# 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.

In this document, we are building system support planning, execution, summary, and finalize when people travel. Users can use the suggested plan from the system or they can build a new one. From that plan, users can manage flight schedules, hotel check-in, check-out then the system should notify users about the schedule. Users can also track their budget and the expenses share between users then the system can suggest the optimal payback flow.

## Current Situation

At present, there are some methods for group travel:

* Plan your trip: People make the plan by themselves to fit with everyone in the travel group, such as choose places to eat, accommodation, entertainment spots in the place you want to go.
* Travel with existing tours: This is a popular form of tourism today, it includes many services, tourists follow the schedule that already defined in advance.
* Use messages to send the plan: A representative will send the trip plan to team members via messages.
* Use notes to manage expenses in the group: After paying the expenses for the trip, those expenses will be recorded in notes to remind who you pay for.

## Problem Definition

These current situations have some following advantages and disadvantages:

* + Advantages:
    - Self-planning helps understand the schedule and time.
    - Traveling according to the tour helps you save time, not worry about the schedule.
    - Safety and insurance included.
    - You can review what you spend on the trip.
  + Disadvantages:
  + Tour travel is often not flexible in time and tourist attractions, loss of freedom.
  + The message may be missed.
  + No transparency in the payment process with each other at the end of the trip.
  + Self-sufficient travel requires a lot of experience to choose the suitable plan on a trip.
  + Lacking centralize tool for planning, hard to track the updates in the plan.

## 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 and allows visitors to modify it by themselves. This leads to saving time when planning, optimizing costs, and enjoy the full trip with desire place of interest.
    - Provide a mobile app for users to tracking their plan, and synchronized with other users when update.
    - Notify next events in plan.
    - Provide optimized flow for the money payback between members of a group.
  + 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** |
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1. Roles and Responsibilities