

Chidiya

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Relive the best of your moments with friends, with a pinch of knowledge!

Our Idea

Chidiya उड़ brings a touch of knowledge to the iconic game of psychomotor skills.

Our application and physical model implements an automatic game of Chidiya उड़ with text to speech user interaction, fast-paced action, and a dynamic leaderboard.

Most importantly in addition to this game mode, there is a Quiz mode for educational purposes. The user can select from an array of topics like Indian Culture, General Knowledge, and Coding.



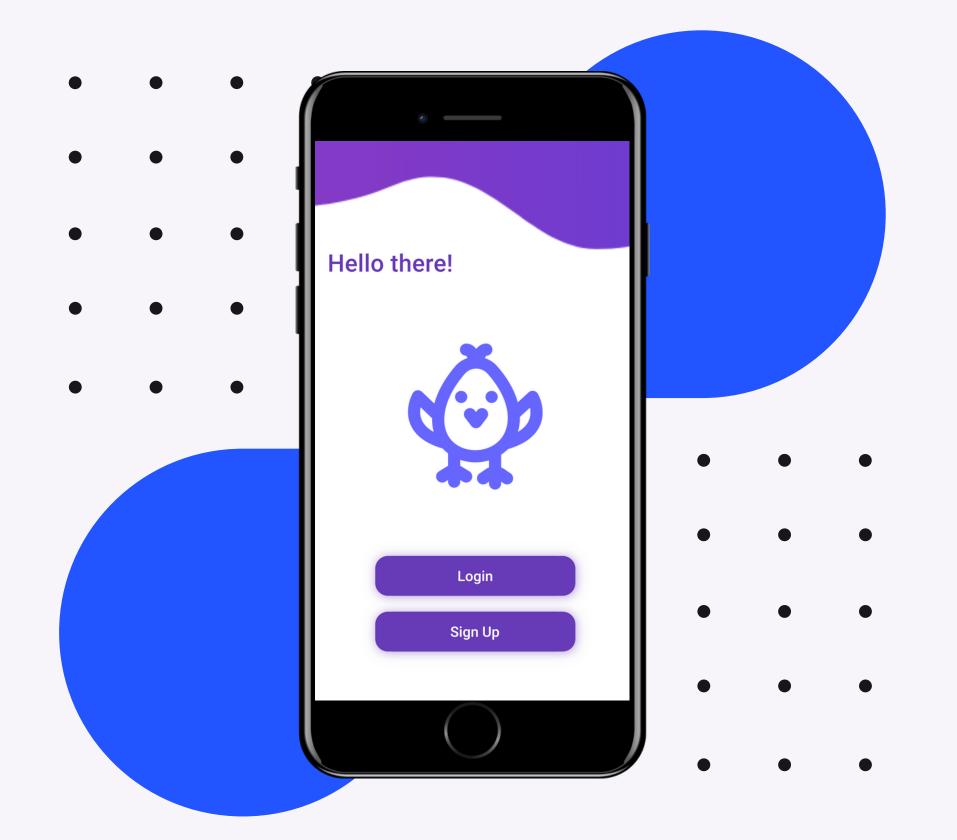
Structure of the mobile application

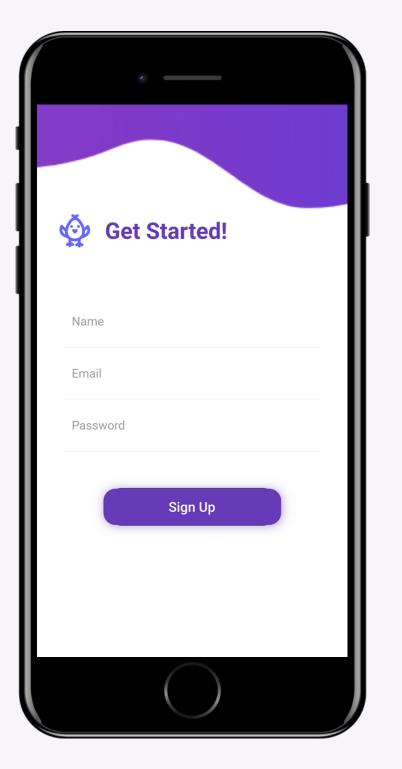
Our engaging mobile application has a userfriendly interface suitable for kids of age between 6-14 years. User Login/Signup

