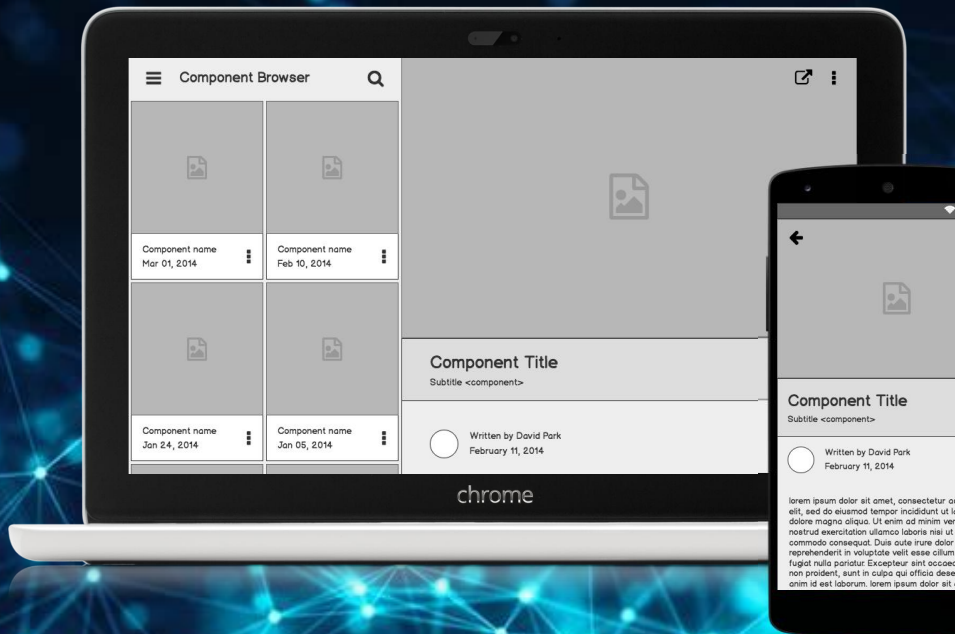


Hello World..!!



Digital Notice Board

Problem statement and solution proposal





Outline

- The problem
- Solution Proposal
- Working Procedure
- Next Steps
- An IF condition..



Problems

- ➡ The traditional Notice Boards are very hard to Maintain.
- ➡ Due lack of space on the board only less Information can be Delivered.
- ➡ Due to Clumsiness, some of the Information might be Overseen..
- ➡ Format of Information is Restricted to Only Images or Text..

Evolution is Solution

The Only



It's Time for them to Evolve..!!

The traditional Notice Boards are around for Decades.

A computer is initially made to do Math, But now how exactly are we using the latest Computers??

Similarly, The device made by us can not only be used for passing Announcements/Notifications but also it can do stuff which people can't even imagine..!!

So,for sake of better
Experience & Faster
updates we need this to
be Upgraded...!!



Transparency of Information



Most of the events conducted by the college aren't even intimated to the certain branch students...!!

Complaints & Suggestions by the Students can be easily conveyed, So for the first time, Students will now able to get an opportunity to speak out what the need...!!

It is the Management's responsibility to fulfill the Students Desires...!!



Registrations Made Easy...!!

Now Students don't need to waste time filling forms...!!

The device contains a HD camera which can scan Student's ID-card & extract His/Her info from the image taken using Computer Vision.

So now the Host will be able to know who are interested in an event



Mallika

Roll No:18L31A1962

Branch: ECM

Mobile No:8886940907

*Effective Use of ID-Cards
lets students to feel good to wear
'em*

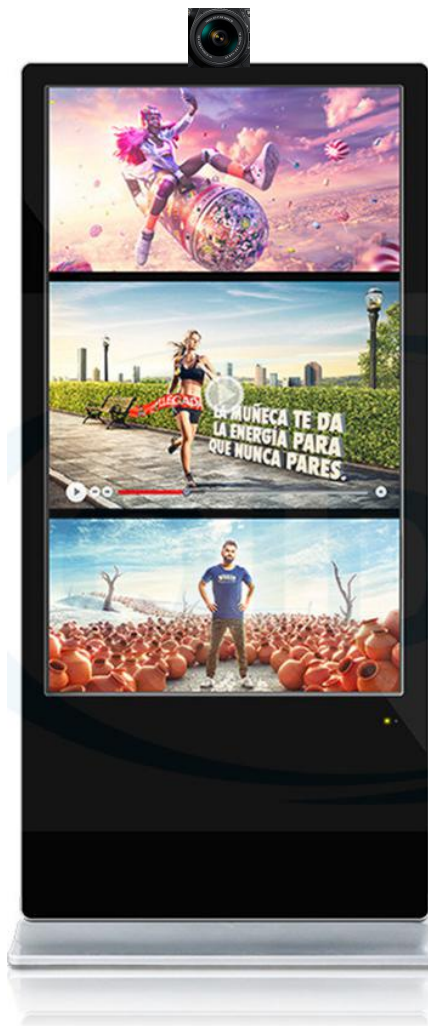
Advantages & Use Cases



- A lot of Paper can be Saved..!!
- The Administrator could be able to update latest information from wherever he/she is..
- Any format of information can now be showcased including .GIF and .MP3..!!
- Very useful, in case of Big events like Technical Fests (#Vista 2k19 & so on..):

Students don't need to waste their time in Canvassing..!!

