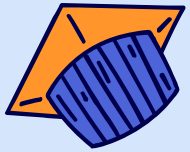

IIT Bombay Internship

Android Development Intern

Aditya Mahajan
2017BCS001
A10

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01

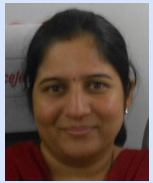
OVERVIEW

Mentors and Project Leads

Mentors and Project Leads

IIT Bombay Mentor

Mr Ganesh Ramakrishnan
Professor



SGGS Mentor

Mrs. Jaishri Waghmare
Associate Professor

Project Manager

Vikram Bansal
CTO at Tekolutions.ai

Reporting Lead

Anuja Dumda
Project Assistant

02

CLIENTS

The projects on which I am working.

INTRODUCTION

IIT Bombay is consulted by lots of government and private companies, startups, etc with some ideas and ask for help in developing and improving various products.

So IIT Bombay along with their faculties hire interns from different colleges and different domains, who help in building these products.

CLIENTS I HAVE WORKED WITH

Lokavidya

Startup

Ekal Prashikshan

Educational NGO

Vayam

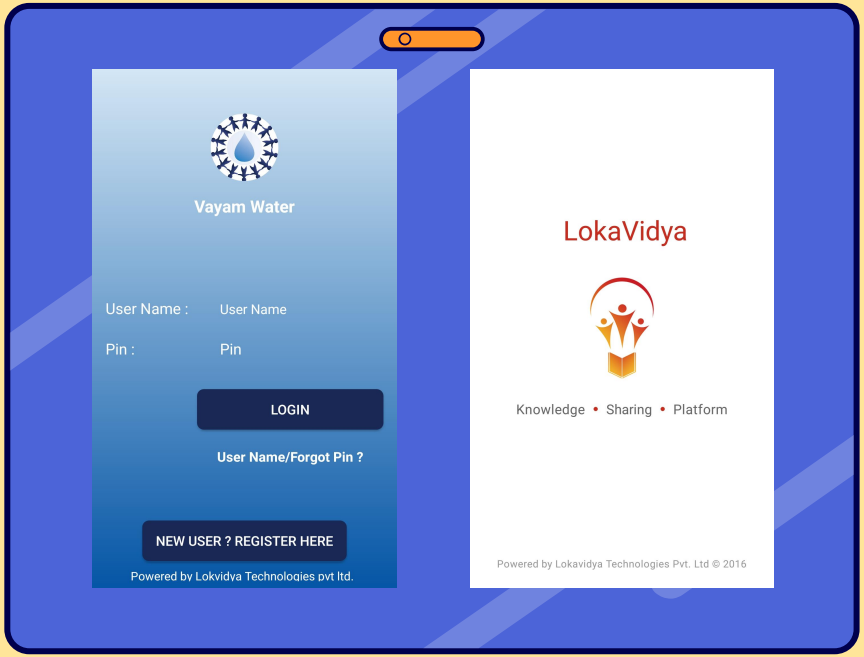
Govt. Project

03

WORK

Details of the tech stack and architecture being used.

ABOUT THE APPS



- Lokavidya and Ekal are kind of online tutorial platforms with the aim of providing education to rural students.
- Vayam is a documentation app for the government project which store the details of Wells, kunds, etc with their information

TECH STACK & ARCHITECTURE ?

JAVA

The primary programming language used in our work for development

MVC

Model View Controller Architecture was used during development

BACKEND

Backend was completely developed with ROR (Ruby on Rails)

APIs

All the APIs were developed and maintained with POSTMAN

FEATURES ADDED

- PDF File support

- Audio and Images support

PDF Support

Library Used : **MuPDF** - Link

- MuPDF is a lightweight PDF, XPS, and E-book viewer.
- MuPDF consists of a software library, command line tools, and viewers for various platforms.

