NORTH SOUTH UNIVERSITY

Department of Electrical and Computer Engineering

CSE327

Project Software Requirements Specification

Project Title: **Emergency Ambulance Service App**

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1. Introduction:

People feel confined and terrified in the present period for the threats of traffic accidents. Some known and undiscovered endemics that required immediate treatment are being delayed in Bangladesh. Consequently, every country's patient rescue system should be maintained and well-trained in order to ensure the prosperity of human beings and to prevent deaths caused by delays in relief efforts. As a result, our first priority is to enhance the ambulance service system by developing an Android application to aid in the relief process. Through the ambulance service application, it will allow all of the rescue centers to be on one staging area.

1.1 Purpose:

The main purpose of this app is to provide emergency ambulance through one-click. It will provide a user-friendly place. In the modern technology, there is successful dynamic platform that provides on-demand transportation. However, we can't observe any efficacious app available for phone users in Bangladesh, which helps them to apply for an ambulance.

1.2 Intended Audience:

Though the app can be used for all general people but the main intended audiences are the those who are in need of an emergency ambulance to save a life.

1.3 Intended Use:

The app will be used for taking emergency patients to the nearby hospitals as fast as possible through confirming a request for ambulance.

1.4 Product Scope:

This app is basically open source online emergency ambulance service. With this app, anyone can look-up or call for an ambulance in emergency. This app has no central management office so this app will run in all cities. Advancement to introduce open source app will increase its market value.

1.5 Risk Definitions:

The risk can be occurred when a person will falsely call an ambulance. This is like a false alarm. In this case, if the driver arrives there, he/she has to pay the fee otherwise he/she will be reported.

2. Overall Description:

This app is to provide emergency ambulance through one-click. This product is completely a new product.

This app contains with a signup page (for new users), a login page (for existing users) and also a forgot password page to reset his/her password. After successfully login/signup, the user will go to the home page where the system will ask him/her to set his/her pick-up location. Then the system will search for nearby hospitals. After that the system will show a list of the nearest hospitals. From that list, the user can select a hospital and then the system will ask him/her to confirm the location. After confirming the location, the system will show the available ambulance with the fee. Following that, the system will show a map where the distance from pick-up location to hospital location will be visible, also the ambulance fee, estimated time and there will be an option for selecting the payment method (on cash/bkash) and also the system will ask him/her for confirming the ride. If the user confirms the ride, then the map will show the live location of the driver, driver's info with name and contact no to call the driver, the

ride info including pick-up location, destination and ambulance fee. Also, there will be an option for cancelling the ride if he/she wants. If the user cancels the ride, he will go back to the home page.

Why are we building it?

In an emergency, manually arranging an ambulance can waste valuable time and deteriorate victim's state as it is a time-consuming process. The technology proposed here would allow users to quickly and simply book an ambulance through an one clicks application.

Who it's for?

It's for those who are in need of an emergency ambulance to save a life.

2.1 User Classes and Characteristics:

User who are in need of an emergency ambulance to take his patient to the nearby hospital.

2.2 User Needs:

Our users are general people specially who are in need of an emergency ambulance. Users will be able to create their accounts and use this app for calling an ambulance in emergence. User can set up their pick-up location so that the ambulance can arrive there. User can select a hospital where he/she wants his/her patient to get treated. User will be able to see the estimated time to get there and if it takes a long time to get there, he/she may not confirm the ride. Also, after confirming, the user can cancel the ride.

2.3 Operating Environment:

- Ability to connect to the Wi-Fi or mobile network.

• Device must have android version.

• The app will be developed using android studio.

• Ability to take input from user.

• Functional on android only.

2.4 Constraints:

• For login, email and password must be valid.

• For sign up, details must be provided accordingly by user.

• Without internet, the app will not work.

• Android version must be needed.

• The app will not work on iOS devices.

2.5 Assumptions:

• Each user must have an email and password.

• Users must signup/login to the system to call any ambulance.

3. Requirements

3.1 Functional Requirements:

- Both drivers and riders should be able to continuously send out their current location
- Search result should allow riders to see the nearby hospitals
- Riders should be able to request an ambulance. They should also be able to cancel an ambulance after requesting but before boarding it.
- We should be able to save the trip information.

3.2 Non-Functional Requirements:

- The system should be reliable. It should always be up and running.
- The system should have high performance.