2 Mode Selection

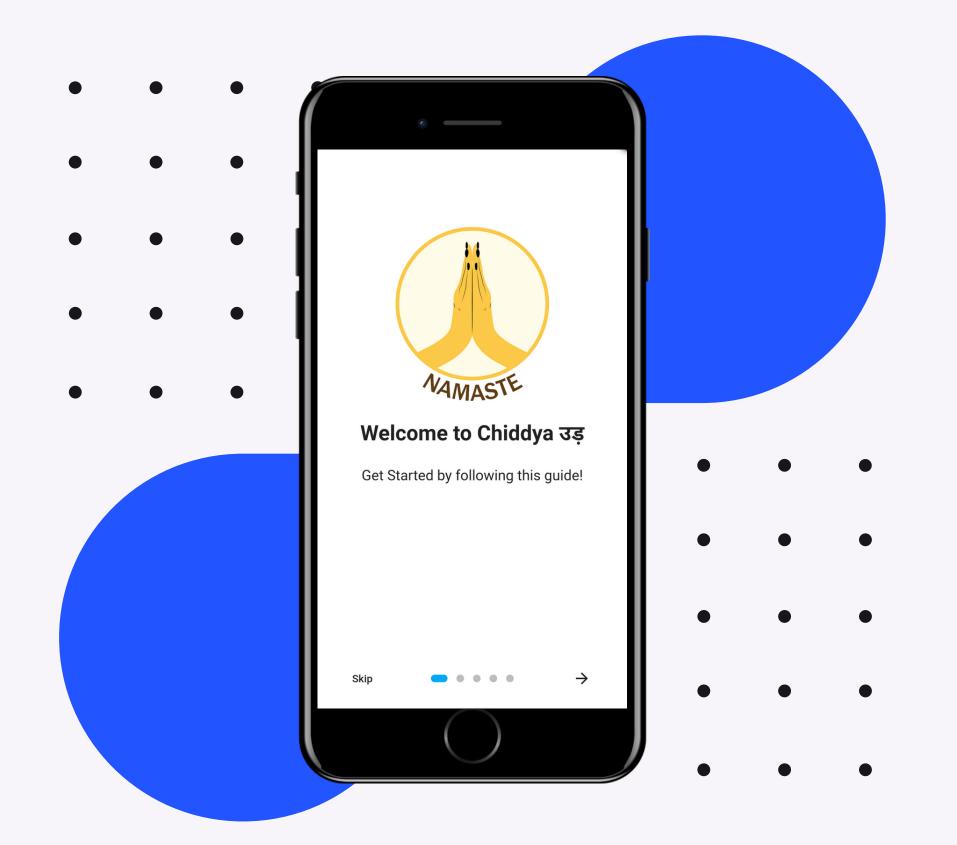
Quiz/Game Leaderboards

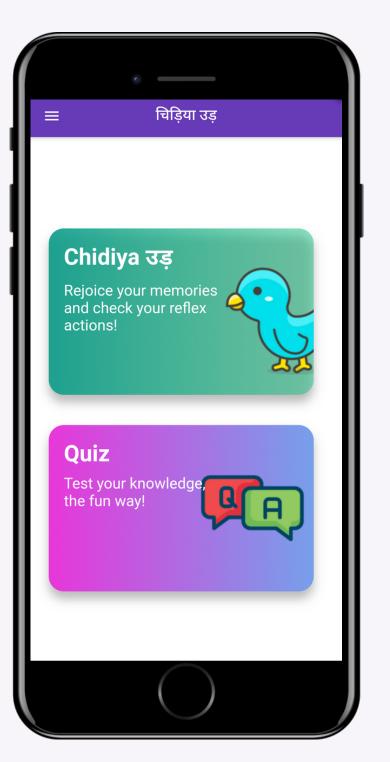
User Profile & Database







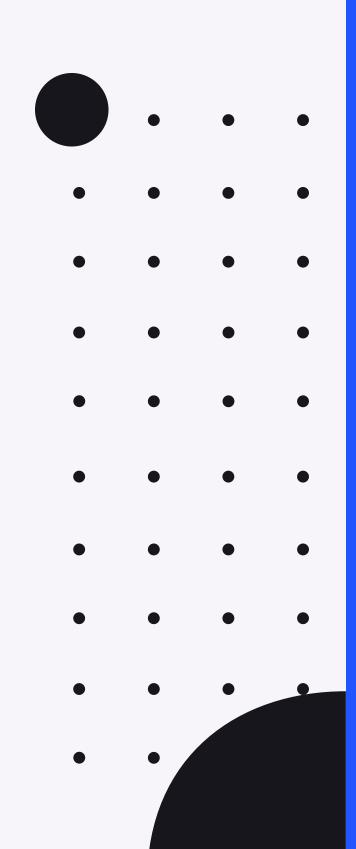




