

# RASD

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FEDERICO BETTI – TOMMASO BIANCHI

# Product Functions

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## TRAVEL

- Meeting-meeting or default location-meeting
- Biking, Driving, Walking, Public Transportation
- Preference list
- Constraint
- Real-time indications

## MEETING

- Title, date and location
- Administrators
- Accept, decline or reschedule the invitation
- Chat, upload files and notes
- Categories and subcategories
- Instant Meetings

# User Characteristics

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## USER

- Login
- Create Meeting
- Calendar
- Groups and Contacts

## ADMINISTRATOR

- Manage Meeting
- Invite/Remove Users
- Recreate Meeting
- Monitor Participants Delays

## GUEST

- Registration

## SYSTEM MANAGER

- Travlendar+ employee

# Goals

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- G1 Allow someone to visit the homepage of the system and to register himself providing a valid email, a password and a unique nickname. As an alternative, an external login provider, such as Google+, can be used.
- G2 Users can log into the system.
- G3 Allow a user to visit its profile and to see a detailed schedule of any day containing all the meetings he is attending and all the travels the system has planned him.
- G4 Allow a user to edit all information in its profile (e.g. displayed name, phone number, company, website, social accounts).
- G5 Allow a user to create a meeting and to invite other users to attend it.
- G6 Create a warning each time it is not possible to reach a meeting location from the previous one in time.
- G7 Allow a user to specify flexible breaks during the day.
- G8 Manage users' travels between subsequent meetings, suggesting the best mobility option according to their preference list.

# Goals

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# Allow a user to create a meeting

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- G5.1 Allow the administrator to categorize the meeting.
- G5.2 Allow the administrator to change title, abstract and location of the meeting.
- G5.3 Allow the administrator to nominate other administrators.
- G5.4 Allow the administrator to send invitations and remove participants.
- G5.5 Allow the team to communicate between them, to share files and to save personal notes about the meeting.
- G5.6 Allow the invited users to accept or decline the meeting or to propose a rescheduling in a different time slot.
- G5.7 Allow the administrator to change the date of the meeting after a rescheduling has been proposed.
- G5.8 Allow the administrator to poll the team to reschedule the meeting; if everyone accepts the rescheduling, the date changes.
- G5.9 Allow the administrator to create a copy of a meeting with the same team and settings on another date.
- G5.10 Allow the administrator to see who's late at the meeting.

# Allow a user to create a meeting

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- [R5] A user must be logged into the system to perform any action except registering and logging in.
- [R11] Each meeting has at least two participants.
- [R12] Each meeting has at least one administrator.
- [R13] Each meeting has a title, a date and a location.
- [R14] Each participant in a meeting can access shared files and the chat.
- [R15] Users participate in a meeting if and only if they accept the invitation.
- [R16] Users do not participate in a meeting if they decline the invitation.
- [R17] Users can write in the chat of a meeting if and only if they have received and accepted an invitation to it.

# Allow a user to specify flexible breaks

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- [R5] A user must be logged into the system to perform any action except registering and logging in.
- [R18] The system suggests you a time, according to your settings, to have a break such that no meeting overlaps with it; if no time slot is valid, a warning is generated.
- [D6] Users can take a break everywhere.



