EGRAMAM

PROJECT GUIDE

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INTRODUCTION

- E-Gramam is a system for automating the various services,functions and management activities within a particular village.

- A village is the most basic sector of the hierarchical governance and therefore there are only few areas that is concerned to be managed online while the majority of rest of the services not very well taken care of.

- This system aims to address the difficulties arises during the manual processing of every aspect of panchayath services to citizens and tries to make it more efficient,reliable ,convenient and fast.

PROBLEM DEFINITION AND MOTIVATION

- People in local areas of a village are not often properly and timely informed about various government projects,benefits,and other valuable informations.

- Using this system we can collect and organise the records in a common platform , from all parts of the village ensuring its confidentiality and use the data to identify the people who are most eligible for particular benefits and to maintain an accurate statistics of the financial background and living standard.

- The problems of some of the marginalised sections of the society are not yet fully addressed due to the lack of prior and reliable knowledge,This system can be used to collect true data that depicts the actual living standard and help to implement various plans to upgrade the living standard.

EXISTING SYSTEM

- The existing system is very much manual.There is no a complete online solution to collect and handle the data of a village and process it accordingly.
- The people live in remote areas are not often able to do all the clerical works on time and they may be unable to register with the local self governance to avail the benefits they deserve.
- Managing the data on paper for various purpose may compromise the confidentiality of the data.
- The private online service centres are the another way for helping the process.But it can not be considered as a complete solution as it is not cost effective and convenient for local people.

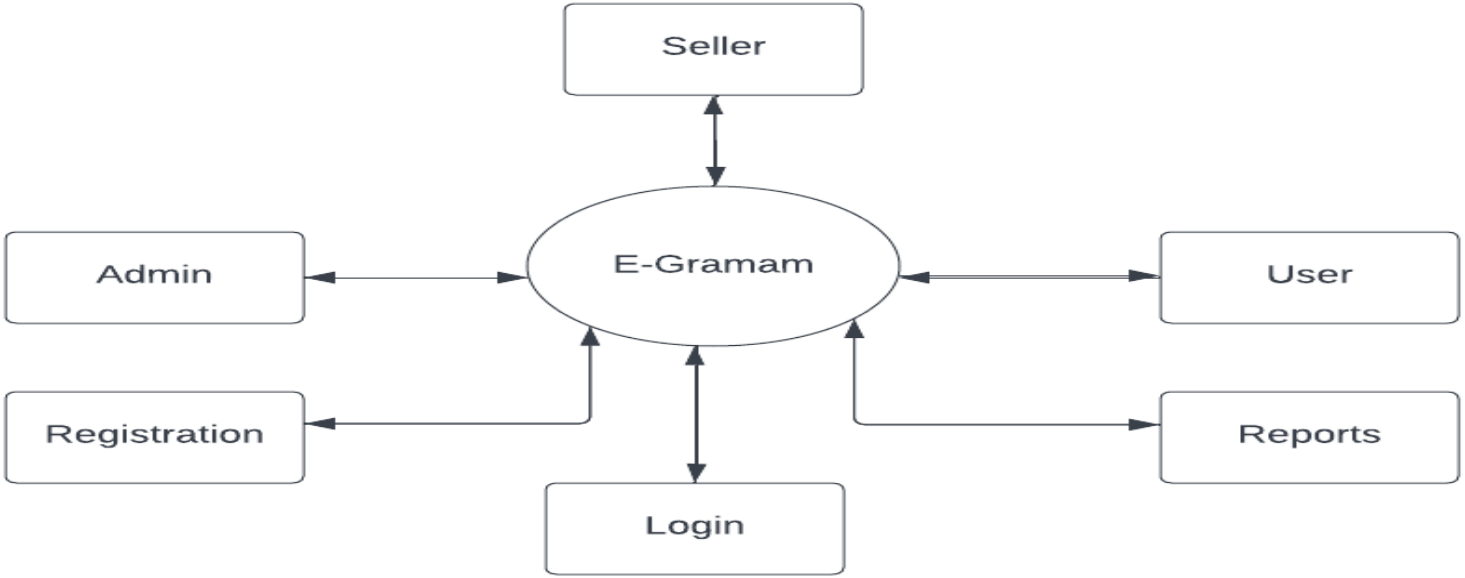
PROPOSED SYSTEM

- The proposed system tries to reduce the human intervention during the handling of the data of the people within a particular village.
- Data can be added by the people themselves ensuring its correctness and they will only be responsible for the correctness.
- It saves a lot of time to register with the system and it can be done anytime from anywhere.
- Proposed system handle data in a more organised way helping authorities and common users to access and process it more easily