The Fun Mode

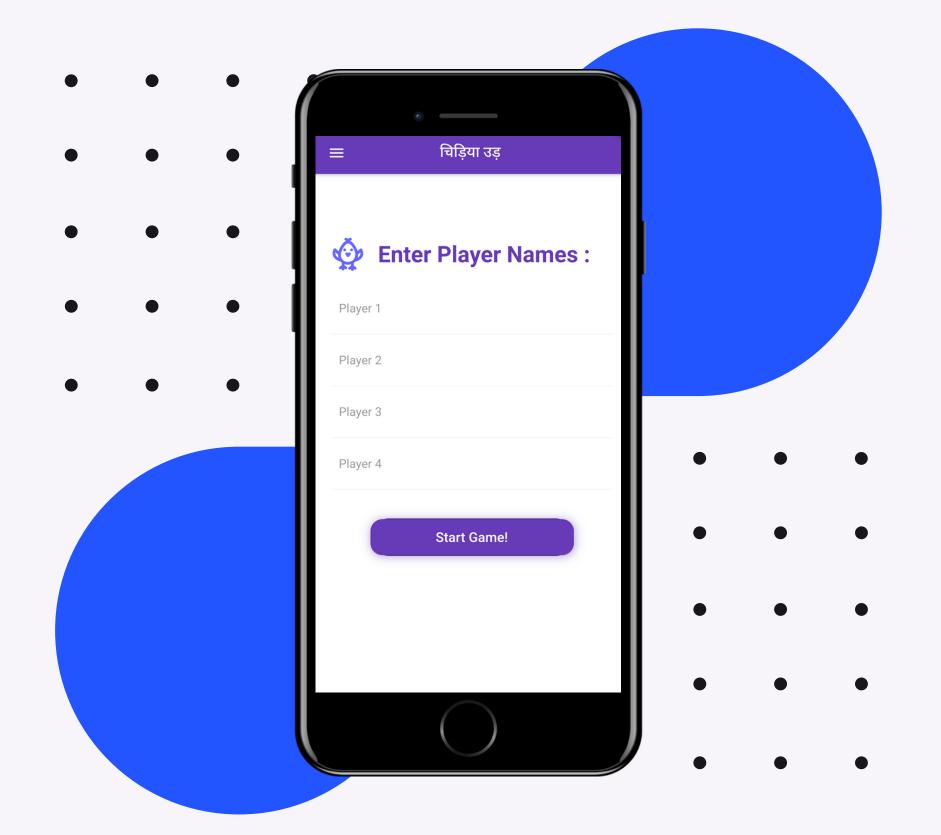
Chidiya বৰু is one of India's most popular childhood games, a fun way to induce psychomotor skills like reflexes in children.