# Manage users' travels

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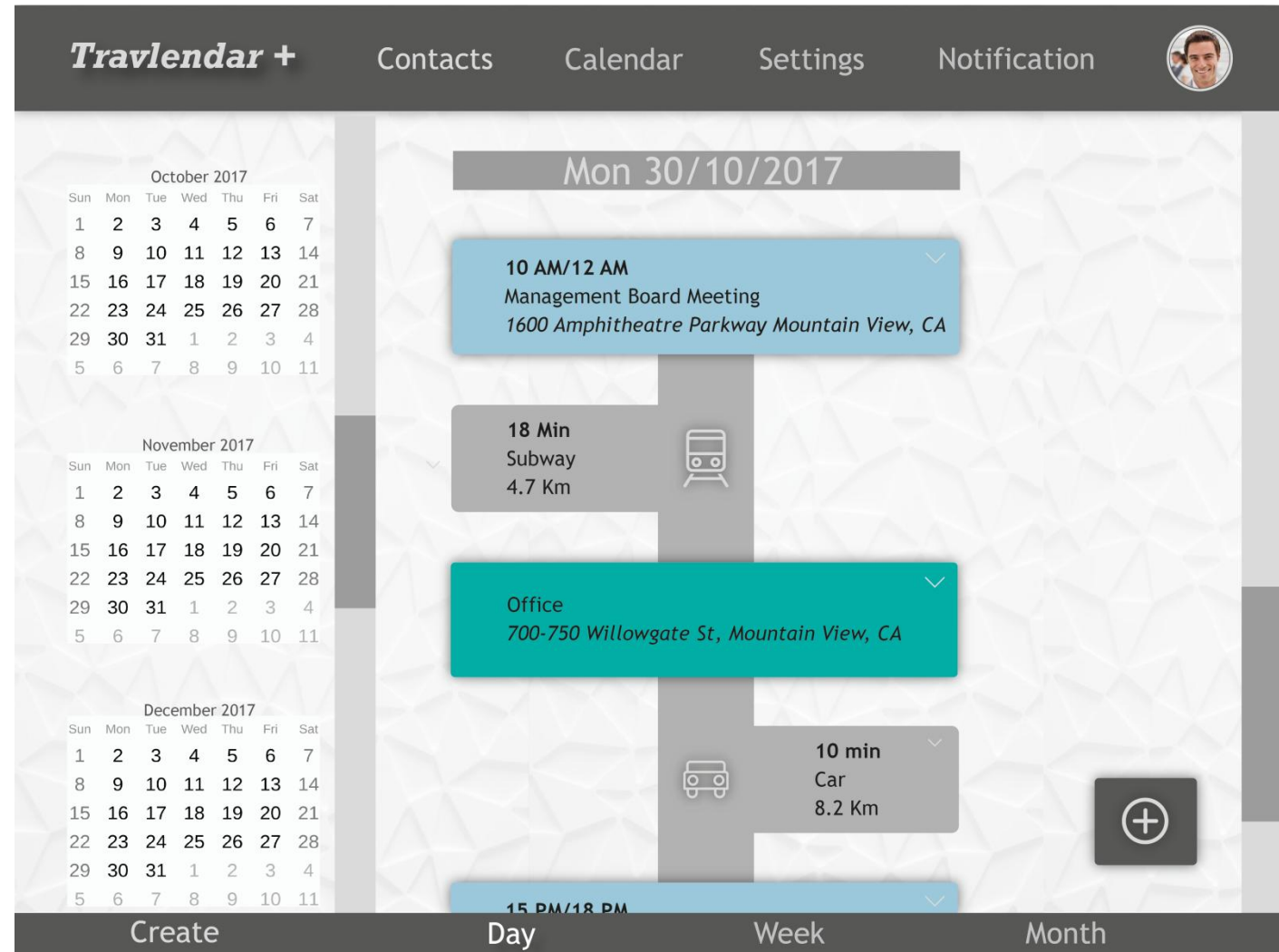
- G8.I Allow a user to create a preference list and constraints about the way he wants to travel.
- [R5] A user must be logged into the system to perform any action except registering and logging in.
- [R19] At least one travel mean is available in the preference list.
- [R20] The travel mean suggested by the system is always the first in the weighted preference list that satisfied all the constraints; if no travel mean satisfied all the constraints than the system suggests the fastest one.

