G. H. Raisoni College of Engineering
Nagpur

Smart India Hackathon 2018

Ministry/state
Government of Chandigarh

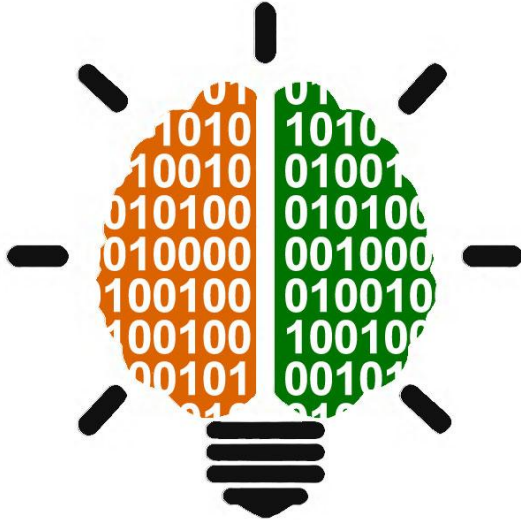Sector : Education & Skills

Software

Student Mobile App

Problem Code: #GCH2   College Code:

Team Name : **CyberKnights**
Team Leader : **Savneet Chhatwal**

chhatwal_savneet.ghrcecs@raisoni.net

Problem abstract

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- 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

Clavi

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

Features

User	College information	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	Yes	View	No
Teachers	View	View and Edit	View and Edit	Yes	View and Edit	View	Yes	View	Yes
College Admins	View and Edit	View and Edit	View and Edit	Yes	View and Edit	View	Yes	View	Yes
University Admins	View and Edit	View	View on Request	No	No	View on Request	No	View	Yes
Govt. Admin	View and Edit	View	View on Request	No	No	View on Request	No	View and Edit	Yes

Current Market Scene

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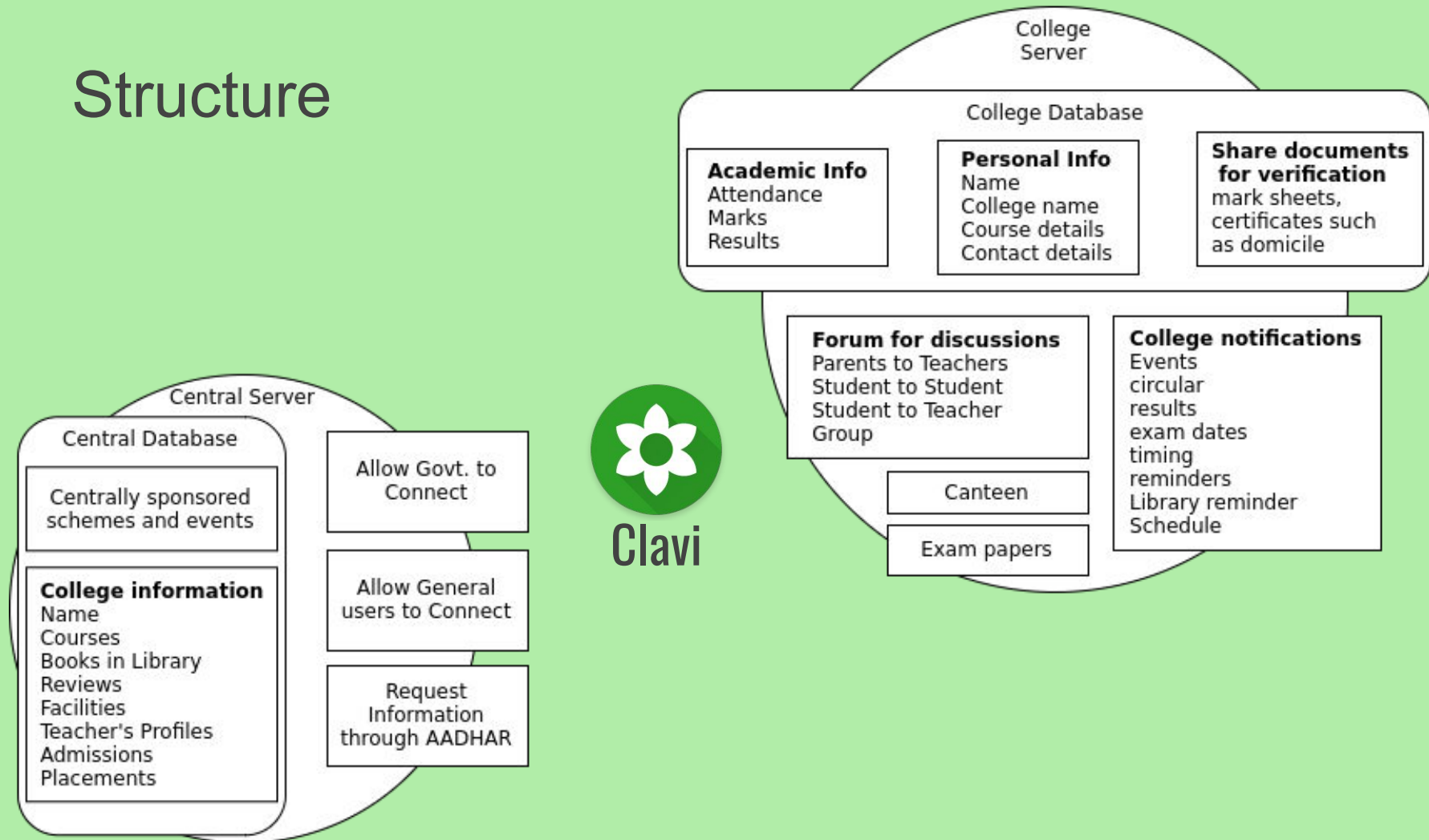
For eg:

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

MY STUDY LIFE: Schedule

Our Specialities

- Centralized Experience
- 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

Clavi

College Server

College Database

Academic Info
Attendance
Marks
Results

Personal Info
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

College notifications
Events
circular
results
exam dates
timing
reminders
Library reminder
Schedule

Canteen

Exam papers

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

Devices

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

Other Requirements

- Internet Connection

Server

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