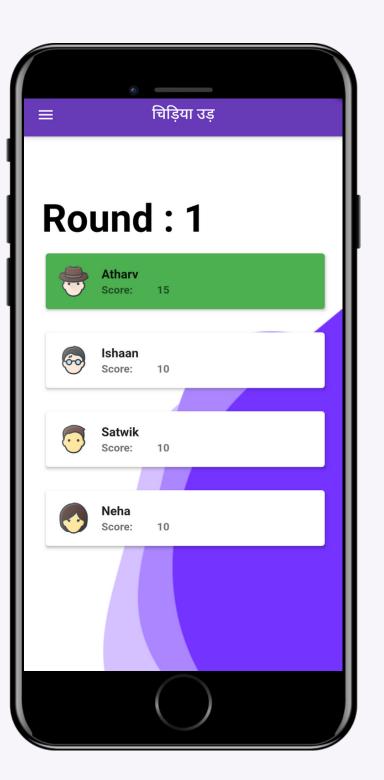
An epitome of Indian culture, our toy eliminates the need for a sharp eye to see who lifted their finger and keeps constant track of the leaderboard.



Chidiya उड़

A model of Indian Culture and Heritage.







As much as entertainment, education is also one of the toy's key points of focus.

Touch inputs from the users can be used as inputs to True/False questions across a variety of domains.

Suitable for all ages

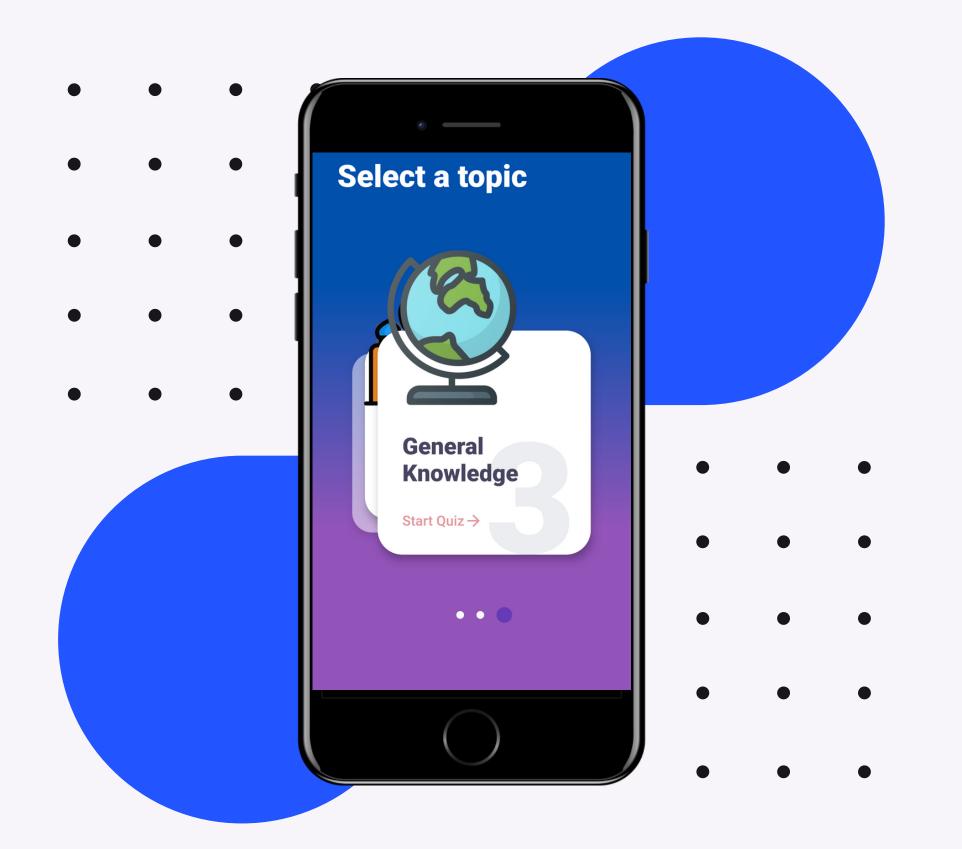
The topics for quizes can vary from environmental studies to coding.