# Manage users' travels

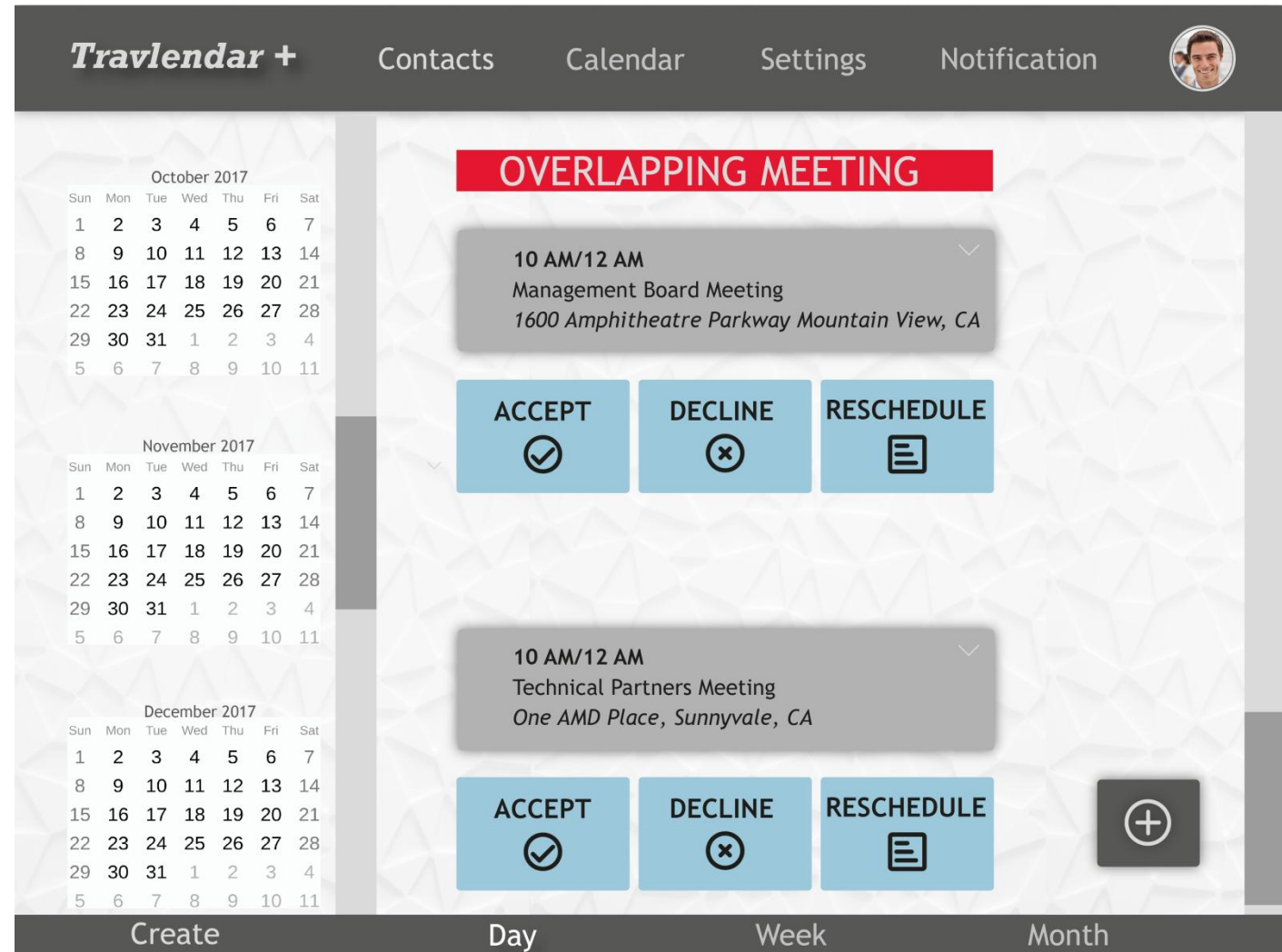
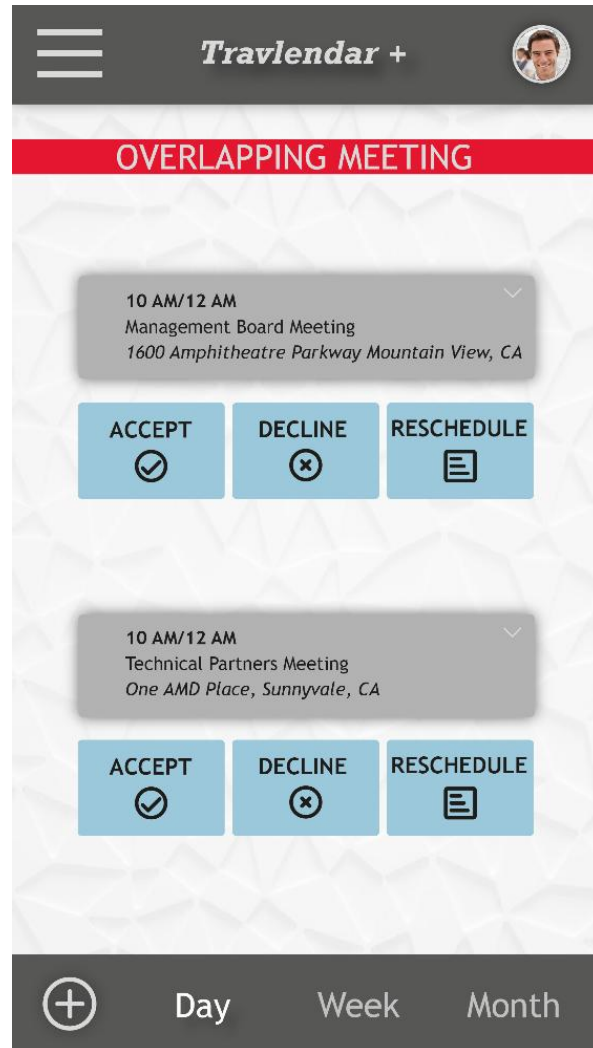
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- [D5] Each user has at least one default location.
- [D7] Each user has a preference list.
- [D8] All users always have a position.
- [D9] External shortest path provider is always able to retrieve a path between any two locations.
- [D10] Each user is always able to communicate with our servers.
- [D11] The system does not differentiate between a travel mean that is shared and one that is owned.
- [D12] The system treats the taxis as a driving travel mean and not as public transportation.
- [D13] If a user accepts the invitation to a meeting, then he really attends to it.

