System to inform public the cost of service

The purpose is to provide a invoice to the patient party indicating cost of service availed, with the idea of making the public aware leading them to 1) appreciate the service 2) understand that it is a waste of public funds if the service is misused.

Requirement

1) Application backend must run in a centralised server at 1990 Headoffice. It will need to connect to already available systems such to obtain info such as distance traveled, cost of materials used etc. As the invoice is to be printed once the patient is attended to and prior to returning to base the distance to be travelled to reach the base will need to be estimated, a percentage of the first leg distance can be used.

2) The frontend (invoice app) will run on the Android based tab in the ambulance. A thermal printer will be fixed in each ambulance for printing of invoice. The printer will be connected to the tab via Bluetooth.

3) EMT and Pilot will require to signin to the system at star of work shift and signout at end of shift.

4) After the patient is transported to a hospital, or attended at location (where hospitalisation is not necessary) the EMT will enter information such as EmergencyTYPE (dropdown menu), caseID, caseTYPE (drop down menu), medicineUSED (drop down menu and quantity), materialUSED (drop down menu and quantity), etc to the frontend app to generate the invoice.

5) The option should be available to generate and invoice without printing same. Option should be available to reprint an invoice.

6) The option of printing the invoice in English, Sinhala or Tamil must be available.

7) EMT will require confirm if the invoice was handed over to patient party or not. Incase it is not handed over there will be a fixed set of reasons on a dropdown menu for indicating the reason for not handing same over (eg in an accident case there maybe no one to hand over the invoice)

8) All invoices generated will be logged in the central server. Facility to obtain MIS reports on same will be required

9) Backend will interface with other systems.
    a. The EMT will enter the caseID in the Invoice App. The backend will through an API will pull the distance travelled by the ambulance on 1st leg (base to patient location and to hospital) from the Emergency Dispatch Management System. The distance from Hospital back to base, 2nd leg, can be estimated as 2/3 of 1st Leg. Rate per km travelled will be maintained in the backend and access should be there to change same from time to time.
    b. Backend will update through an API the ambulance stock management system of medicines and materials used. To prevent double entry, EMT will only enter medicine and material used in the Invoice App
    c. The cost of medicine and materials will be maintained in a table in the backend. This table can be accessed to calculate the cost. An API should be provided to update the cost table (the accounting system has the capability to update the table daily through an API)
    d. Service fee will be calculated considering the time spent on the case. The time the case was assigned can be obtained from the Emergency Dispatch Management System. Hourly rate for the service will be maintained in the backend and access should be there to change same from time to time.

EMT: Emergency Medical Technician

Pilot: Ambulance Driver who is also trained in assisting the EMT

Invoice App: Application for printing invoices running on the Android Tab in ambulance

EmergencyTYPE: type of emergency as specified in our systems.

caseID: unique case ID assigned to each case

caseTYPE: type of case based on method of intervention. Eg- transported to government hospital, transported to private hospital, patient attended to at location - no hospitalisation, patient already moved when location is reached, etc.

medicineUSED: medicine used to treat patient

materialUSED: material used to treat patient. Eg- surgical gloves, face mask, bandage etc.

Service fee: cost of service provided by staff based on time spent on case.

Suggested Invoice format

1990 Suwa Seriya Foundation

FOR INFORMATION ONLY
NO PAYMENT REQUIRED

Ambulance ID:

Medical Technician ID:
Pilot ID:

Date:
Time:

Emergency type:

Cost of service:

Distance travelled	Rs. Xxxxxx
Medicines used	Rs. Xxxxxx
Material used	Rs. Xxxxxx
Service fees	Rs. Xxxxxx
	—————
Total cost	Rs. Xxxxxx

NO PAYMENT REQUIRED

Please note that this Ambulance
service is provided free of charge,
the invoice is given to inform the
cost to the public

If you wish you can donate to the
1990 Suwaseriya Fund through
following mechanisms
1) Deposit in Bank Account
   <account #>, <bank name>,
   <branch name>
2) Visiting <URL>