Ministry: Ministry of Housing and Urban Affairs

PS Code: BV803

Problem Statement Title: Suggest a solution to help the ULBs/State/UT Governments to monitor or control the growth of slums in the country and develop a self-sustained environment to ensure affordable housing in order to avoid growth of slums in future.

Team Name: Team SyncFusion

Team Leader Name: Sumit Teli

Institute Code: 028

Institute Name: L. D. College of Engineering

Idea/Approach Details

Describe your idea/solution/prototype here:

❑ **With the ever increasing problems in slums, we aim to provide solutions for the government to effectively control and monitor the various adversities faced by the poverty stricken slums.**

❑ **Our proposed solution involves the geo-mapping of slums across numerous cities. We plan to provide an unified platform where the government bodies can easily monitor the progress of the development of the slums.**

Describe your Technology stack here:

❑ **Flutter**
❑ **Dart**
❑ **SQLite**
❑ **OpenStreetMaps API**

Describe your dependencies / show stopper here:

❑ **Existence of redundant and/or incorrect data which can cause problems with identifying the problems related to the data set.**
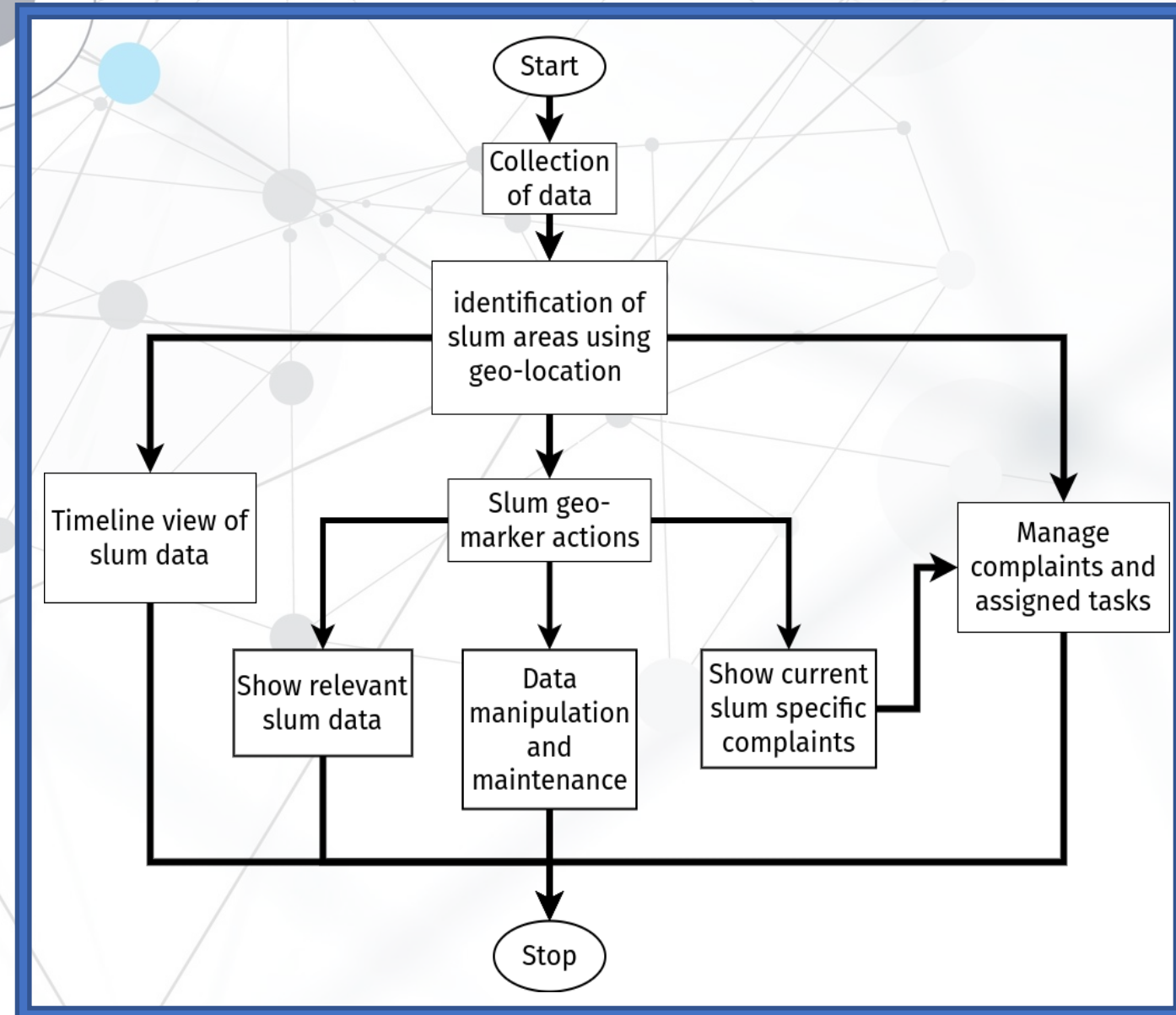
Flow Chart

Describe your use cases here:

Our application is a highly confidential work for the government, it has no client side. The admin side has various functionalities like:

1) Simplified geographical view of slums.

2) On-demand detailed data on slum organization and facilities.

3) Live updating of slum data representation.

4) Monitoring of operations of slum up-gradation and problem resolving.

Link for Prototype Demonstration:

Click here to watch this video

Team Member Details

Team Leader Name: Sumit Laxmanbhai Teli
Branch: BE **| Stream:** CE **| Semester:** IV

Team Member 1: Yash Kiranbhai Ahir
Branch: BE **| Stream:** CE **| Semester:** IV

Team Member 2: Shruti Dineshkumar Prajapati
Branch: BE **| Stream:** CE **| Semester:** IV

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Team Member 5: Himadri Vinayak Mukadam
Branch: BE **| Stream:** CE **| Semester:** IV

Team Mentor 1 Name: Kalpesh Patel
Category: Academic
Expertise: Distributed computing and system software
Domain Experience (in years): 22 years

Team Mentor 2 Name: Hetal Pandya
Category: Academic
Expertise: IOT
Domain Experience (in years): 17 years