**2. Overall Description**

* **Product perspective:**

The product we will provide is an application distributed for any kind of device that supports Android as operative system. This application will immediately be useble as soon as you install it on a device.

It will not have any internal interface for administration but it will be only user based.

(UML e stateCharts)

* **Product functions:**

This application aims to provide a smart calendar, which schedules the best organization, taking account of your personal appointments, which you inserted in the calendar. The computed schedule depends on some preferences that you filled out and you can modify them when you want.

* **User characteristics:**

We recommend the application to a persona who wants to organize easily his time in the best way. He will be able to benefit from this service in a very simple way because Travlendar+ requires only basic knowledge of a simple calendar. After registering an account, the application is ready to handle his commitments, so scheduling the best organization.

* **Domain Assumption and** 
  + For any day user can create unlimited number of events.
  + User has only one calendar
  + There isn’t any dependence between users
  + User can choose among some alternative travel proposals
  + If an event is overlapping another one, the user must select a choice from the choices proposed
  + User can delete an event
  + User can modify an event already created
  + User can change the scheduling proposed
  + User can select in which preferences the scheduling based on
  + Notification of best proposal will be shown
  + Notification of any problem that occurs will be shown
* **Constrains:**

Travlender+ requires:

* + Internet connection enabled on own device
  + GPS available on own device
  + Login during the first access
  + Initially registration with an account
  + Android device
  + Milano as the default city
  + 30 Mb(?) of storage memory available on own devise to be installed
  1. Functional Requirements

1. [G1] Allow a guest to register a Travlendar account.
   * The system must require a valid email address and password or a connection to an existing Facebook / Google account;
   * The system must check that the provided email is not already in use.
2. [G2] Allow an User to log in into Travlendar+ system
   * System must be able to check the data provided by the user.
   * [R2]System must let the user log in only if data provided are correct.
3. [G3] Allow an User to insert or modify personal information
   * User have to fill out his personal information
   * User can modify his information
4. [G4] Allow an User to create an appointment
   * The system must provide the user with an overview of his calendar and the user must be able to select a specific day.
   * The user must be able to provide place and time of the appointment.
   * The system must check that all required fields are filled out.
   * The system must check if the appointment overlap with other events and must eventually notify it to the user.
   * The user must be able to specify the amount of time required by the appointment.
   * The user must be able to select place
5. [G5] Allow an User to modify an appointment
6. [G6] Allow an User to delete an appointment

[G8] Allow an User to manage preferences