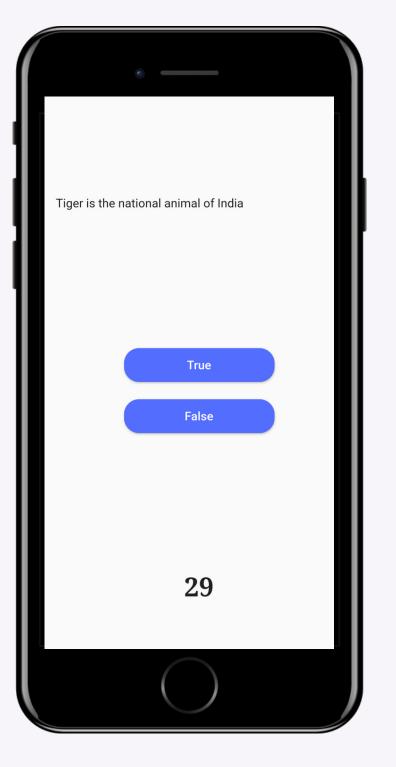
Compliance with NEP

The quizes can accomodate topics from the entire syllabus specified in the National Education Policy.

Engaging

This mode makes the toy engaging, interactive and competitive while imparting knowledge.





Hardware

Chidiya বৰ্ uses recyclable and OEM parts to portray an environment and child-friendly product. The small toy has no sharp edges and is also cost-effective and easy to manufacture.

Arduino

Infrared Sensors

NodeMCU

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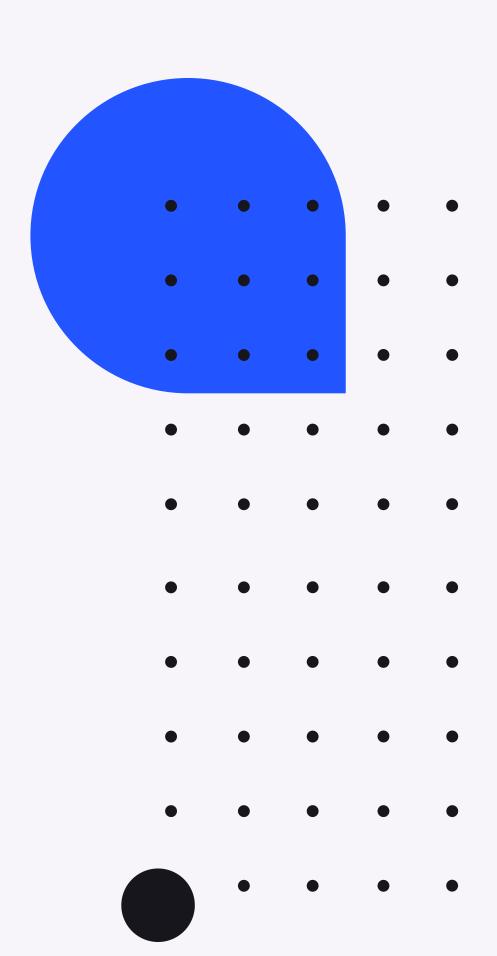
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Hardware Parameters

Our toy has -

- 1. No sharp edges
- 2. OEM parts which are widely available
- 3. Both Education and Entertainment modes
- 4. Feasible and cost-effective design
- 5. Aesthetic looks





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Flutter/Dart

The software is built on the Flutter framework, coded in Dart to provide a user-friendly UI.

Arduino

The hardware of the toy is coded on an Arduino board using touch sensors.

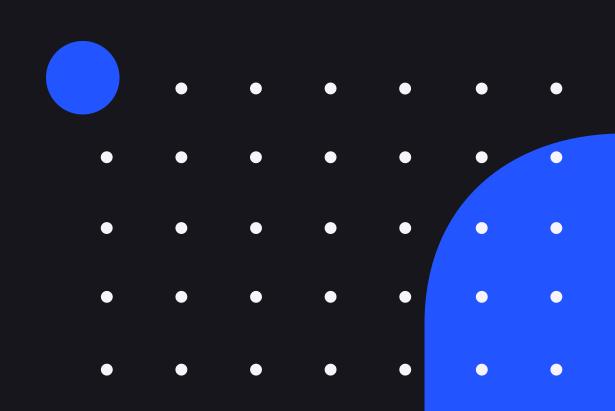
Firebase

The user data of wins/losses and quiz scores are stored on a Firebase database.

