



Project SLVP

A step towards Smarter Governance

Event Organizers



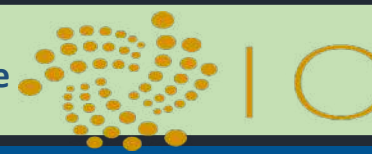
Venue Support

Tech
Mahindra

Team Members and roles



Member Name	Role(s)	Skills
Deepak Bhattad	Author	Project Management / Business Consulting
Vamsi Krishna	Product Management	Product Management / Project Management
Sreenivas Chinni	Architecture	Solution Architect
Pavan Raju	Front End Development	Angular, HTML, CSS & Bootstrap
Manoj Kumar Chaluvadi	Back End Development / Middleware Development	Mainframes, Ethereum, Hyperledger, Dot Net Stack
Kiran Pochiraju	Machine Learning Expert	ML expert
The Team	Testing	NA



The problem being addressed

- Law is meant to bring in equality amongst people from different walks of life, from different cast, creed etc.
- Law brings in safety and aims to protect the basic rights of the citizen of the country
- However people always look at ways to break law for various reasons.
- Any law when being enforced brings with it a lot of overhead to ensure its enforced in true sense and abided by. Huge Costs and effort is spent to prevent law violation and to prove the guilty and penalise him accordingly.

Stake Holders Involved

- Law enforcement dept.
- Public
- Government
- Law Creation dept.

Proposed Solution

Focus in on Traffic Violations.

- The smart cameras capture the images and recognise the number plates of the vehicles
- The law enforcing department will have its own IRI node running that will further store this data on to the tangle.
- Once the data is finalised on the tangle a challan is generated and emailed / messaged to the violator.

Applicable Industries

- Government
- Public Utility Service Companies

Benefits

With the advent of Internet, Smarter Devices, Sensors, Drones, Artificial Intelligence and Blockchain we foresee a future wherein proving law violation can be dealt with at lesser cost and effort and when enforced strictly can eventually lead to better law abidance and a desired civil life.

