**JOSEPH MUMO MBETU**

**SCCI/02052/2017**

**SYSTEMS DEVELOPMENT LABORATORY**

**PROJECT SCOPE**

1. **Project Background and Description**

The Kenyan roads have been a major point of deaths, injuries and loses. Every day the National Transport and Safety Authority (NTSA) records new cases of road accidents, their places of occurrence, their severity and losses associated (including life and property). They therefore give report of the same annually. Some cases end up being reported late or never especially where police are not notified. There is therefore a need to automate the reporting system to be done by general public to NTSA then NTSA to contact police for verification. The automation of the reporting will: -

* Reduce time taken to report an accident to NTSA after occurrence.
* Improve accuracy of the points of occurrence of the accidents.
* Provide the public with an all-time accessible database recording all cases, so they gauge how secure a road is before using it.

1. **Project Scope**

The project described above will be achieved by implementing a 3-tier cross-platform mobile application that can be installed and used to captured the instances in real-time over the internet. The Application will include the following modules to implement the functionalities: -

* 1. **Membership Module**
* Allow new users to self-onboard
* Management of users with regards to laws and ethics of the land
* Member deregistration by admins
* Membership alerts
* Access and modification of profiles
  1. **Incidents Module**
* Report a new incident
* View occurred incidents
  1. **Alerts Module**

Alerts will mainly be done through

* SMS
* Emails

The alerts will include: -

* Successful registration
* Account verification
* Report that an incident the user reported has been verified by police and/or other government administrative officers
* A misuse of the application by lying
* Warning before being barred from using the application
  1. **Reports**

A range of reports will be generated from the application including: -

* List of users
* Accident cases per road
* Rating of each road

1. **High-Level Requirements**

This is a mobile application. The following requirements have to be met to use it.

* Possession of a smartphone running any operating system
* Ability to access the internet
* The user will have to download the application and install it.

1. **Deliverables**

* A cross platform mobile application
* A hosted backend software
* User manual
* Technical documentation

1. **Affected Parties**

* General public
* National Transport Safety Authority
* The Kenya Police Service (Traffic)
* Government Administrative officers (Central Government)

1. **Affected Business Processes or Systems**

* Reporting of incidents
* Verification of the occurrence
* Announcement of incidents to public

1. **Specific Exclusions from Scope**

The following will be excluded from scope during this version of application. They may however be included on later versions

* Integration with current NTSA accidents database
* The verification process of the reported incidents
* The next steps after the accident

1. **Implementation Plan**

The project will kick off after the approval of the one pager document.

This will start by creation of UI prototypes which will be also be submitted for marking and approval.

Once the prototypes are approved the modules will then be developed, one at a time starting with membership module to reports module.

Commissioning of the application will then follow under testing bases, then it will fully be deployed after it has passed all tests and the relevant refining done. The application will then be uploaded to Google’s Playstore and Apple’s Appstore.

1. **High-Level Timeline/Schedule**

This project will be done in ten weeks as follows

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Date | Description | Comments |
| 1 | 12/09/2022 – 19/09/2022 | Project and Requirement Specifications |  |
| 2 | 19/09/2022 – 26/09/2022 | Adjustments of Requirements specification documents as per lecturers’ comments  UI Prototype/Wireframe |  |
| 3 | 26/09/2022 – 03/10/2022 | Refining of wireframes if need be |  |
| 4 | 03/10/2022– 10/10/2022 | Membership Module Implementation |  |
| 5 | 10/10/2022– 17/10/2022 | Incidents Module Implementation |  |
| 6 | 17/10/2022– 24/10/2022 | Alerts Module implementation |  |
| 7 | 24/10/2022– 31/10/2022 | Reports Module Implementation |  |
| 8 | 31/10/2022 – 07/11/2022 | Application Testing |  |
| 9 | 07/11/2022 – 14/11/2022 | Refining Modules for Excellent performance |  |
| 10 | 14/11/2022 – 21/11/2022 | Documentation  Deployment |  |

Table 1: Project Schedule

**Chart 1: Gannt chart**

**APPROVAL AND AUTHORITY TO PROCEED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Name | Comments | Signature | Date |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Table 2: Approval and authority to continue