REQUIREMENTS ANALISYS

1. TRIP PLANNING SYSTEM
2. CHAT
3. NEWS FEED

INTRODUCTION

Our goal is to create an application that will assist travelers on their journeys. The main components include a trip planning system, the possibility to chat with fellow travelers with similar interests based on a matching algorithm and other social platforms specific functionalities.

TRIP PLANNING SYSTEM

For the trip planning system the user must complete a travel itinerary which includes several locations and based on their input and personal profile (which includes interests and age, gender etc.) our system will generate a list of attractions. The user has the option to select only the attractions which he/she is interested in and also to add new ones which are not on the list. After all the details are planned our application will notify the user a couple of days before the starting day with useful information (weather, events, other people having similar travel plans). This feature relies on the Collaborative Filtering and Content Based Algorithm.

CHAT

Using our app the user will be able to interact with other people who are in his/her proximity and share similar interests or travel destinations. The matching will be performed using a scoring functionality inherited from the Content Based Algorithm. This user will be able to choose if he/she wants to connect with others and to provide the current location.

NEWS FEED

The news feed will include different announcements from booking providers, convenient offers filtered by the user’s interests.

ARCHITECTURE

Our system will be available on both web and Android, the first one having less features available (tracking itinerary). Both applications will send requests to a core module developed in Java. Its main features will be to communicate with the database, to expose all the implemented services in a RESTful way and also to execute different CRON jobs.

A nice to have feature will include the deployment of the core module on a cloud environment. This will add a load balancing mechanism (vertical or horizontal, depending on the cloud provider), making our application easy to scale, with a high availability.