# Mockup - Calendar

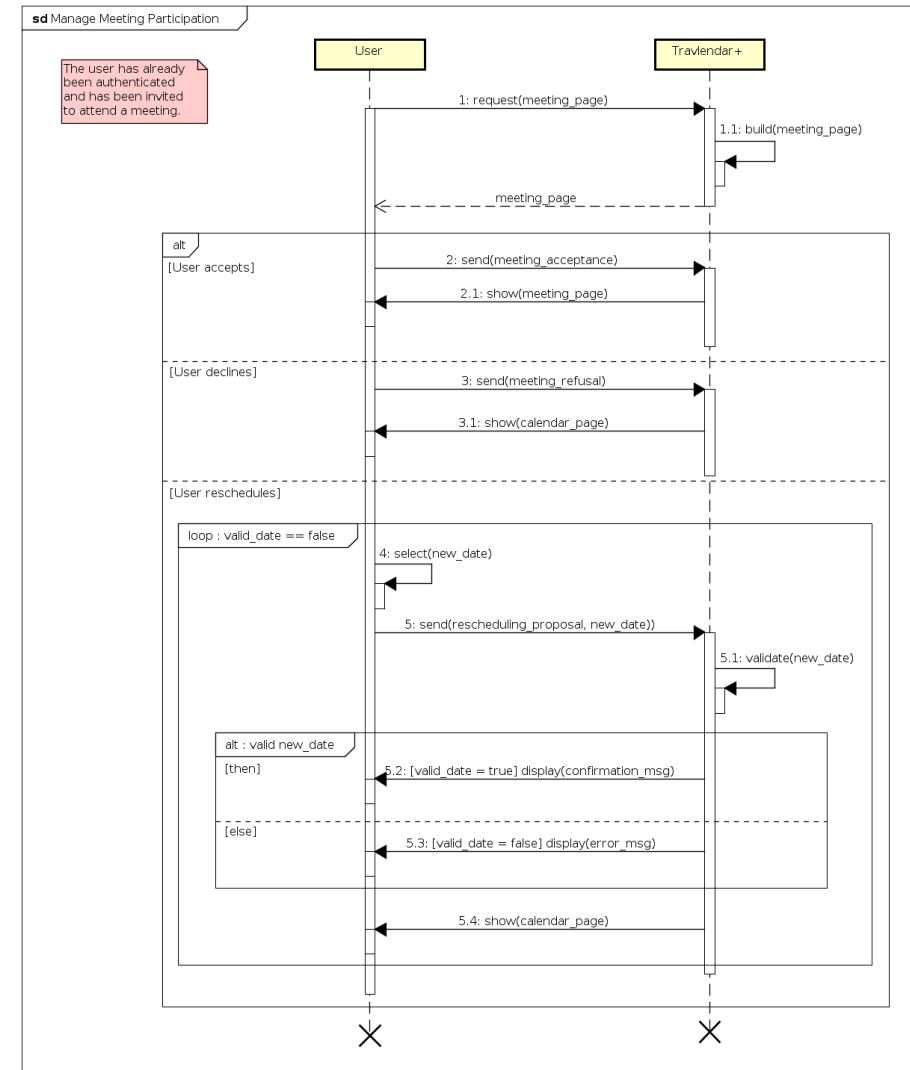


# Mockup - Warning

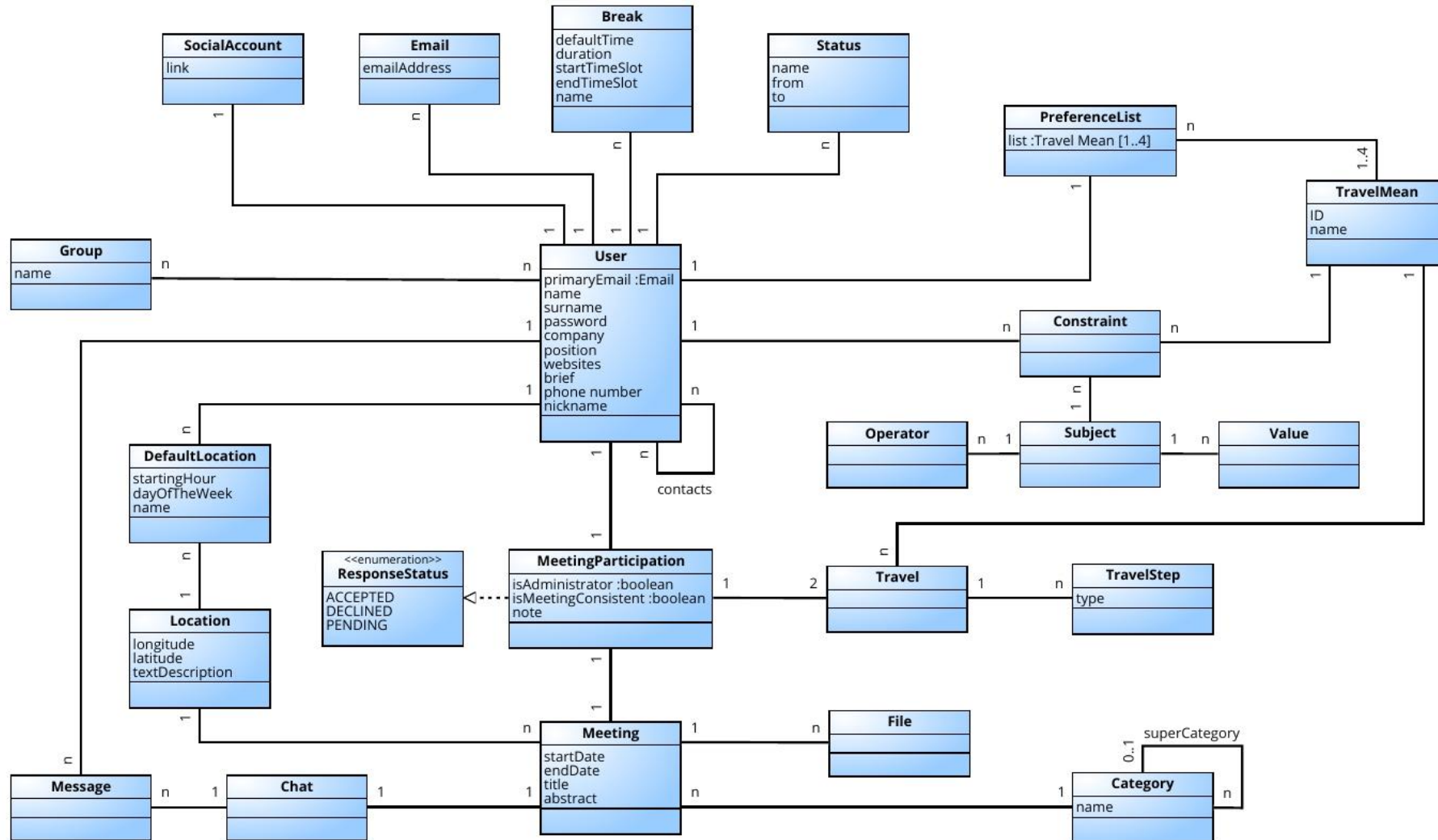


# Manage Meeting Participation

<b>Actors</b>	User
<b>Goals</b>	G5.6
<b>Input Conditions</b>	The user has already been authenticated by the system and has been invited to attend a meeting.
<b>Events Flow</b>	<ol style="list-style-type: none"> <li>1. The user selects a meeting it wants to manage by clicking on it in the "Calendar" page.</li> <li>2. The system displays all the information about the selected meeting, such as the title, the date, the location and the other invited users.</li> <li>3. The user clicks on the "Accept", "Decline" or "Reschedule" button.</li> <li>4. In the latter case, the user selects a new proposed start date.</li> </ol>
<b>Output Conditions</b>	The acceptance, refusal or rescheduling proposal of the meeting is recorded by the system. In the latter case, it is forwarded to the meeting administrator.
<b>Exceptions</b>	The user selects an invalid start date (e.g. a date which is in the past). The system shows the user a message reporting the errors and wait for a new date to be inserted.



# Class Diagram



# Alloy Metamodel

