1. **Report No.1 Introduction**
2. **Project Information**
3. **Introduction**

Nowadays, within the strong development of presently economy, time is always the one of priority in all areas. In particularly, when participating in traffic, how to route through more than two points as fast as possible in other that you can save your time. Presently, most of an application on market are not support on routing through two points. For example, Google Map Application and BusMap just support on routing through two points at most so that they cannot help you to save time if you want to route through two points. Besides that, both app’s user interface above is less convenient to use on smartphone.

Facing above problem, our team build the application named is Smart Wear on Your Route. In our application, we allow user route through more than two points. Within this improving on routing, user will find the shortest path pass more two points. Thus, user will save more time when user participating in traffic. Furthermore, we provide some feature to help user interact more easily with our application.

In additional, we also provide system software on website for staff to manage bus route, bus time information and the change from background handler.

1. **Current Situation**
2. **Problem Definition**
3. **Proposed Solution**
4. **Functional Requirements**

Web Component: (for staff only)

1. Edit bus route and bus time information.
2. Approve bus route and bus time change from background handler and write to official database.

Parser Component:

1. Parse bus route information.
2. Parse bus timetable information.
3. Periodically detect change from official bus website and write to temporary database.

Mobile Component:

1. Synchronize data from server to mobile.
2. Find optimize path between two point when using bus.
3. Find optimize path between two point when using motorbike.
4. Find optimize path between four points when using bus.
5. Find optimize path between four points when using motorbike.
6. Send data change from mobile to wear.

Wear Component

1. Receiving data from mobile.
2. Notify when user nearly leave bus.
3. Notify route when going by motorbike
4. Show current location map.

Bus Driver Component

1. **Role and Responsibility**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Full Name | Role | Position | Contact |
| 1 | Kiều Trọng Khánh | Project Manager | Supervisor | [khanhkt@fpt.edu.vn](mailto:khanhkt@fpt.edu.vn) |
| 2 | Huỳnh Quang Thảo | Developer | Leader | huynhquangthao@gmail.com |
|  |  |  |  |  |
| 3 | Nguyễn Trung Nam | Developer | Member | namntse61132@fpt.edu.vn |
|  |  |  |  |  |
| 4 | Trần Thanh Ngoan | Developer | Member | ngoanttse61125@fpt.edu.vn |
|  |  |  |  |  |
| 5 | Ngô Tiến Đạt | Developer | Member | datntse60980@fpt.edu.vn |

**Table 2: Roles and Responsibilities**