# **Automatic Social Media App Creator**

Department of CSE Jyothi Engineering College Thrissur

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#### **CREW**

#### **GROUP MEMBERS**

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#### Guide

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# **Department Mission & Vision**

#### Vision

Creating eminent and ethical leaders in the domain of computational sciences through quality professional education with a focus on holistic learning and excellence.

#### Mission

- To create technically competent and ethically conscious graduates in the field of Computer Science & Engineering by encouraging holistic learning and excellence.
- To prepare students for careers in Industry, Academia and the Government.
- To instill Entrepreneurial Orientation and research motivation among the students of the department To emerge as a leader in education in the region by
- encouraging teaching, learning, industry and societal connect.

## INTRODUCTION

- In the early 2000s, the primary purpose of mobile phones was to communicate by calling or texting an interlocutor
- Mobile phones have become tools that have changed our world, allowing users to entertain themselves learn, and search for information faster and more efficiently
- Our project is a platform for generating social media applications for educational institutions.

#### LITERATURE SURVEY

- Application of Low-Cost Methodologies for Mobile Phone App Development
- Simulating User Interactions: A Model and Tool for Semi-realistic Load Testing of Social App Backend Web Services
- Efficient Way Of Web Development Using Python And Flask
- An Empirical Evaluation of the User Interface Energy Consumption of React Native and Flutter

## **MOTIVATION**

- To provide a social media application easily for every institutions
- To reduce the time taken and the cost needed for creating a social media application
- Limited expense is needed for its maintenance
- To provide better security

## **METHODOLOGY**

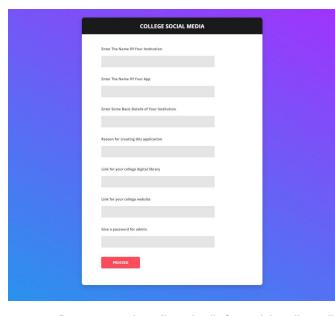
The proposed system uses mainly four types of methodologies:-

- Web Development HTML,CSS,PHP,Xampp
- Database Firebase
- o Automation Python
- App Development Flutter

#### MODULE DESCRIPTION

#### **WEBSITE MODULE**

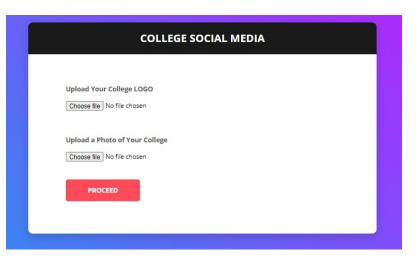
- Anyone can create a college social media application from the website.
- The client will have to provide the necessary data such as
  - College name, about description
  - Image and logo of the college
  - An Excel spreadsheet containing users data
- The data will be passed to the next module in a text file



Page to enter the college details for social media application

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Upload college logo and image



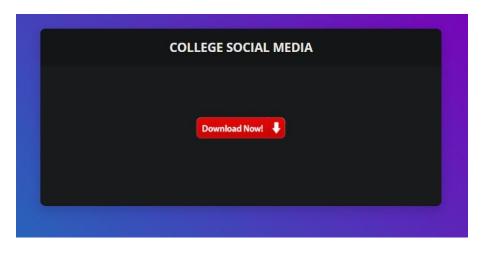
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# **COLLEGE SOCIAL MEDIA** Your data has been recieved. The App will be created using this data. Please click the button below to start the process. **GENERATE APPLICATION**

Click Generate Application for creating Apk



For downloading the Apk file

#### **PYTHON AUTOMATION MODULE**

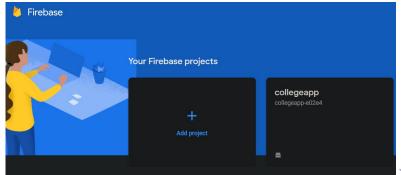
- A python script is called from the website via PHP
- The script will do necessary actions such as:
  - Remove the previous generated files
  - Replace application variables
  - Creates a firebase database according to the data given by the client
  - Generates application icon images
  - Calls "Flutter build" command for generating the app

Function for creating firebase database

App generation

#### **Firebase**

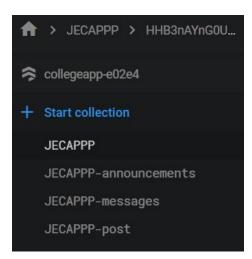
- Firebase server is used for developing the mobile application. It is a Google's platform that helps to quickly develop high-quality apps.
- Only the website maintainer will have to create the firebase server.
- All generated applications will be connected in one server.
  Firebase configuration is done in python script



#### Real-time database

## collegeapp-e02e4-default-rtdb JECAPPP 11111 branch: "cse' email: "jyou1@gmail.com fullName: "akashkumar rollNo: "11" signedin: "T" 11112 11113 11114 11115 validation

#### Firestore database



#### Flutter

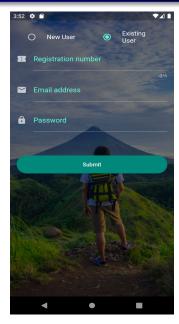


- Application is created using flutter
- Flutter is an open-source UI software development kit created by Google.
- Flutter apps are written in the Dart language

#### **APPLICATION MODULE**

- The mobile application will be connected to the database.
- Only the users in the database will be able to enter into the app by registering their password.
- Users can post images, read announcements, message to friends etc.
- A page for college website and college library will be present in the app.