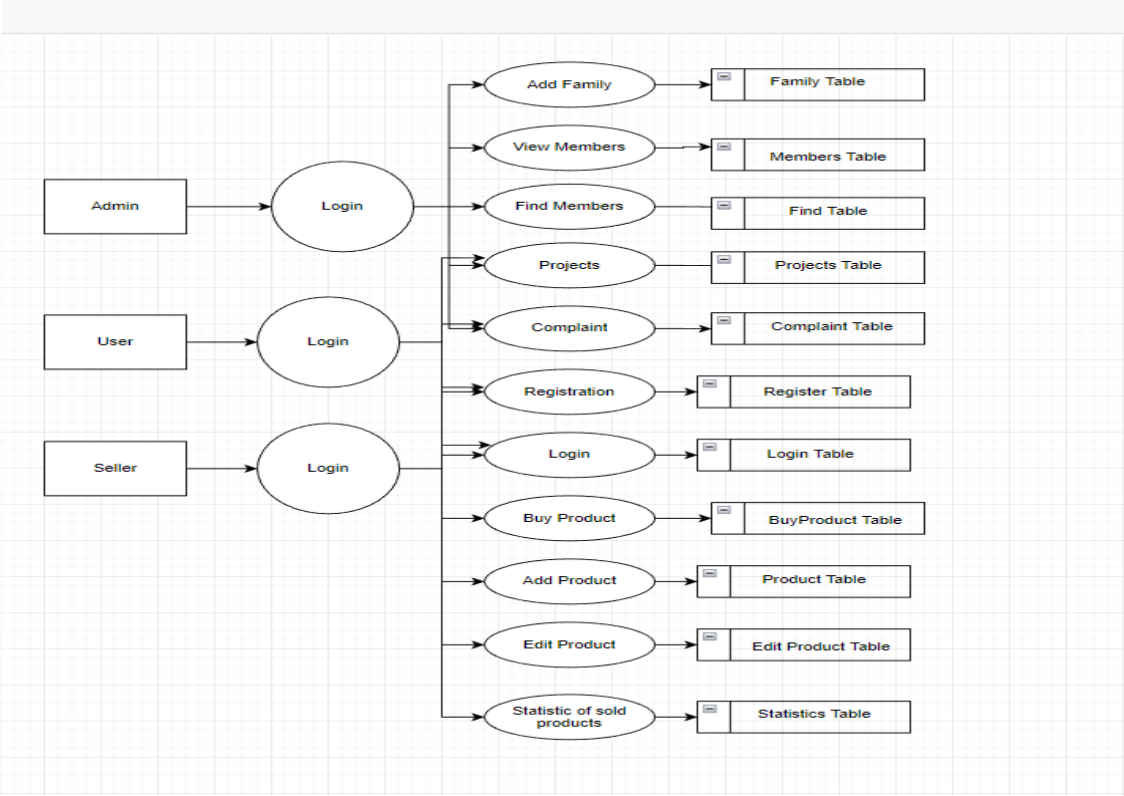
SYSTEM DESIGN

DATA FLOW DIAGRAM

- LEVEL 0 DFD



- LEVEL-1 DFD


Admin
User
Seller
Login
Login
Login
Add Family
View Members
Find Members
Projects
Complaint
Registration
Login
Buy Product
Add Product
Edit Product
Statistic of sold products
Family Table
Members Table
Find Table
Projects Table
Complaint Table
Register Table
Login Table
BuyProduct Table
Product Table
Edit Product Table
Statistics Table

1. ADMIN

Admin is the user of the system who has an overall control of the operations.Admin perform the actions like,

- Adding families.
- View the complaints put forward by user.
- Sort the people based on different parameters.
- Add new members
- Declare new projects

2. USER

Users are the common folk who make use of the system.They can,

- User can store their basic details and register in the system.
- User will be informed about all the operations on time .
- User can ask their queries and concerns to higher officials using complaint form.

3. SELLER

Seller is another kind of user who can register in the E-Gramam system in order to make the trading related operations online which help to implement an e commerce in that particular village,

- Add the products he wish to sell and its quantity.
- Add the details of the product to be sold.
- Edit the details and quantity of the product and update it based on the varying amount of stock.
- Specify the count and the statistics of the products purchased for the users to identify the demand and overall rating of the product.