NodeMCU

A connection between the software and hardware is achieved over WiFi using NodeMCU.

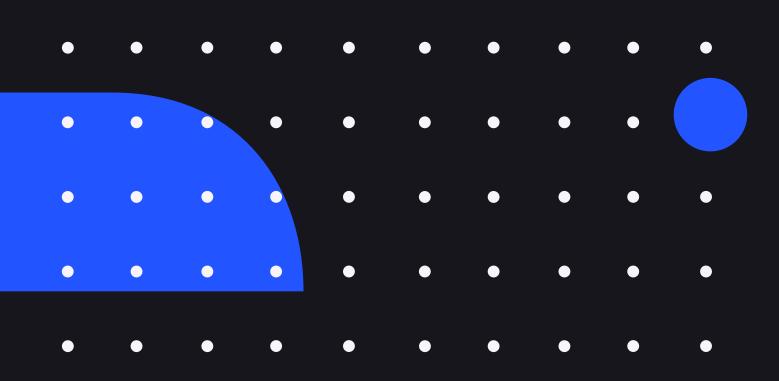
Cost Benefit Analysis



Chidiya বৰু is a toy that uses widely and cheaply available OEM parts into a consolidated entertainment and education device.

The total cost of the device, manufactured individually is INR700, and with the parts being readily and easily available, the total cost of the product after production can be INR500.

The database over Firebase is essentially free as it allows 10000 users every month, covering the scalability factor of the product.

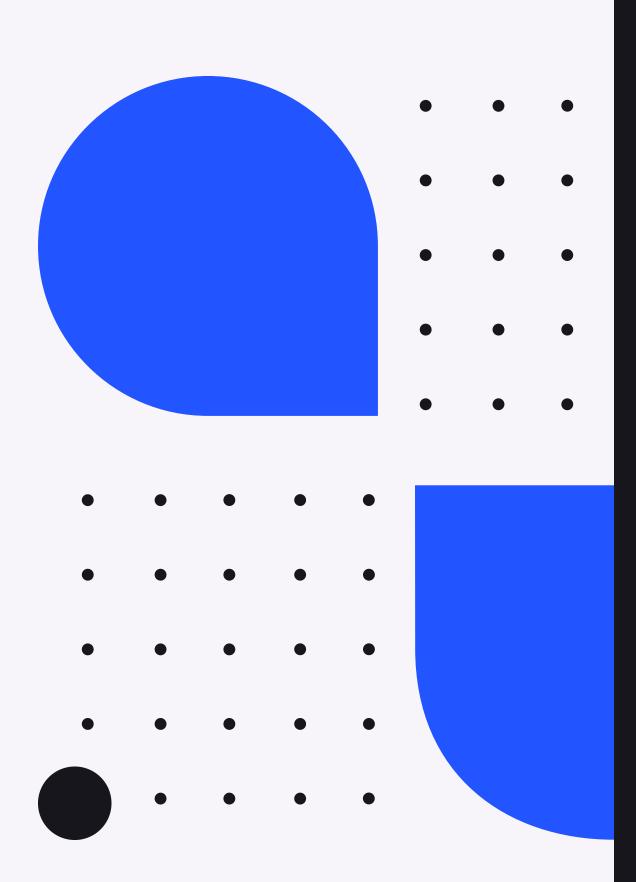


Our team

- Archit Vashist
 - Thapar Institute of Engineering and Technology
- Atharv Jairath

 Dr. Akhilesh Das Gupta Institute
 of Technology and Management
- Bhavya Khandelwal
 Thapar Institute of Engineering
 and Technology
- Ishaan Bajaj
 Thapar Institute of Engineering and Technology
- Satwik Dudeja

 Delhi Technological University



Thank You

Team WhiteHatSr - Toyathon 2021