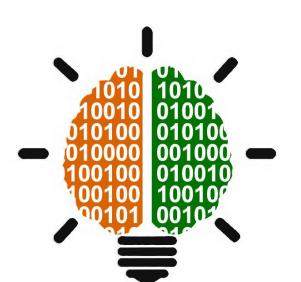


G. H. Raisoni College of Engineering Nagpur





Smart India Hackathon 2018

Ministry/state

Government of Chandigarh

Sector: Education & Skills

Software

Student Mobile App

Problem Code: #GCH2

College Code:

Team Name: CyberKnights

Team Leader: Savneet Chhatwal

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Problem abstract

- Provide information/data regarding the particular college.
- State/Centrally sponsored schemes and events.
- Track attendance (by students, teachers and parents).
- Provide important information and updates e.g. circulars, results, exam dates, timings, etc.
- Library book return reminder.
- Login with roll number/id number.
- Allow parents to **track their ward's attendance**, **performance** as well as location.
- Share documents like domicile and bonafide.
- Connected to Central Governmental database.
- Connected with AADHAR to enable verification of documents.
- Get data of any student anywhere like:
 - State -> University -> College -> Student



This is an all-in-one college management app.

Features

View

Edit

Edit

Edit

View and

View and

View and

View and

View and

Edit

Edit

View

View

View and

View and

View on

Request

View on

Request

Edit

Edit

Yes

Yes

No

No

Teachers

College

Admins

Admins

Govt. Admin

University

I Ga	tui 63				
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User	College informatio n	Personal Info	Academic info	Forum for Teacher Parent Talk	College notifications	Documents	Canteen	Govt. Sponsored Schemes	Request Info. from other college
Parents/ Students	View	View	View	Yes	View	View and request	Yes	View	No

No

No

View and Edit

View and Edit

View and

request

View and

request

View on

Request

View on

Request

Yes

Yes

No

No

View

View

View

View and Edit

Yes

Yes

Yes

Yes

Current Market Scene

We observed that very few apps are available which can solve the problems only partially.

For eg:

GHRCE STUDENT DIARY APP: attendance, results and course details of students.

MY STUDY LIFE: Schedule

Our Specialities

- Student's assistant for everything
- Device independent
- Cross platform
- Centralised Database
- Aadhar Integration
- Teacher-parent interaction

Structure

Central Server

Central Database

Centrally sponsored schemes and events

College information

Name Courses Books in Library Reviews Facilities Teacher's Profiles Admissions

Placements

Allow Govt. to Connect

Allow General users to Connect

Request Information through AADHAR Attendance Marks Results

Clavi

Academic Info

N C

Personal Info

College Server

College Database

Name College name Course details Contact details Share documents for verification

mark sheets, certificates such as domicile

Forum for discussions

Parents to Teachers Student to Student Student to Teacher Group

Canteen

Exam papers

College notifications

Events
circular
results
exam dates
timing
reminders
Library reminder
Schedule

What is personal Assistant?

It can talk to you

Assess and track your academic performance

Motivating reminders to improve your performance

Personalized only for you

Technical Specifications and Requirements

Application

- Cross platform hybrid application
- Based on web technologies
 - Login from any device
- Native wrapper provided by Phonegap
- Design framework provided by Materialize

Other Requirements

• Internet Connection

Devices

- Central server
- Institutional server
- Mobile devices as clients
- Desktop computers as clients
- Desktop computers for special tasks like canteen

Server

- Nodejs Runtime
- Linux based operating system (Recommended)
- SQL DB or MongoDB (MongoDB is preferred)