IMPLEMENTATION

TECHNOLOGIES USED

- **FRONT END: FLUTTER**

  - ❏ Flutter is a software development kit with prewritten code consisting of ready to use and customizable widgets as well as libraries and documentation that together serve to build cross platform apps.

- **BACKEND: FIREBASE**

  - ❏ Firebase is a Backend-as-a-Service (Baas).
  - ❏ It provides developers with a variety of tools and services to help them develop quality apps, grow their user base, and earn profit.
  - ❏ It is built on Google's infrastructure.
  - ❏ Firebase is categorized as a NoSQL database program, which stores data in JSON-like documents.

- **LANGUAGE: DART**

  - ❏ Dart is a client-optimized programming language for apps on multiple platforms.
  - ❏ It is developed by Google and is used to build mobile, desktop, server, and web applications.

- **IDE: ANDROID STUDIO**

  - ❏ Android studio is the recommended IDE for the flutter app development.
  - ❏ It provides code completion, syntax highlighting,widget editing assists,run and debug support, and more.
  - ❏ There is a browser-dev-tools style inspector.

TESTING

Different methods for testing the apps are,

- **Functional Testing**

Procedure	Result
The application installs and launches correctly.	Pass
The users can sign up and login	Pass
Text boxes and buttons work properly	Pass
Push notifications render correctly	pass

- **Compatibility testing**

Procedure	**Result**
The app is compatible with different operating systems and their various versions	yes
The app performs well with varying networks and their parameters	yes
The app is compatible with different browsers	yes
The app is compatible with different devices (screen size, data storage)	yes

- **Performance Testing**

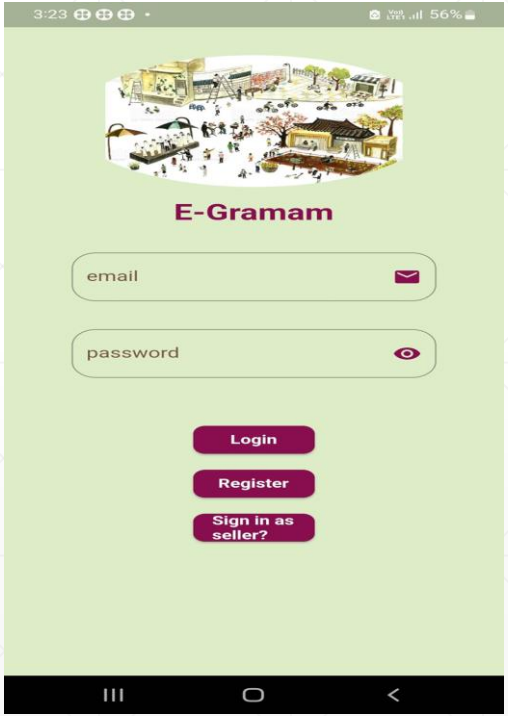
Procedure	**Result**
Device performance	Good
Network performance	Good
API/Service performance	Good

- **Usability testing**

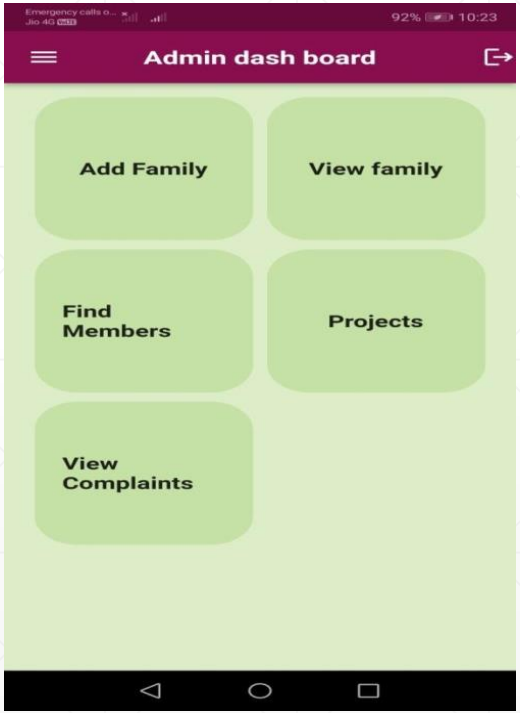
Procedure	**Result**
Layout and design	Good
Intuitive	Good
Response time	Good

