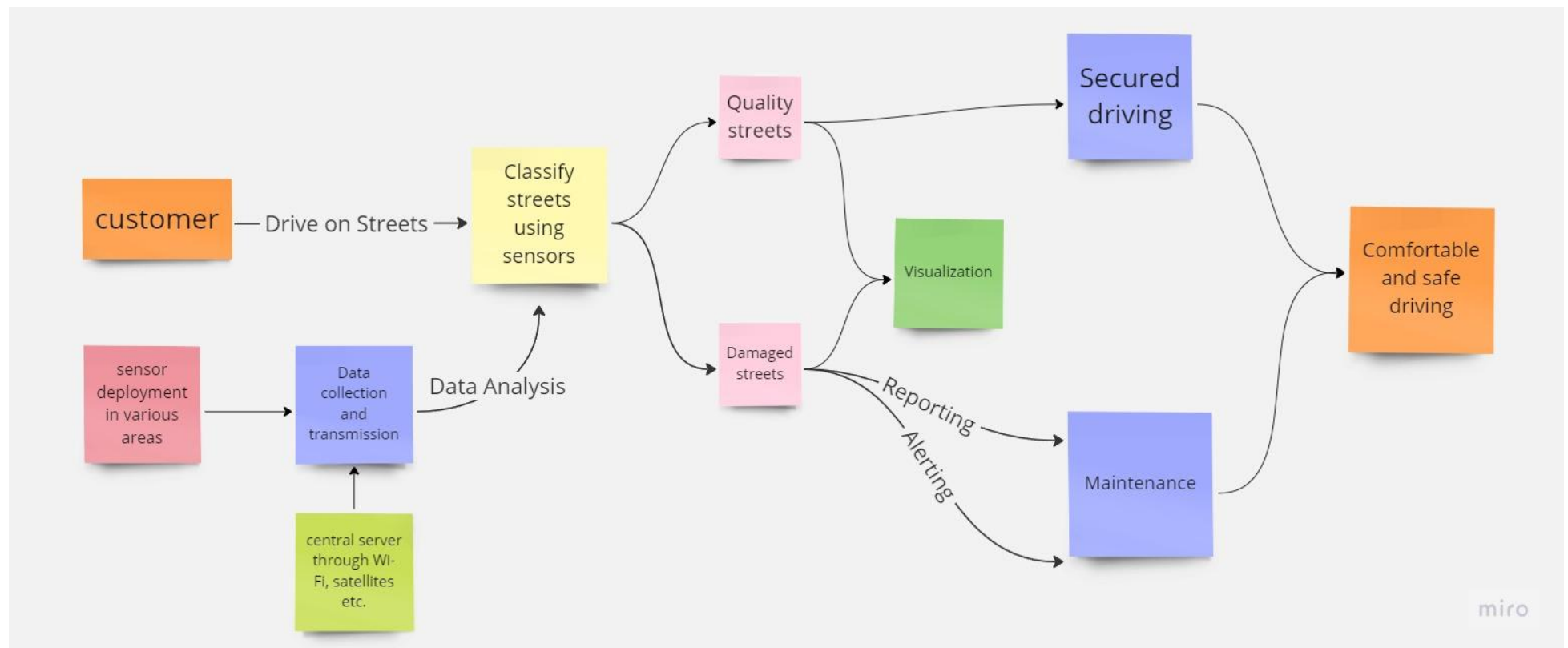


Project Design Phase-II

Data Flow Diagram & User Stories

Date	12 May 2023
Team ID	NM2023TMID22230
Project Name	Project - SQUID: Street Quality Identification

Data Flow Diagram:



User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
City Residents	The mobile app should allow users to submit pictures and descriptions of the street quality issue, along with their location data.	USN-1	As a city resident, I want to be able to report poor street quality through a mobile app, so that the city can efficiently prioritize repairs and maintenance.	The app should be easy to use and intuitive, and should provide confirmation that the report has been submitted successfully.	High	Shruthi B K
City Planners	The system should store all street quality data in a central database that can be easily accessed and analyzed.	USN-2	As a city planner, I want to be able to access historical street quality data, so that I can make informed decisions about future infrastructure investments.	The database should be easy to navigate and search, and should provide useful data visualizations.	Medium	Shruthi B K
Business owner	Map of parking spots near businesses.	USN-3	As a business owner, I want to be able to view a map of parking spots near my business, so that my customers can find parking more easily.	Map should be easy to navigate and show locations of parking spots near businesses.	Low	Shruthi B K
City Government	The IoT sensors should be able to detect and report on a range of street quality issues, such as cracks, and uneven surfaces.	USN-4	As a city government, I want to be able to track and monitor the condition of all streets in the city, so that we can allocate resources for repairs and maintenance.	The sensors should be able to accurately detect street quality issues, and should be able to report this data back to a central dashboard.	High	Vinitha K

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Delivery driver	Map of loading zones and parking spots.	USN-5	As a delivery driver, I want to be able to view a map of loading zones and parking spots, so that I can make deliveries more efficiently.	Map should be easy to navigate and show locations of loading zones and parking spots.	Medium	Vinitha K
Tourist	Map of popular attractions and landmarks	USN-6	As a tourist, I want to be able to view a map of popular attractions and landmarks, so that I can explore the city more easily.	Map should be easy to navigate and show locations of popular attractions and landmarks.	Low	Vinitha K
Pedestrian	Mobile app for reporting street quality issues	USN-7	As a pedestrian, I want to be able to report potholes and other street quality issues using a mobile app, so that the city can address them in a timely manner.	App should allow users to easily report street quality issues and send a notification to the city government.	High	Pavithra B
Public transit user	Map of bus and train routes	USN-8	As a public transit user, I want to be able to view a map of bus and train routes, so that I can plan my commute more easily.	Map should be easy to navigate and show routes for different bus and train lines.	Medium	Pavithra B
Cyclist	Map of bike-friendly streets	USN-9	As a cyclist, I want to be able to view a map of bike-friendly streets, so that I can plan my route more easily and avoid unsafe roads.	Map should show bike lanes, routes, and trails, and highlight unsafe streets.	Low	Pavithra B