

Smart India Hackathon 2017

Online Toll Payment System

Problem Statement :

1-2 km before the toll plaza, a notification should be received on the mobile phone of the approaching user with Toll Name and amount of applicable Toll Fee.

Payment can be facilitated through mobile wallets and credit cards payment integration. An electronic receipt be generated, with bar code/QR code which can be shown at the Toll Booth. A list for all the toll plaza and respective services to be made available in the app.

Solution :-

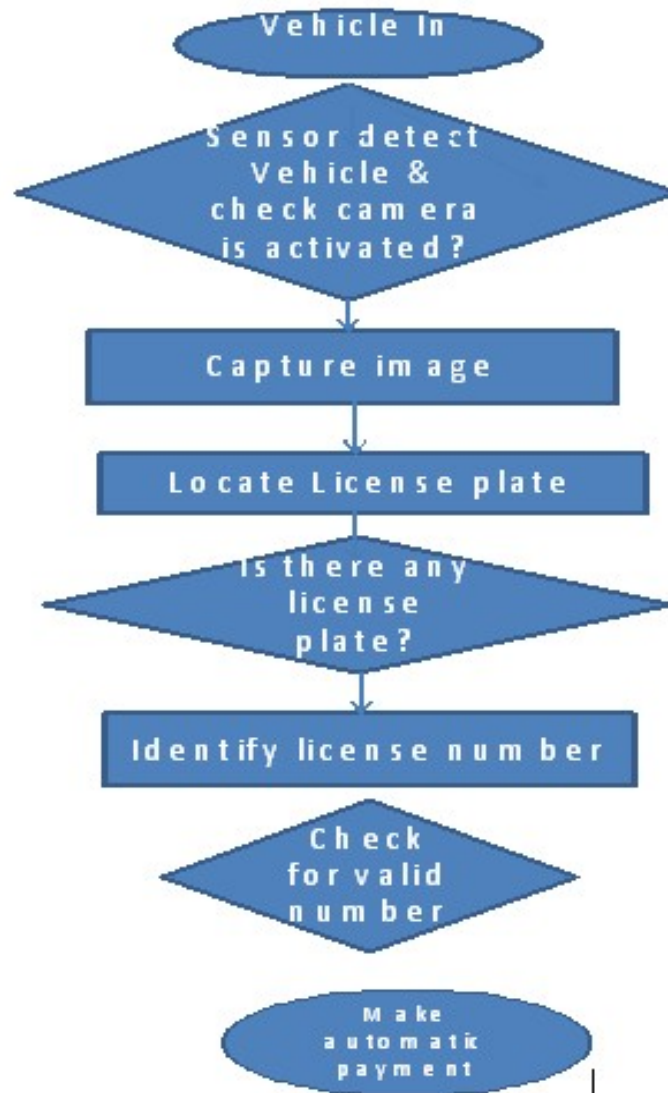
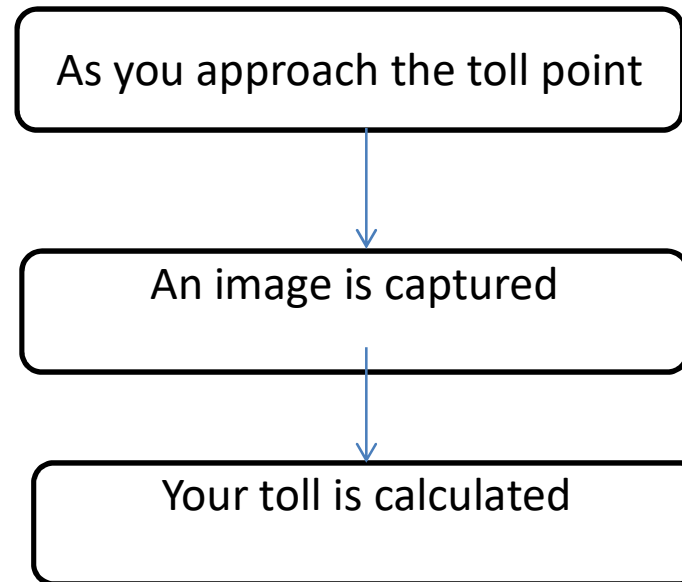
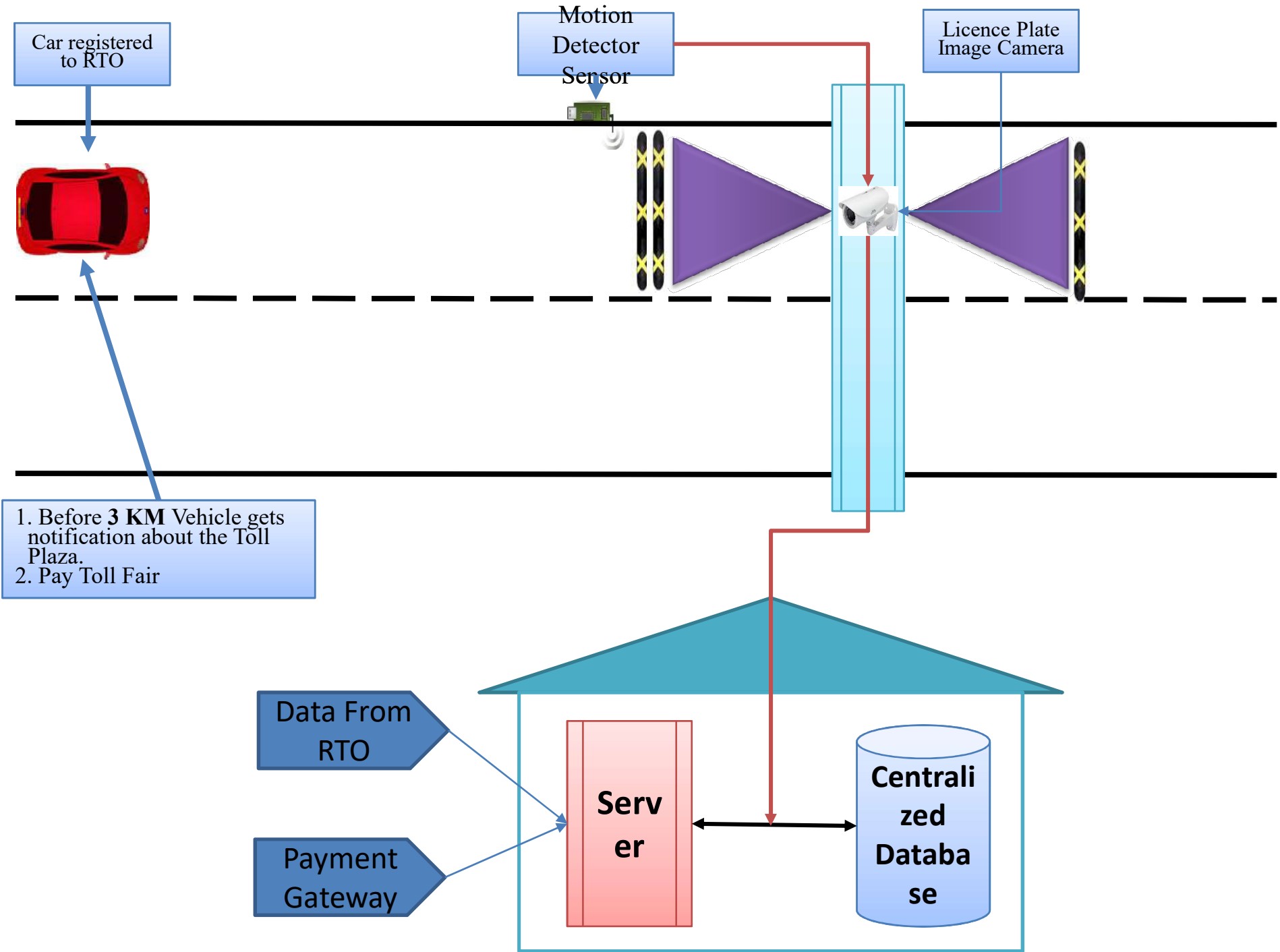