SCREENSHOTS

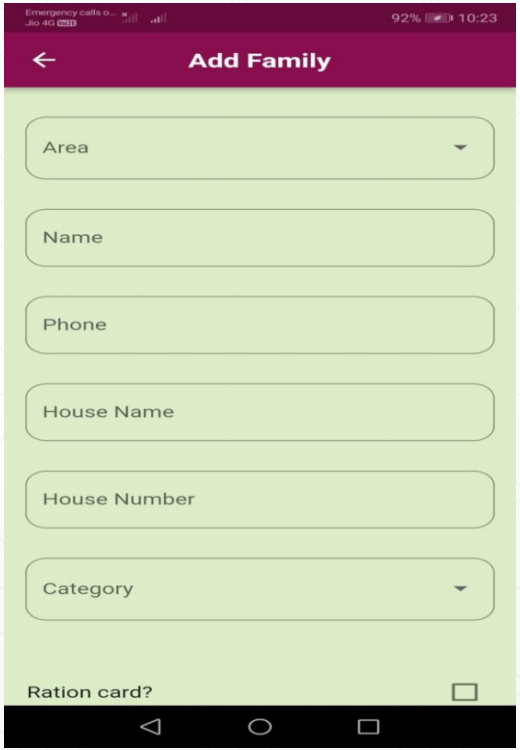
1.Home page



2. Admin Dashboard

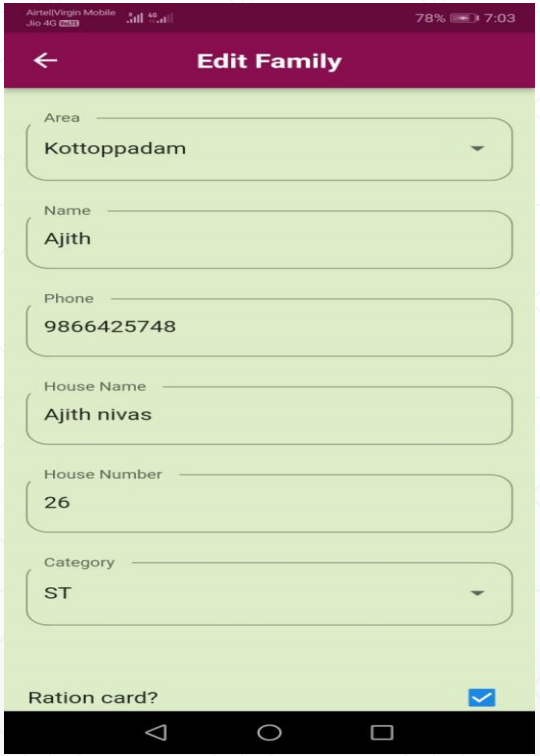


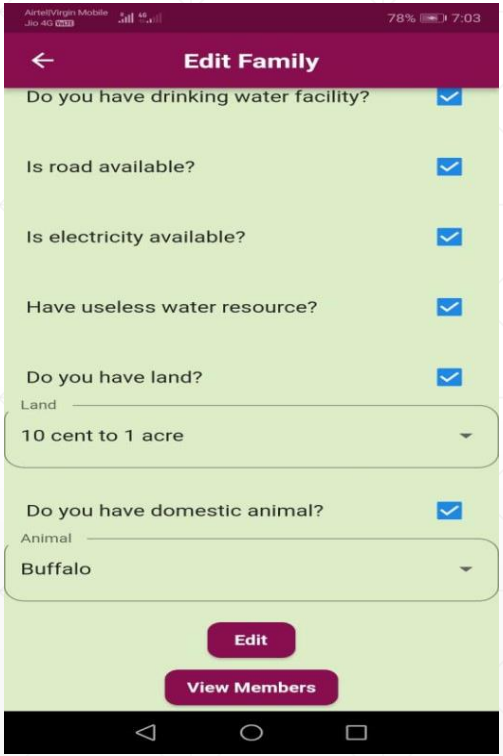
3. Add Family


92% 10:23
Add Family
Area
Name
Phone
House Name
House Number
Category
Ration card?


