARE

Competition Apps:

- General Science in Hindi
- Project Dishari
- SSC Exam
- Indian Constitution
- Nursing Exam
- Hindi Grammar
- Rajasthan Geography GK
- All GK Question Bank
- History GK
- Rajasthan GK
- Geography GK
- Rajasthan History GK
- RAS TUTOR

- Science World
- Rajasthan Police Exam
- Uttar Pradesh GK
- RPSC GK
- RSCIT Hindi App
- Hindi Literature
- Indian Political GK
- Indian Scientists
- मुहावरे और लोकोडितियाँ
- Mughal Empire
- Daily GK
- Chemistry Question Bank
- Computer Awareness
- Computer Fundamentals
- Antonyms Synonyms
- Economics GK in Hindi
- Educational Psychology
- 20-20 Maths Quiz
- 20-20 Biology Quizzes
- 20-20 Quiz General Science
- 20-20 Quiz History in Hindi
- India GK App
- World GK

development on varied subjects. They contribute to topics which could be early school subjects, preparing for professional courses and competitive exams, learning Sanskrit, or monitoring maternal and other health parameters, etc. Being a teacher has also enabled Imran Khan to add value to the educational content of the app.

Reach of Innovation

Imran Khan's passion for developing apps, his vision and intention have inspired many in India and abroad. The framework that he creates through his knowledge, passion and inclination matches that of professional standards, which is noteworthy. He is a role model for many youngsters including IT professionals in India and abroad.

Awards

- **Jamnallal Bajaj Award.** Imran Khan was awarded the Jamnallal Bajaj Award 2019 for Outstanding Contribution in Application of Science & Technology for Rural Development.
- **National Award to Teachers 2018.** He was selected for National Award in 2017 and was felicitated by the Vice President of India in Vigyan Bhawan on Teachers Day 5 September 2018. Imran Khan devoted this Award to all students studying in Government schools of India.
- **National ICT Award 2016.** He was awarded the National ICT Award 2016 for his ICT activities in Education by the President of India in Vigyan Bhawan on Teachers Day 5 September 2017.
- **Bhamashah Award.** He was nominated for the state-level Bhamashah award for giving up the copyright to 60 of his mobile apps on education and giving the same to the

HRD ministry. The total estimated value of his apps are Rs 3.32 crores. Education Minister of Rajasthan Mr. Vasudev Devanani with Chairman of state assembly Mr. Kailash Meghwal felicitated him in Birla Auditorium on 28 June 2016.

- **State Level Teacher Award, 2016** by Hon'ble CM of Rajasthan Vasundhara Raje.
- **CNBC Cisco Digitizing India Award, 2016** by Hon'ble Union Minister of Urban Development Venkaiah Naidu.
- **Zee Business Makers of India Award, 2016**
- **Dr. APJ Abdul Kalam Award of Utkarsh Classes** by Hon'ble MoS Mr. P.P Chaudhary.

Details of Innovation adoption by other Schools

Mobiles are not allowed in schools so directly there is no adoption by schools, but according to Google Analytics, about 2.2 million users are using these apps.



QUESTIONS FOR TEACHERS

1. How can digital media be used effectively in education?
2. What are the things to keep in mind while taking content from a digital platform?
3. What can be done to persuade parents to enroll their children in a government school?

QUESTIONS FOR TRAINEES

1. How can a mobile application be used in education?
2. What activities can be organized to engage children in the teaching-learning process in an interesting way?
3. What are the things to look for when creating an educational application?