Secondary Use : **PDF Renderer** - Link

Used in Ekal app as there were very basic functionalities required and also is very light weight

Audio Support

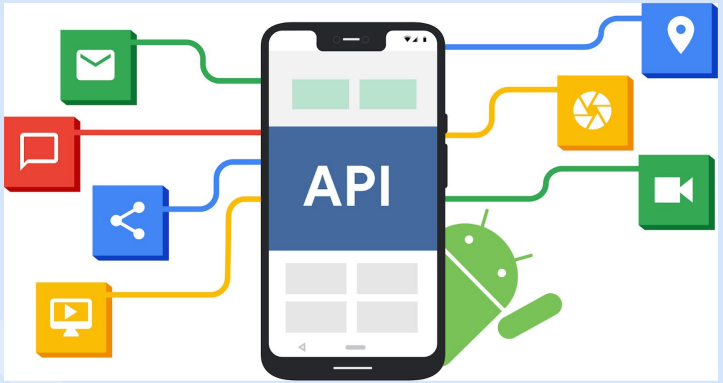
Library Used : **AAudio** - Link

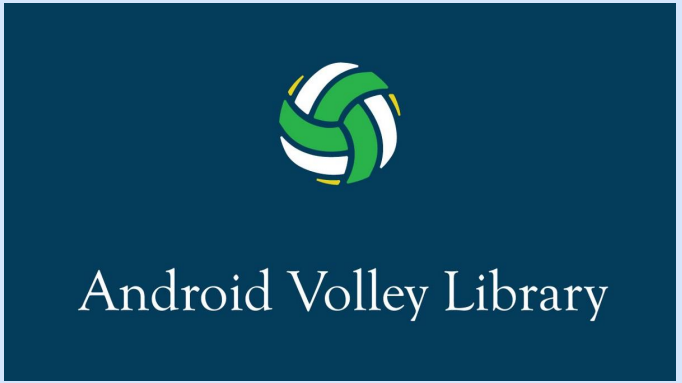
- AAudio is a new Android C API introduced in the Android O release.
- It is designed for high-performance audio applications that require low latency.
- Apps communicate with AAudio by reading and writing data to streams.

API Optimization

Library Used : **Volley** - Link

- Volley is an HTTP library that makes networking for Android apps easier and most importantly, faster.





THANK YOU!

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2017bcs001@sggs.ac.in

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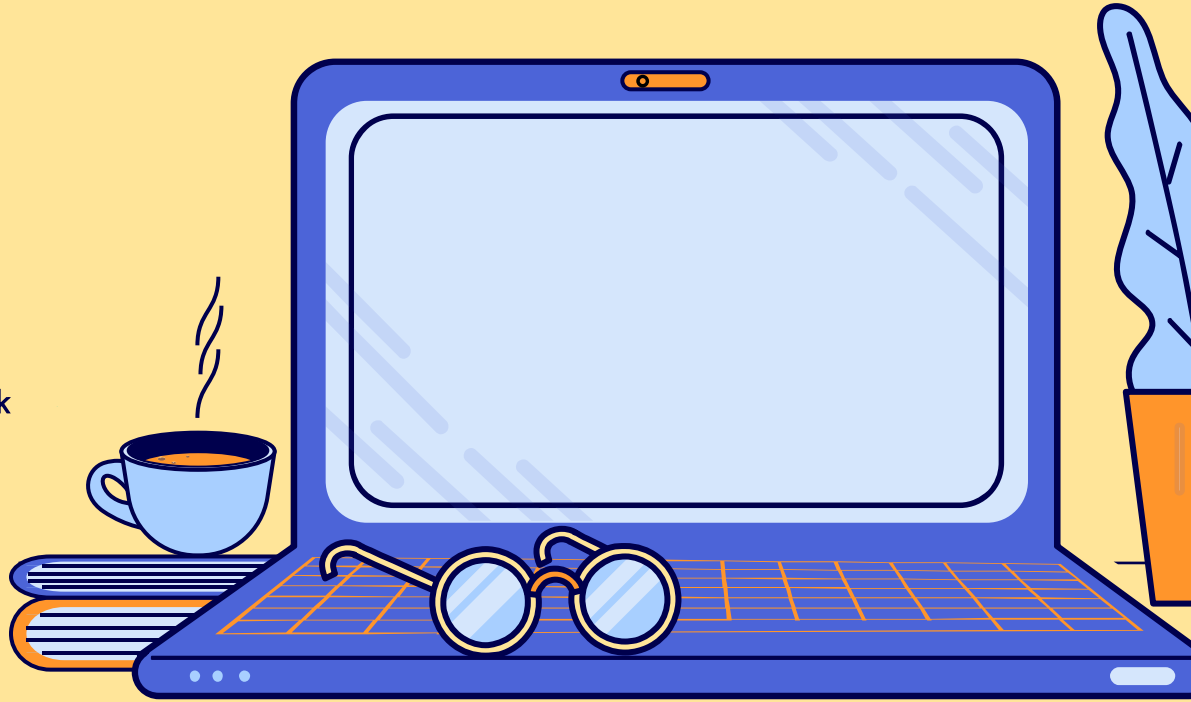