92% 10:23
Add Family
Do you have own house?
NO
Do you have toilet facility?
Do you have drinking water facility?
Is road available?
Is electricity available?
Have useless water resource?
Do you have land?
NO
Do you have domestic animal?
NO
Submit

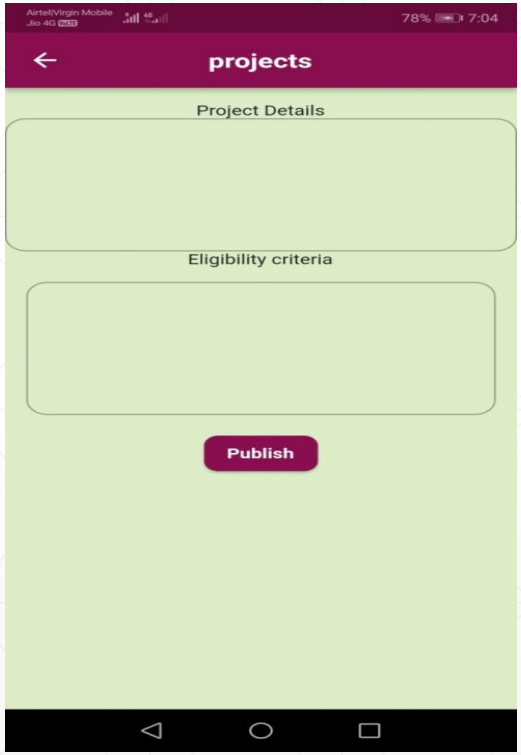
4.Edit Family





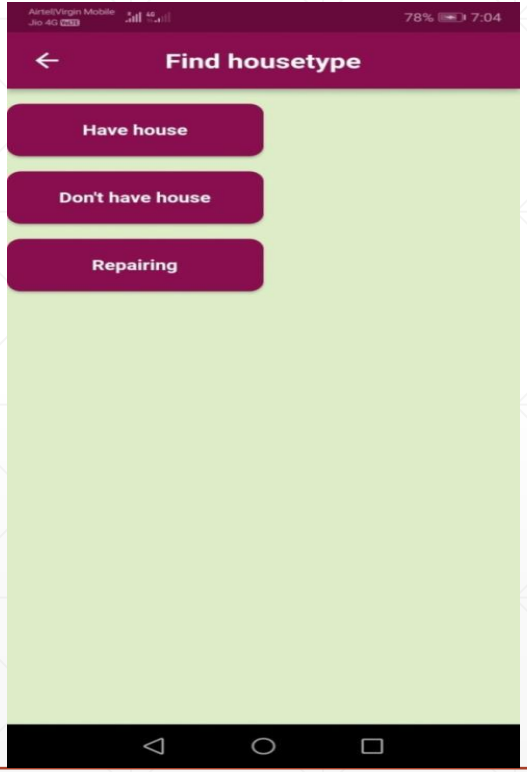
4.View Family

5.Projects



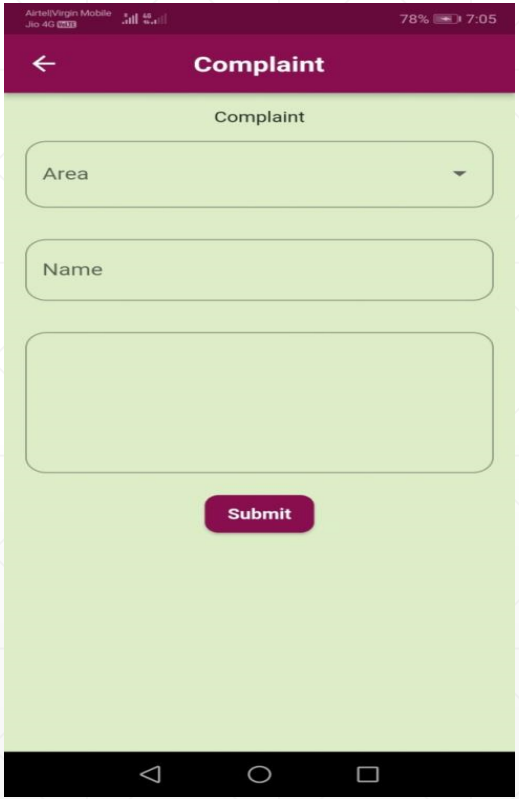
6. Find Members

7. Find Housetype

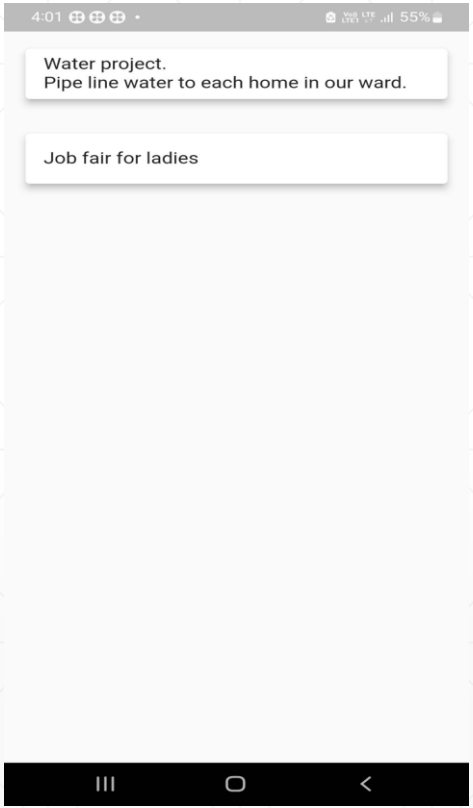


8.User Dashboard

9. Complaint Registration

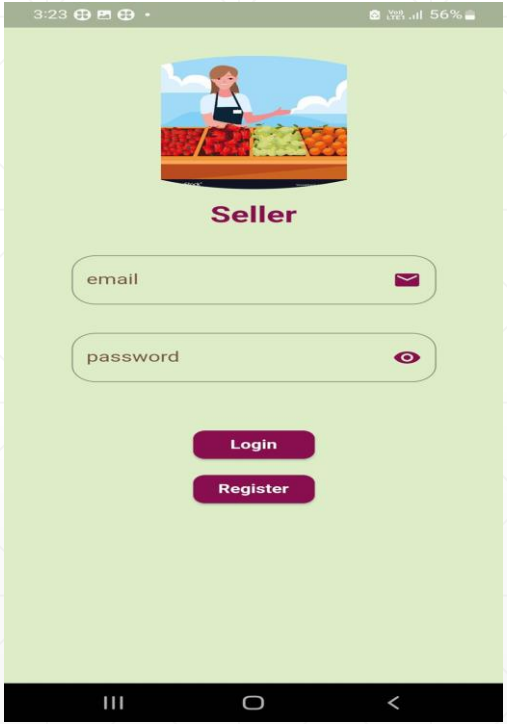


10. View Projects

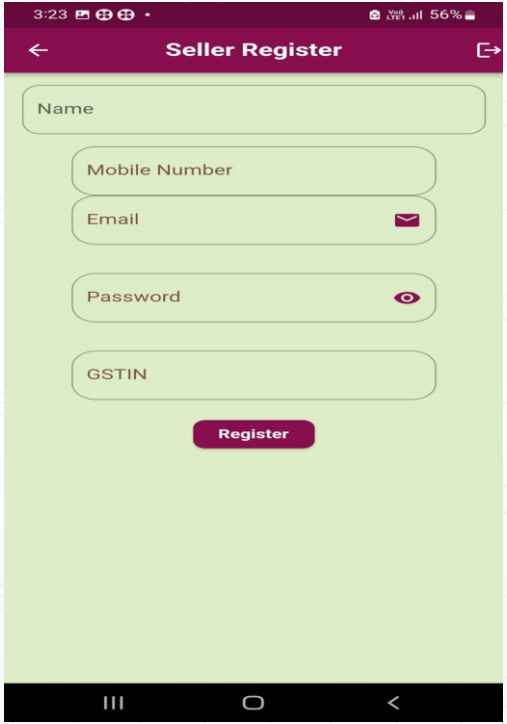


11. Enquiry

12. Seller Login



13. Seller Register



14.Seller Dashboard

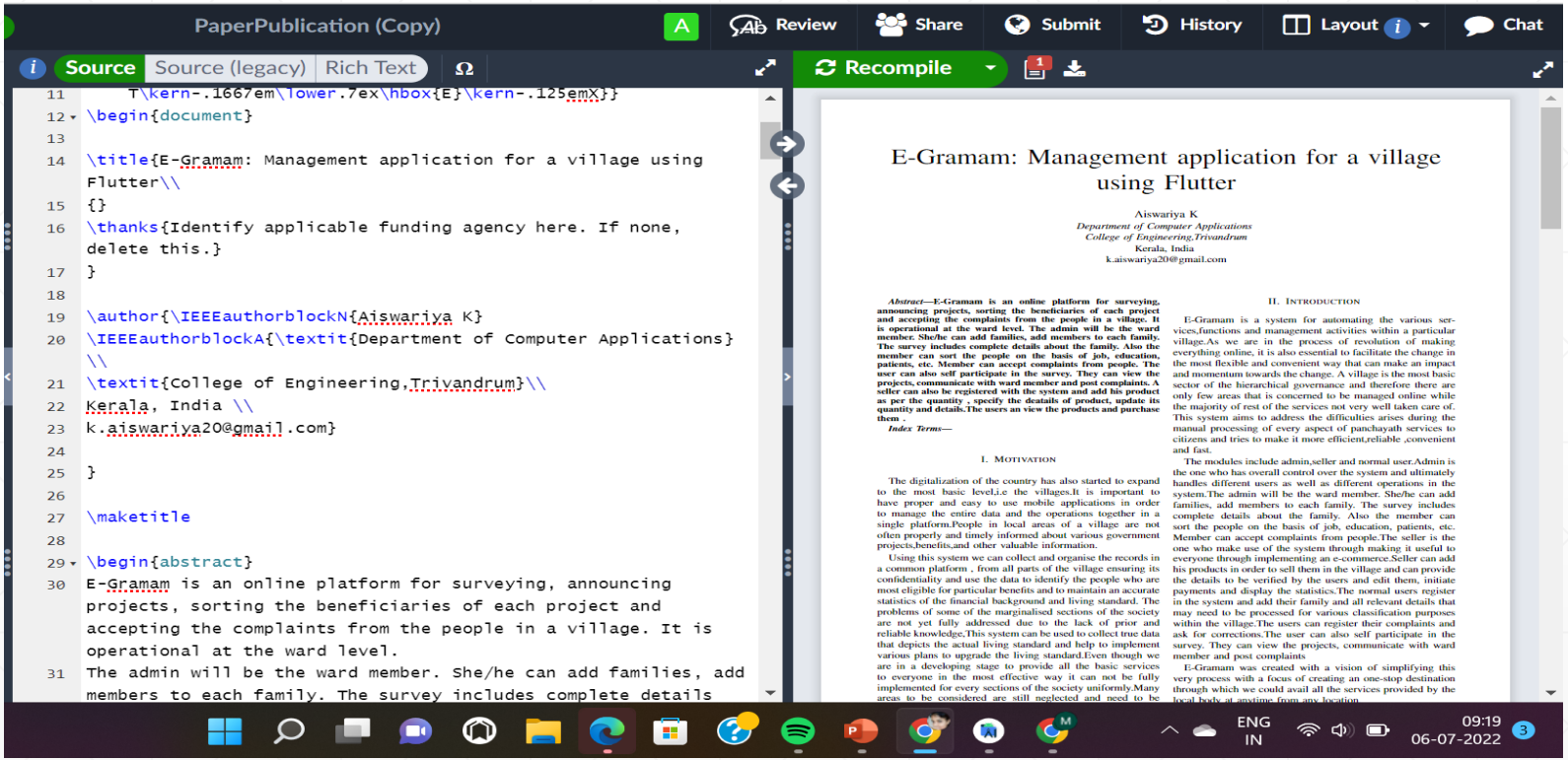
CONCLUSION

- The project entitled “E-GRAMAM” is an online platform for the purpose of handling the data of the people in a village in an effective manner and organising it in productive way.
- It helps the local self governance authorities to conduct survey of the people in the village in an effective way.
- It also helpful for the people in the village who can easily know and contribute to the developmental process of the particular village.
- The application was implemented and tested in real time on the server and it works error free. The system is really user-friendly and it has high protection. All necessary validations are carried out and it is made very attractive with the help of dart and flutter.

FUTURE ENHANCEMENT

- It is possible to empower the people in the village by integrating more e commerce start up proposals which are aided by government and their subsidy can be provided through online payment just by adding their account details which ensures its transparency.
- An addition to the system is by integrating a job portal system to help the the people and can minimise the rate of unemployment.
- It can be used to conduct various surveys within a village just by adding a survey form for any project establishments.

PUBLICATION



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- Pratiksha Dhage , Shital Wathore , Prof. Vidya Jagtap, E-Grampanchayat management system , Open access international journal of science and engineering,2018.
- C.S.R Prabhu, Cost effective solution for effective e-Governance-e-Panchayat, Computer society of india,2017.

THANK YOU