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**(IT DEPARTMENT)**

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Detailed Guidelines for Development of Vehicle Tracking Application.

1. About project: Vehicle Tracking System/Real Time Trip Information System, thorough map provides complete picture of operation of bus and enhanced level of services to the commuters. Real-time of Arrival will be displayed in the APP, which informs passenger about the time that a bus will arrive at a bus stop, rather than the scheduled time. It makes effective crew/fleet planning, increase in productivity, reduction in travelling time to passengers and effective transport management.

2. Scope of the Project:

**a) Vehicle tracking through map.**

**b) Integrate with existing AWTAR system.**

(Note: About AWTAR System: KSRTC have a web based passenger seat reservation system (AWATAR – Any Where Any Time Advance Reservation) since April 29, 2006, which is used by NWKRTC also. This provides advance booking of seats to passengers in Buses. AWATAR application was developed in Java platform using My Sql as database. Through this system, the trip sheet will be generated by adding vehicle and conductor mobile number, before 30 minute departure of Bus. Consequently a SMS is sent to the passengers containing vehicle number and conductor mobile number.)

3. Access, Roles and Users :

Entire set of applications their features shall provide for various levels of secure access based on defined roles and responsibilities within NWKRTC based on units with roles and privileges.

(For e.g. Administrator user must be provided, who will create sub users and information shall be modified by Administrator only. Sub user is Traffic controller working in AWATAR counter, who will update bus number and mobile number of conductor. After that trip sheet is generated)

4. Requirement:

**Before Integration with AWATAR system.**

a) Ability to locate specific bus in real time through map.

b) The tracking feature will be made accessible to passengers by a web link and APP.

- c) Passengers should track the bus by entering conductor mobile number or bus number, with the help of web link or APP.
- d) Passenger should see only his/her bus in the map.
- e) Should provide Administrator login, Traffic controller login and conductor login.
- f) Administrator login should have all control over APP. Who can create/ modify Traffic controller login and conductor login users, depends upon requirements.
- g) Traffic controller will enter conductor mobile number and bus number after generation of trip sheet.
- h) Conductor should login when bus start from the bus stand, should configure with GPS location of his mobile.
- i) By Default the bus tracking should be logged off at 15 hrs from the trip sheet generated time.
- j) The vehicle tracking application should be accessible through the internet to a NWKRTC user / passenger. Further the access should be possible through popular browser interfaces such as Internet Explorer, Firefox and Google Chrome to the users located across the various locations in the State. The Graphical user interface shall be browser based and intuitive.
- k) The system shall support minimum 50,000 concurrent user transactions with minimum 1000 vehicles information.

**After Integration with AWTAR system.**

- a) The webpage link will be sent to the passenger as SMS along with Vehicle number and Conductor mobile number.
  - b) With this link passenger can track his vehicle location through conductor mobile location.
5. APP should be available on play store for download.
  6. NWKRTC will provide URL address.(domain name)
  7. The selected APP will be awarded with cash prize of Rs.50000/- and certificate.
  8. Criteria for evaluation of software : Performance of application, design of application, app start-up, battery time while using an app, memory consumption, app in background and error free and user friendly.
  9. The cash award will be issued through concerned college.
  10. The selected student/college should submit the source code and should give training to NWKRTC staff.

ANNEXURE:

Detailed Timeline

Date	Activity
08-08-2022	Announcement of contest – inviting queries regarding the contest
17-08-2022	Close of queries
25-08-2022	Issue of detailed guidelines
10-10-2022	Deadline for submission and demonstration of project
15-10-2022 to 25-10-2022	Successful team will provide training to in-house technical HR for maintenance