**Hackathon Report**

*report Submitted to*

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by

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* Hackathon

A hackathon is an intense competition with a time constraint where participants collaborate to develop prototypes and minimum viable products to address a specific issue. In this competition, a group of participants wrestles with a given a problem statement to come up with a solution and demonstrate it with a form of prototypes.

#### Problem Statements:

Make an Alexa like device which can tell stories for a given collection of Indian toys.

Hackathon - Making an Alexa like device which can tell stories for a given collection of Indian toys.

Pre-requisites:

1. A light-weight database (we have used MySQL),
2. A set of pre-installed python modules with a stable internet connection to establish a successful API call request/response to Wikipedia in order to get the information/story of the given Indian toy as per the command given by the end user.

* Below are the packages that need to be pre-installed as mentioned in the report
  1. Installing the required packages for speech input and conversion of

speech into meaningful text

* 1. pip install speech recognition module pip install pyaudio pip install pyttsx3

3. Installed Wikipedia for the internal API call to wiki source pip install

Wikipedia.

4. Installed pywhatkit module for the internal API call to Play a YouTube video,

Perform a Google Search and Get information on a particular topic

source pip install pywhatkit.

5. Hardware what you will need-

\* A Raspberry Pi (Zero W preferably or 3 B - Either work)

\* Micro SD card (At least 8GB)

\* A micro USB cable (I had a micro USB adapter that would plug into the

wall

directly)

\* A charging brick (If you do not have an all in one adapter)

\* A USB microphone (You can pick up a [PS Eye](https://www.amazon.com/dp/B0072I2240/) or use any other USB

microphone)

\* Speaker (3.5mm or Bluetooth - 3.5 preferably)

\* Internet connection

* Reference

1. Wikipedia
2. YouTube.