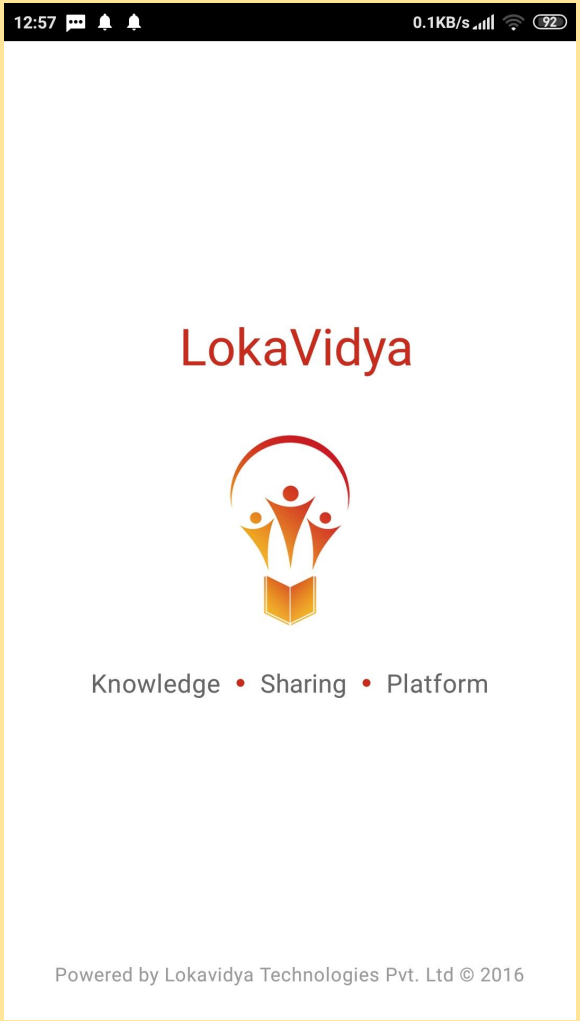
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LokaVidya
LOKAVIDYA
VIEW
With a mission to enable the use of technology for empowering rural masses, LokaVidya is specially designed for the base-of-pyramid users
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मौखिक गिनती
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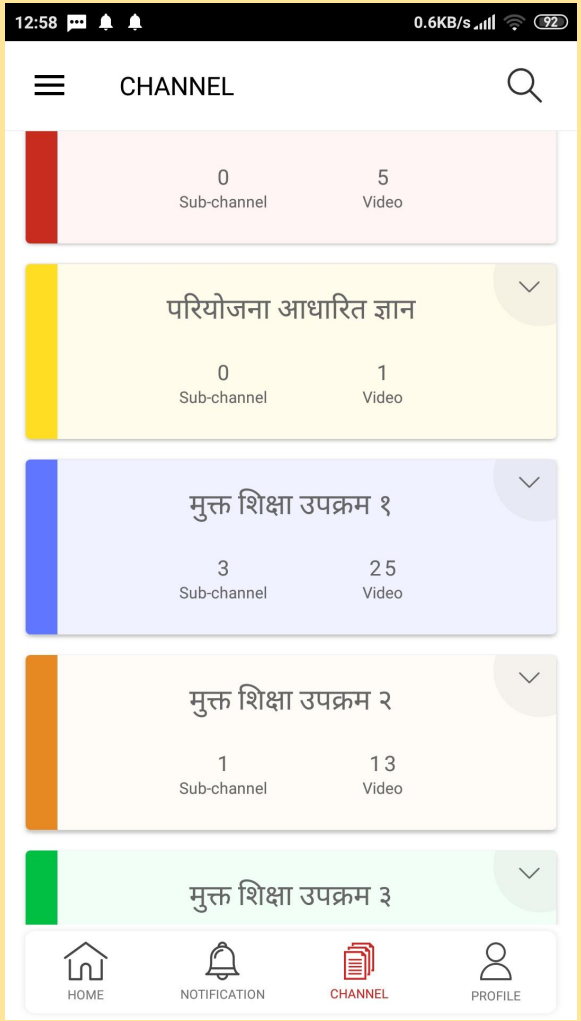
20
235
9
एकल विज्ञान वीडियो
एकल विद्यालय
एकल विद्यालय
HOME
NOTIFICATION
CHANNEL
PROFILE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मुक्त शिक्षा उपक्रम ३
HOME
NOTIFICATION
CHANNEL
PROFILE