- Effective usage of ID-Cards
- Various interested candidates can group up with other students who are interested in that particular event like Hackathons, Programming Contents and attending Workshops at IIts/Nits.
- Secured.
- Eco-Friendly
- And many more...



#Cloud



#ComputerVision



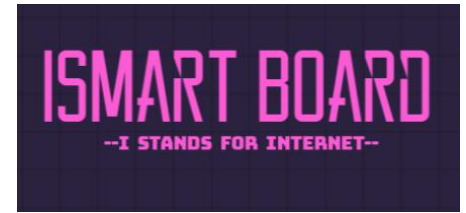
#Wifi



#Solar Powered



#Eco-Friendly



The DAPP will be available for..



Android



IOS



WEB



It's *a*
Decencralised
Application..!!

Solution description



In the Mobile app there will be 2 types of accounts one is for Officials & another is for students.

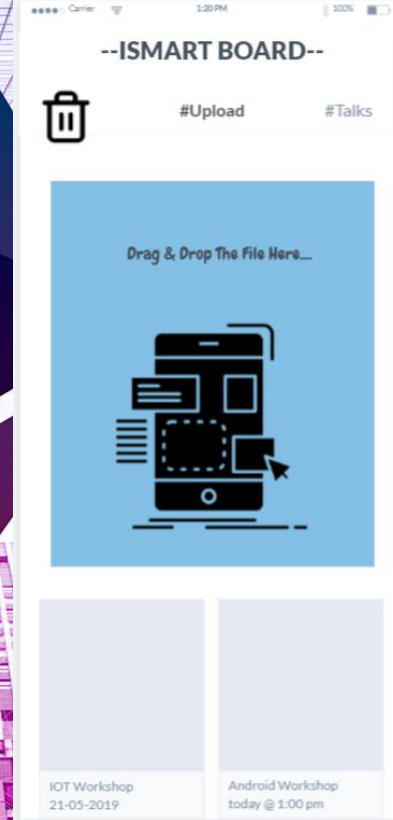
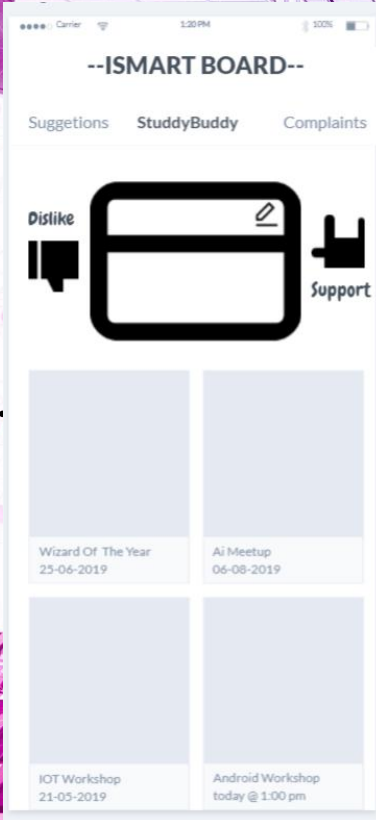
Only Teachers/Officials can upload the content regarding any kind of events to the device. And registration for that can easily be done with students' ID-Card.

"Talks" section in Official's account lets students to interact more by asking questions while a guest lecture is going on.

In the app for students there will be a "Suggestion" section at which Students can be able to post their views (Kind of a Discussion forum).. But it will only be displayed if he/she gets a min of 50 Supports from the other students.. The Suggestion section further consists 3 sections namely "Complaints", "Suggestions" & "Study Buddy" (Where they can find other students with similar interests)

Note: "Supports" are like "Likes" in facebook..