# Login Page

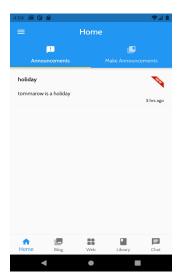


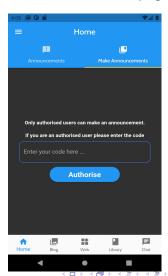
 This is the login page where we can log in using the username and password.

 New user has to be register before logging in

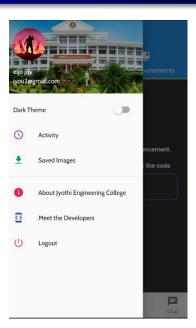
## Home Page

- Home page will be shown after login.
- Announcements can be read and made from home page.





## Sidebar contents



#### Sidebar includes

- User activities
- Details of institution
- Developer details

# Blog

Blog:users can post images with caption in this page



# College Web Page

User can access college web page directly

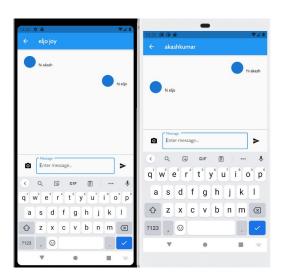


## College Library Page

Users can access college digital library directly

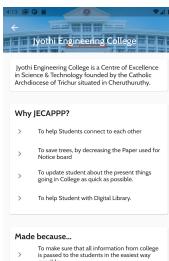


# **Chat Page**



# About & Profile Page

#### Description about the app



possible



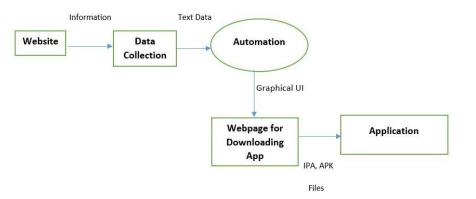
- This is akashkumar, iam a good student
- 02/06/2021

- akashk@gmail.com

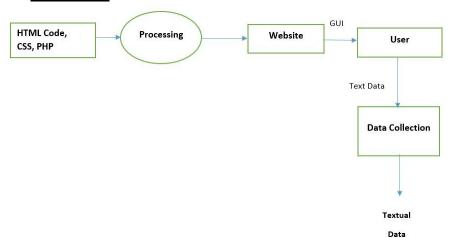
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## **DFD**

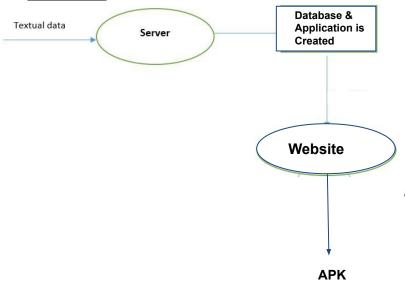
# Level 1



## **Level 2.1**



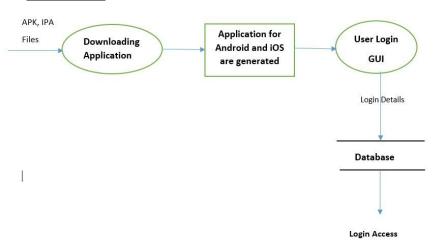
## **Level 2.2**



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## Level 2.3



#### **RESULTS**

- Developed an automated flutter application building environment
- An independent social media application for institutions created.
- Application contains features like posting, chat, announcements etc.

## **ADVANTAGES**

- Reduced cost and time required for app development
- App can be developed by people with less technical know how and poor resources
- Only permitted users by the authority is able to access this application, so it provides better security

#### CONCLUSION

- We aimed at developing a platform for creating an instantaneous closed social media application.
- We developed this service with features such as posting, chat,college web,etc.
- Service can be used for other institutions apart from educational by slight modifications
- In real-time it is preferable to host the service in cloud like AWS, GCP etc

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## **FUTURE WORKS**

- Separate the faculty and student login page
- Additional feature like story, comment, like etc.
- Separate announcement page for admins
- Separate module in website for users to update database
- Configure iOS

## REFERENCE

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# **Thank You**

Any Query