Competitors

- Govt. IT department
- Law Enforcing IT Department

MVP Scope for Phase

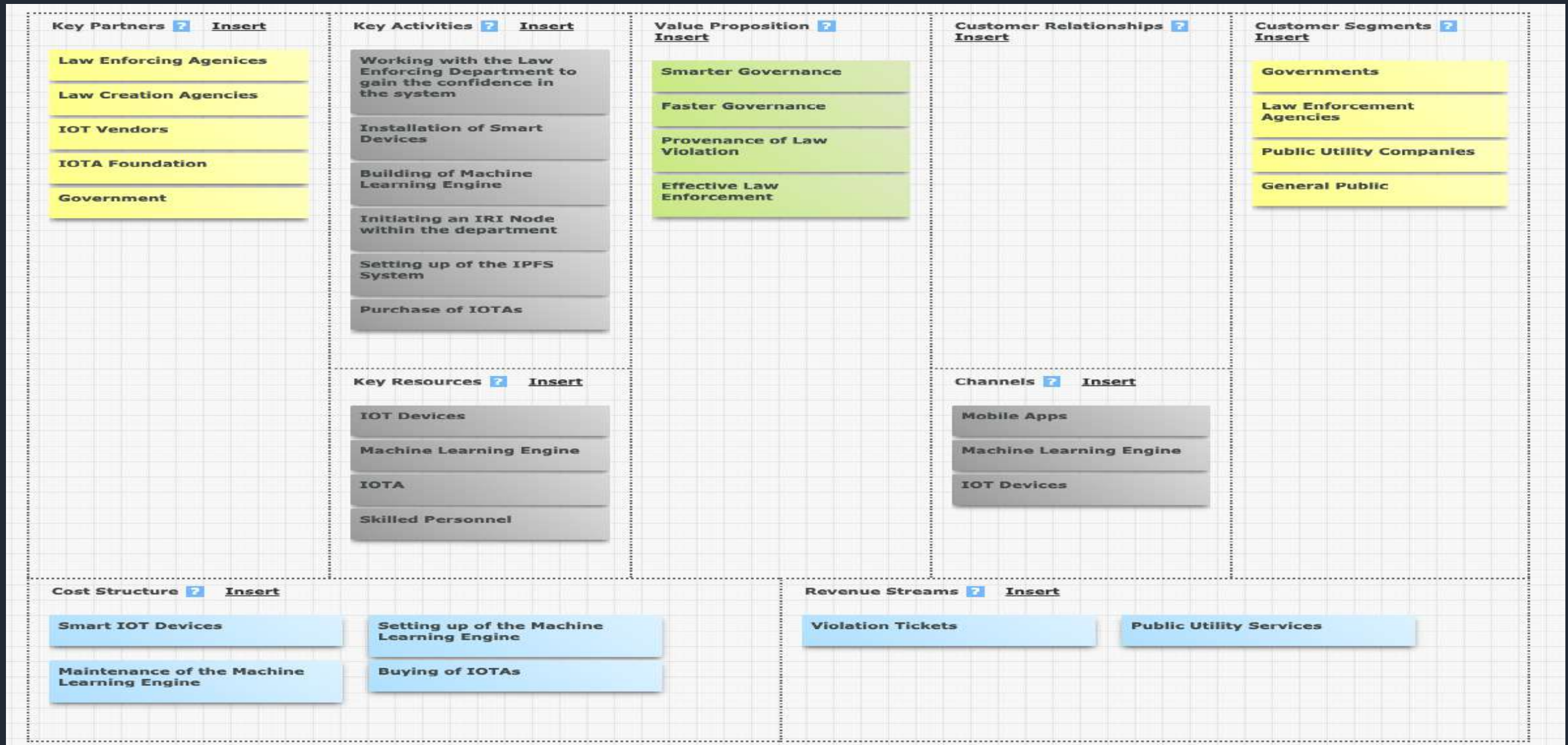


❑ Traffic Violation Determination and Provenance

- ❑ The scope of this project is to detect and determine any traffic violation.
 - ❑ Use Smart Cameras to detect violation
 - ❑ Captured image is stored in IPFS system and corresponding transaction on IOTA tangle
 - ❑ Customer must be able to access traffic department webpage URL to search violation records based on his vehicle plate number
 - ❑ Traffic Admin must be able to search based on customer vehicle plate number, date, location, appeal so that he can see view corresponding violation records.