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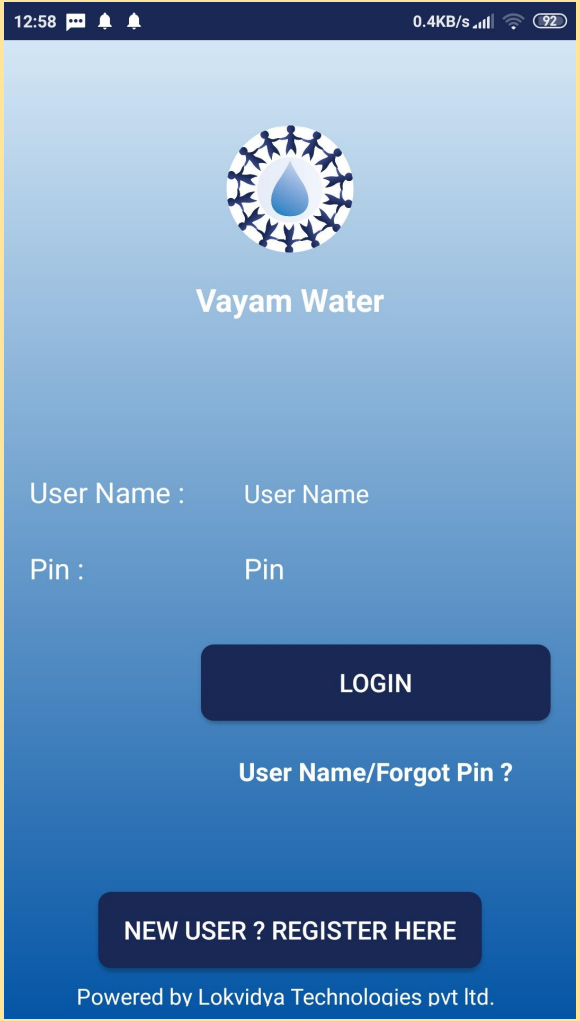
Vayam Water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Vayam Water
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Pin :
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User Name/Forgot Pin ?
NEW USER ? REGISTER HERE
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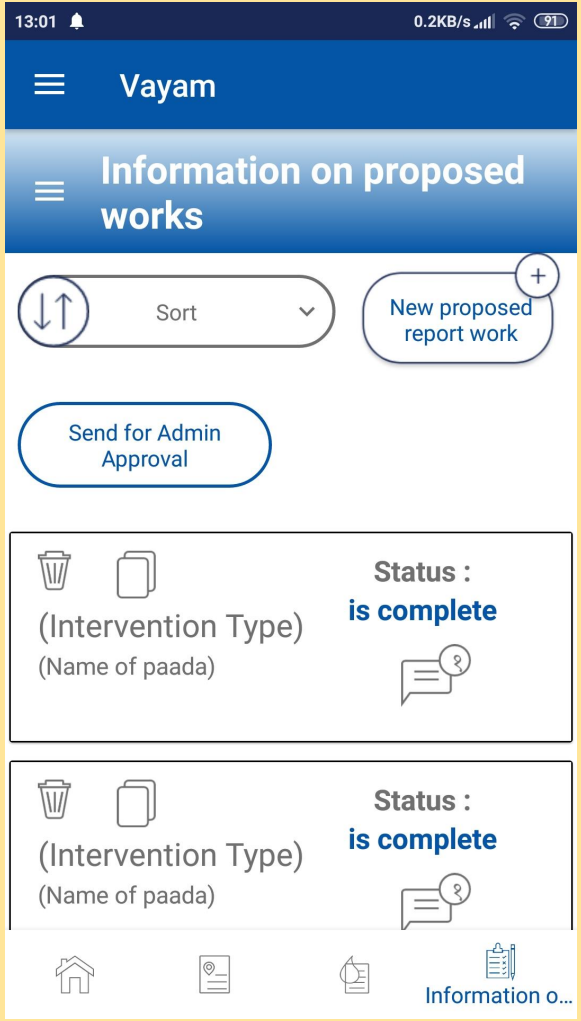
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Vayam
Information on proposed works
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