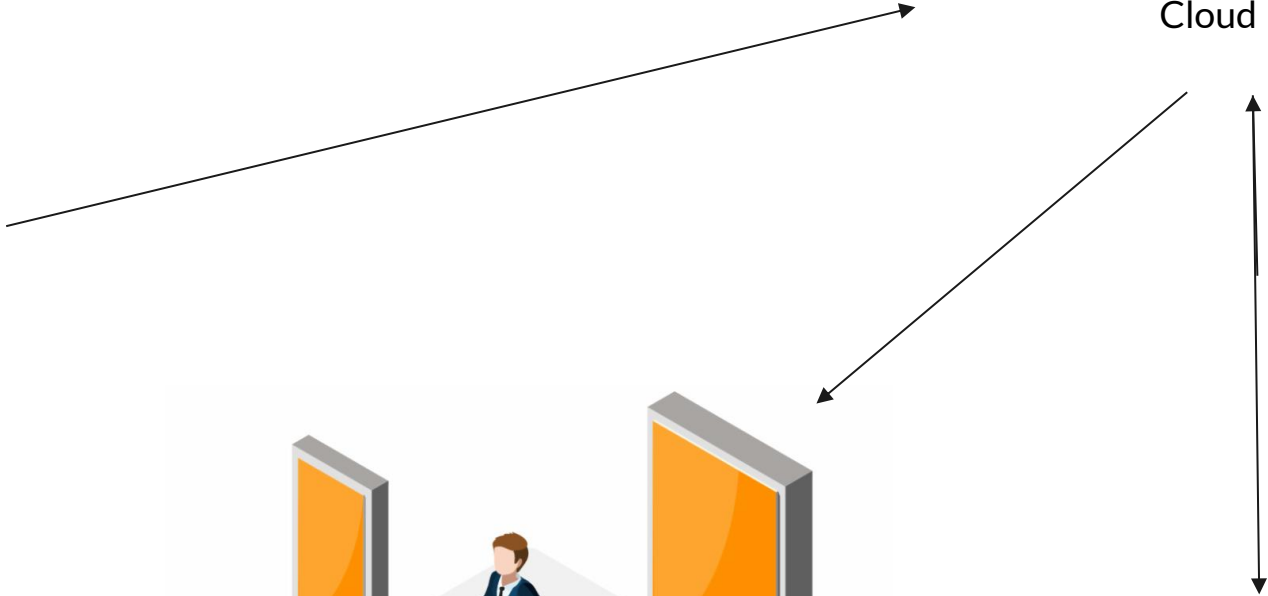
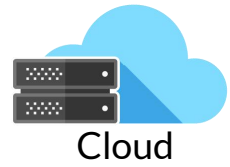
DAPP's UI



Student's Account..

Official's Account.

Working Procedure



OK fine about Blockchain, but what about CryptoCurrency??



Here CryptoCurrency can be used as a scoring factor for an individual instead of real currency.

Every time a student does a noble thing, say if he/she taught something related to technology to other students then he/she will be awarded with the cryptocurrency

This allows us to easily identify the diamonds in the mud.

Student with more Cryptos can be awarded as "Student Of The Year"

Moreover students with high amount of Cryptos can be grouped together to do Epic things..!!

What next?

- An Effective Design of the Screen .
- Building the DAPP and setting up the Cloud services.



Hardened operating system from **Ubuntu**. Automatically updated.



Thanks to our **Evrythng** Integration, **Screenly** can be integrated with real world events.



Screenly was designed to connect and run on an ethernet, wireless or even up to 5G connectivity with very low bandwidth consumption.



Screenly is extremely power efficient. Less than 300mA in use.



Screenly already powers over 10,000 screens all around the globe.

Design of The Screen



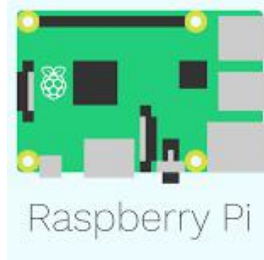
Screen



Magnifying
Lens



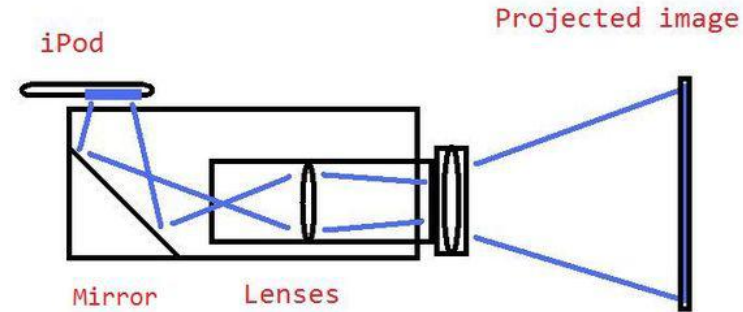
Small LCD Display



Raspberry Pi



Camera



Technologies to be used



Blockchain: Ethereum

Ai : kereas, pandas, numpy, sklearn OpenCV and matplotlib APIs.

IoT : Embedding python for programming the Raspberry Pi.

App Dev. : Android Studio with Flutter integration.

If (The managment links the internal marks & the **Cryptos**) :



With proper implimentation of the proposed "Dapp" can definetly change the way thing are been in any college

Allowing Students to come up with more innovative ideas...!!!

Just think about how our country will be if all the enggineeeers actually do the **Real Engineering Stuff...!!**

--Thank You..!!--

Special Thanks to A.Anjaneyulu sir for his support to us.



References:

<https://youtu.be/csjDDh9JQd8>

<https://youtu.be/Tx4vPeL9y2g>

<https://github.com/wonderfulvamsi>