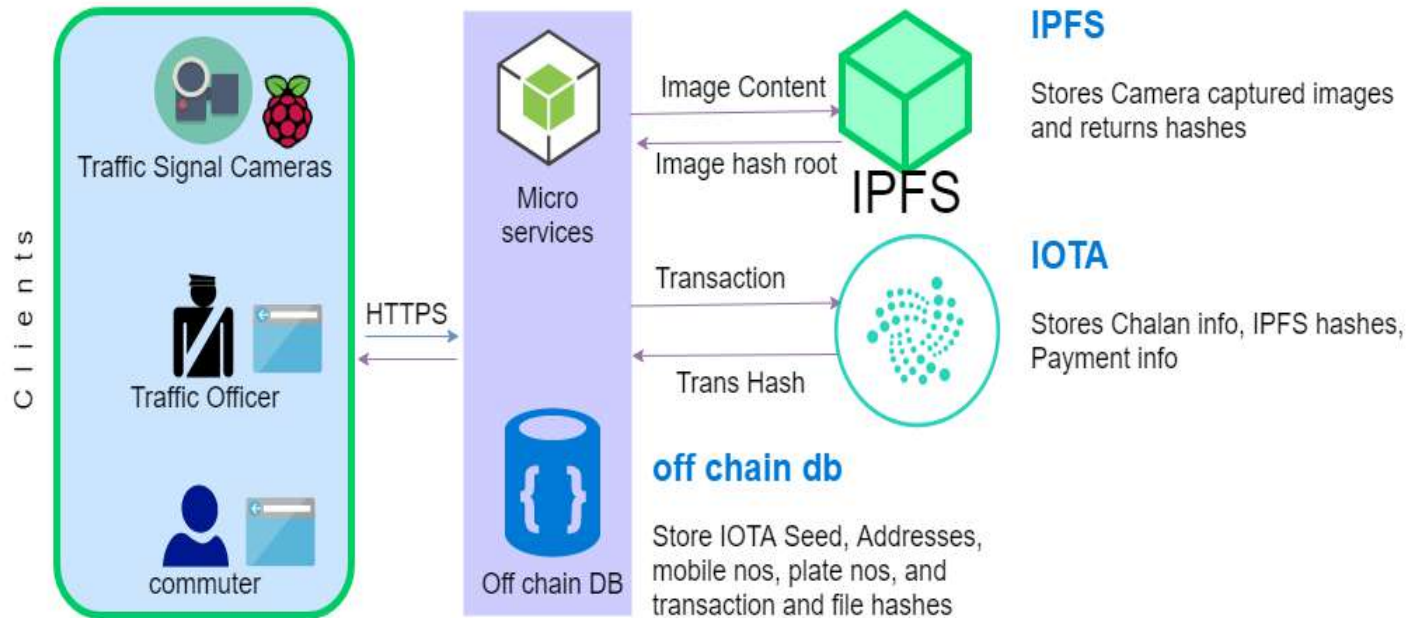
Business Model Canvas



High Level Architecture & Tech Stack

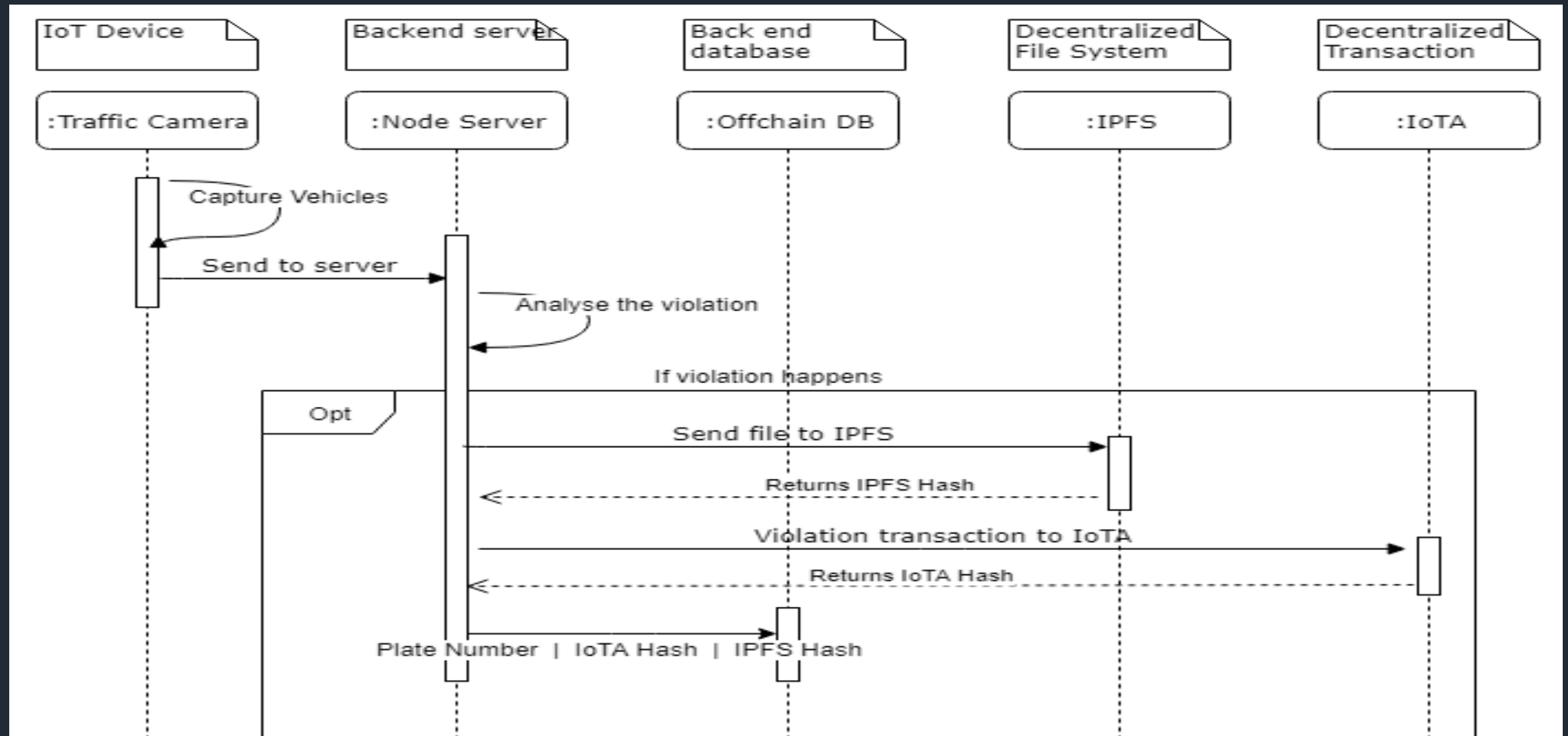


Traffic violation Project Architecture

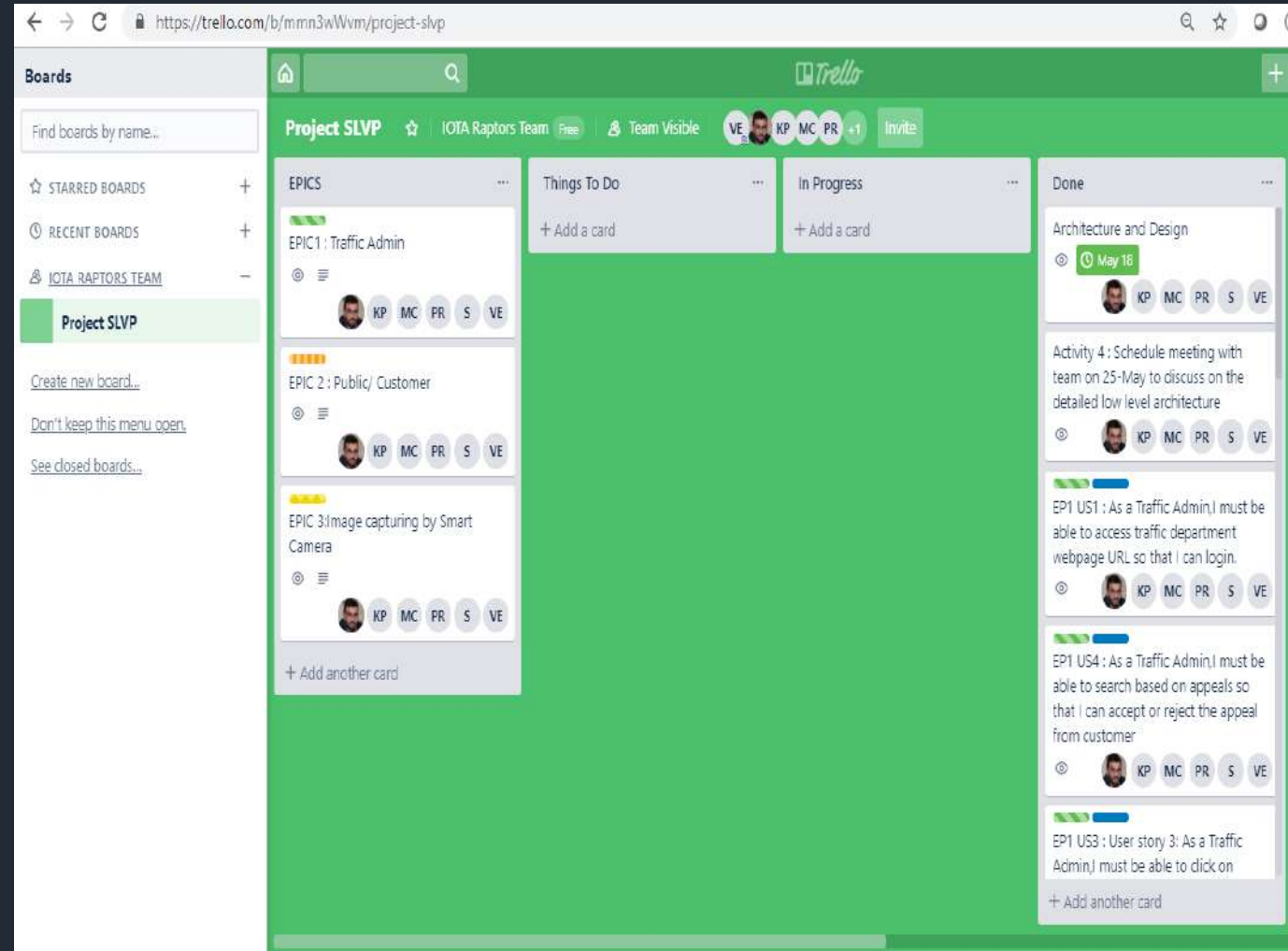
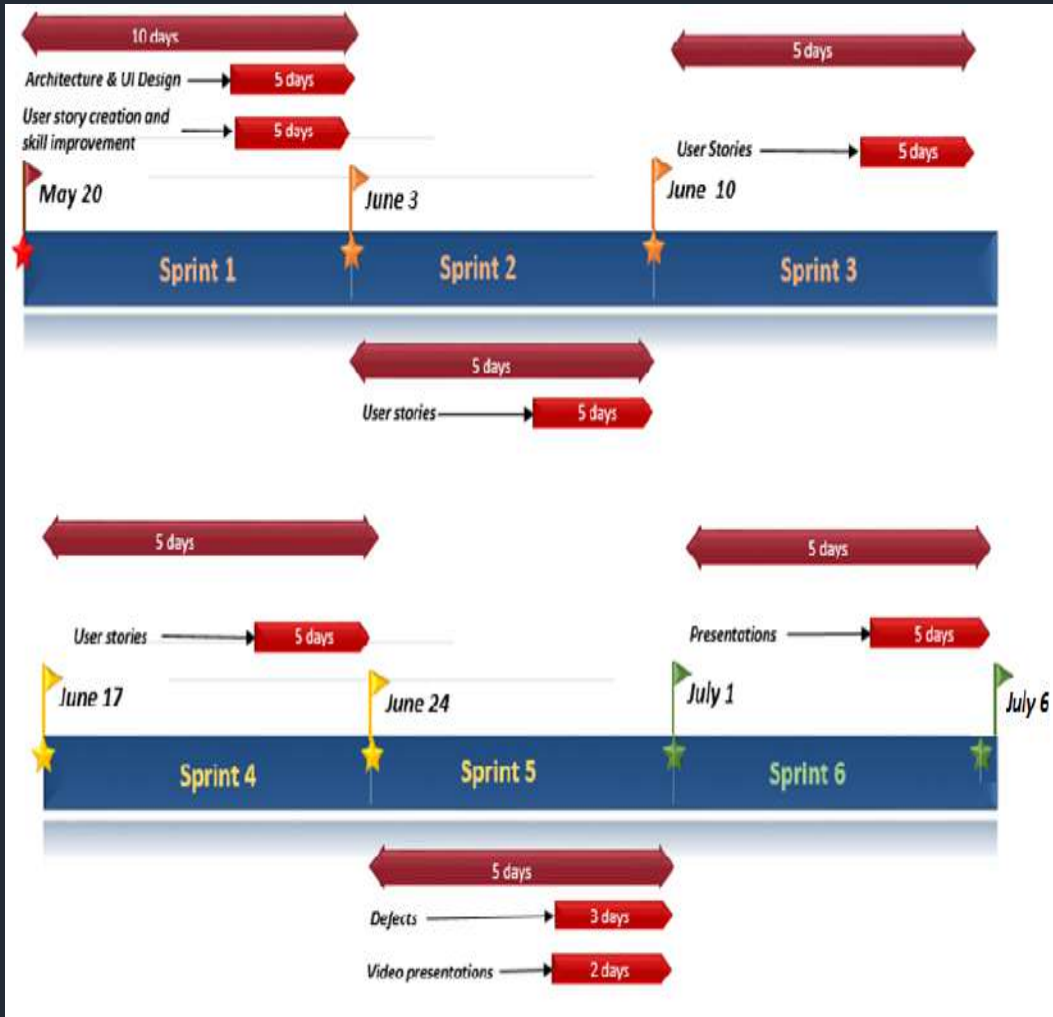


Offchain DB	Mongo DB
Repository	GitHub
Web Design	angular 7 and angular material and WEB View for android
Back End	node.js
REST services	express.js
IOTA	IOTA.js
IPFS	JavaScript
Agile Project/Task Management	Trello
Editor	Visual studio

Sequence flow Diagram



Project Planning and Management



SLVP Application Demo

WHY? WHO? WHERE? WHICH? WHEN? WHAT?





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THINKING BREAKTHROUGHS

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