Image Processing :-



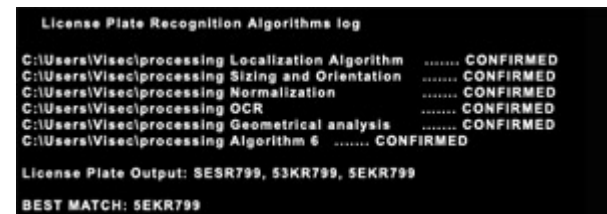




1. License Plate Localization

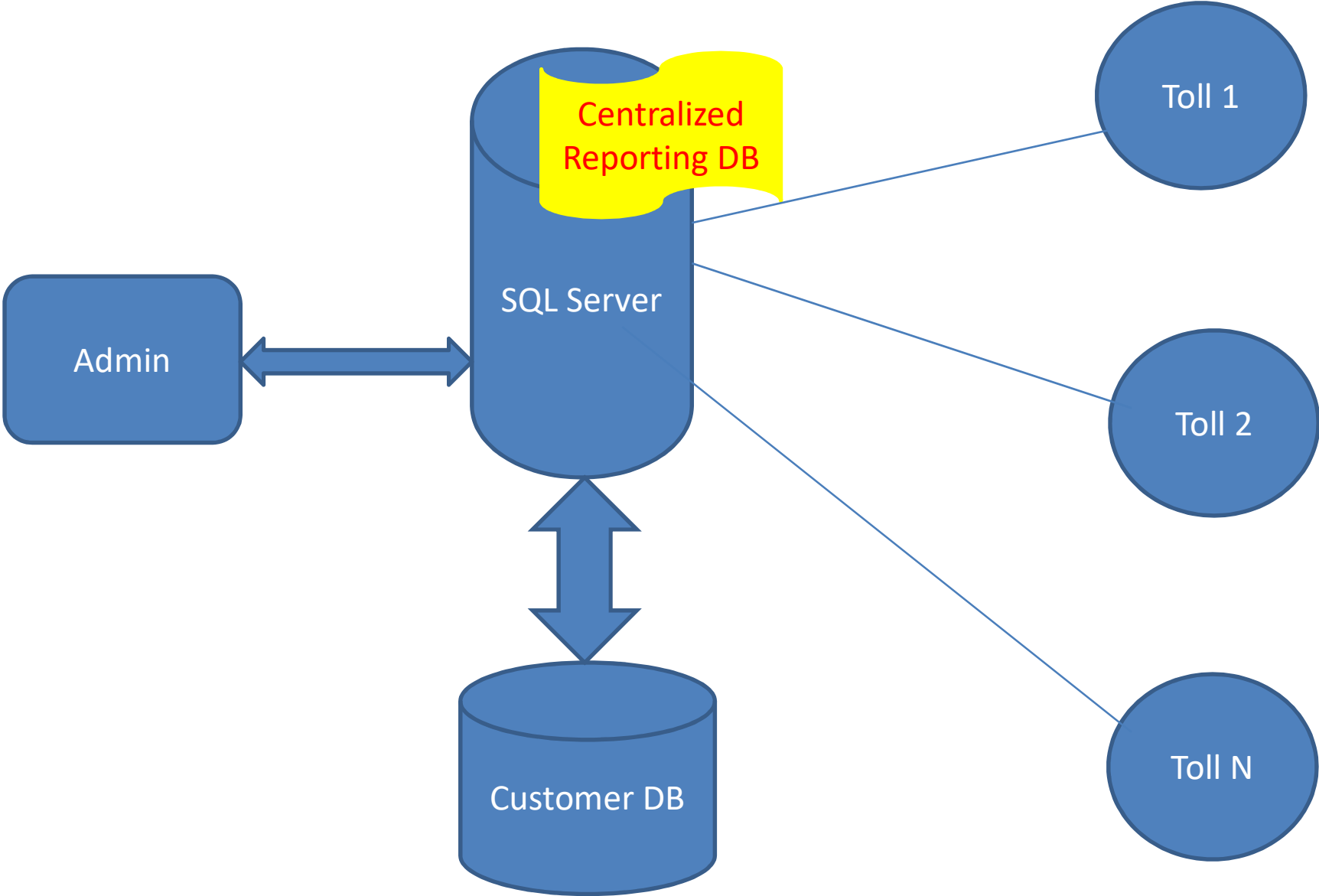


2. License Plate Sizing and Orientation



3. Analysis

Improved Database System:-



Benefits:

- Faster n more efficient service.
- Better audit control by centralizing user accounts.
- Expand capacity without expanding more infrastructures.
- The ability to makes payments by keeping balance on the register account.