# Introduction

## Project Information

* Project name: **Group Travel Assistant**
* Project Code: **EERS**
* Product Type: **Mobile application**
* Start Date: **18 May 2020**
* End Date: **21 August 2020**

## Introduction

In this document, we will be building system support group travel self-sufficiency for the planning, execution, summary ,and finalize. The system will calculate and suggest day-by-day travel plans, users will rely on the existing day-by-day plans or modify from the suggested for the whole trip, the application will manage your schedule through notifications about flight schedules, hotel check-in, and check-out. Uses can have management of expenses during the trip such as paying for taxis, eating, shopping, and then knowing who owes who much to pay back the money among the members.

## Current Situation

At present, there are some methods for group travel:

* Plan your own trip: to have a convenient trip, you must plan before traveling, such as choose places to eat, accommodation, entertainment spots in the place you want to go.
* Traveling according to the tour already available plan: is a popular form of tourism today, it includes many services, available schedules for the trip.
* Use a message to send the plan: a representative will send the trip plan to team members.
* Use notes to manage expenses in the group: After paying the expenses for the trip, those expenses will be recorded so you can remember who you pay for.

## Problem Definition

These current situations have some following advantages and disadvantages:

* + Advantages:
    - Seft-planning helps master the schedule and time.
    - Traveling according to tour helps you save time, not worry about schedule.
    - Safety and insurance
    - Everyone on the trip wil receive a schedule and plan via message.
    - You can review what you spend on the trip.
  + Disadvantages:
  + Have a lot of knowledge about choosing destination on a trip.
  + Need to research the place you want to travel
  + Tour travel is often restricted in time, loss of freedom.
  + There are disagreements about views with people you don't know.
  + Share your gadget with a lot of people.
  + There are places you won't like.
  + The message may be missed.
  + There are no specific schedule reminder reminders.
  + No transparency in payment process with each other at the end of the trip.

## Proposed Solution

Our proposed solution is to build applications for group travel assistant. It will calculate and suggest a day-by-day plan, users in a group can create their day-by-day plan or modify from the suggested one, support voting, notification of events, expense noting for individual or group sharing, suggest the optimized for the money payback between members of a group.

### Feature functions

* Create a group and invite other users
* User can suggest a place of interest and activities in each city/place
* Suggest day-by-day plan
* Document/booking tracking
* Remind of upcoming events
* Finalize the group expense

### Values and challenges

* + Values:
    - The system suggests day by day plan helps visitors to schedule themselves, save 90% of the time, optimize costs, and enjoy the full trip.
    - The system also has support features such as modify from the suggested, inviting friends to join the group.
    - Quản lý lịch trình và quản lý chi tiêu
  + Challenges:
    - Unable to provide 100% accuracy due to the limitation of suggesting algorithms.
    - This is a support tool, it cannot replace completely the role of the planner.

## Functional Requirements

Functional requirements of the system are listed below:

* System:
* Calculate and suggest a day-by-day plan
* Group admin
* Create a group and invite other users
* User in the group:
* Can review
* modify from the suggested
* Support voting
* Input the expense used for a trip

## Role and Responsibility

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Full Name** | **Position** | **Contact** |
| 1 | Nguyễn Phan Quang Nhật | Supervisor | [nhatnqp3@fe.edu.vn](mailto:nhatnqp3@fe.edu.vn) |
| 2 | Nguyễn Tiến Thiên | Leader | [thienntse62804@fpt.edu.vn](mailto:thienntse62804@fpt.edu.vn) |
| 3 | Nguyễn Văn Dương | Member | [duongnvse62382@fpt.edu.vn](mailto:duongnvse62382@fpt.edu.vn) |
| 4 | Lê Hoài Ân | Member | [anlhse61557@fpt.edu.vn](mailto:anlhse61557@fpt.edu.vn) |
| 5 | Đỗ Trần Nhật Duy | Member | duydtn62826@fpt.edu.vn |

1. Roles and Responsibilities